Since the second state of the second state of

In partnership with







"I have never felt salvation in nature. I love cities above all."

"The mark of a great city isn't how it treats its special places -everybody does that right-but how it treats its ordinary ones."

Michelangelo

Aaron M. Renn (The Urban State of Mind: Meditations on the City)

Introduction A New Beginning: A More Precise, Relevant and Impactful Smart City Index



Introduction: A More Precise, Relevant and Impactful Smart City Index

Welcome to the 2023 edition of the IMD Smart City Index Report (SCI Report).

This edition marks a significant step in the history of this report, which has now acquired global recognition and respect. After a break in 2022, three major changes have been brought to the Index and accompanying report.

1	The World Smart Sustainable Cities Organization (WeGO) has joined us as a knowledge partner;
2	The number of cities in the SCI has significantly increased; and
3	The SCI's methodology has been improved thanks to the acquisition of new data.

Each of these changes has significant consequences. They make us even more enthusiastic about the impact and relevance of the Index, and about its future. Here's why:

A New Knowledge Partner

WeGO The World Smart Sustainable Cities Organization (WeGO), is a membership-based international association of local governments, smart tech solution providers, and institutions committed to the transformation of cities into smart, sustainable cities through facilitating public-private partnerships (PPP). It was founded by 50 member cities in 2010 as the World e-Governments Organization, hence the acronym. However, as the concept of "smart cities" continued evolving, during the 4th General Assembly (2017) WeGO expanded its mandate and changed its name to the World Smart Sustainable Cities Organization.

For its members, WeGO serves as an international platform to improve the quality of life, innovate in the delivery of public services, and strengthen regional competitiveness. The WeGO network currently includes over 200 cities, 26 are covered by this edition of the SCI index and report. Organization, hence the acronym. However, as the concept of "smart cities" continued evolving, during the 4th General Assembly (2017) WeGO expanded its mandate and changed its name to the World Smart Sustainable Cities Organization.

From 118 to 141 Cities

The coverage of the SCI and SCI Report has increased by 20 per cent to include 141 cities (previously 118 were measured), distributed across the world. This reflects the SCI's ongoing efforts to be a global index, and to facilitate the benchmarking of all kinds of cities, whatever their size or level of development. This year, we have made a concerted effort to include more capital cities from all continents, while keeping an eye on 'second-tier cities' showing signs of dynamism, and an appetite for designing and implementing innovative solutions to their key problems.

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The SCI's methodology has been improved thanks to the acquisition of new data at the city level.

The SCI was designed as a tool for action. Since it is based on people's perceptions (surveys), it is critically important that the answers collected are calibrated to the specific context of the cities studied.

For the 2021 Index and all prior editions, we relied on country-level Human Development Index (HDI) data provided by the United Nations Development Programme (UNDP). Throughout the course of 2022, we explored the possibility of using city-level HDI data that could provide a more granular (and realistic) vision of the socio-economic environment of specific cities. The new SCI methodology is described in detail below. We believe that time invested in furthering our methodological approach was incredibly well spent and are excited by the applicability of the results obtained.



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> The SCI's value rests greatly on its ability to generate time 畾 series, and this is where citizens and decision makers can track the evolution of their city's performance over time, and compare it with that of other cities around the world. It follows that deciding to change an index's methodology isn't easy and often comes at the cost of breaking the continuity necessary to build such a series. We are proud to announce that in the case of the SCI, we have been able to not only improve the methodology but also to preserve our users' ability to work on time series. We did so by 'building back' the data and rankings that would have been those of the cities covered if the new methodology had been applied at the time. This means that the rankings of the SCI 2023 should not be compared to those published in previous SCI reports as they are the result of different approaches. However, comparisons across time can be made and used with recourse to the tables included in this report that reflect the 2019-2023 rankings of the cities covered using the most recent methodology. See pages 39-40 of this report.

Against the background of these three significant changes, what key messages emerge from this revamped 2023 Index and Report? They can be summarized as follows:

2

The global landscape of smart cities is changing, and lessons can be learned from the experience of "SCI champions"-the top 20.

Globally, a new world is shaping up, and **changes at the city level are a precious indicator** of what the future may hold.

Introduction: A More Precise, Relevant and Impactful Smart City Index

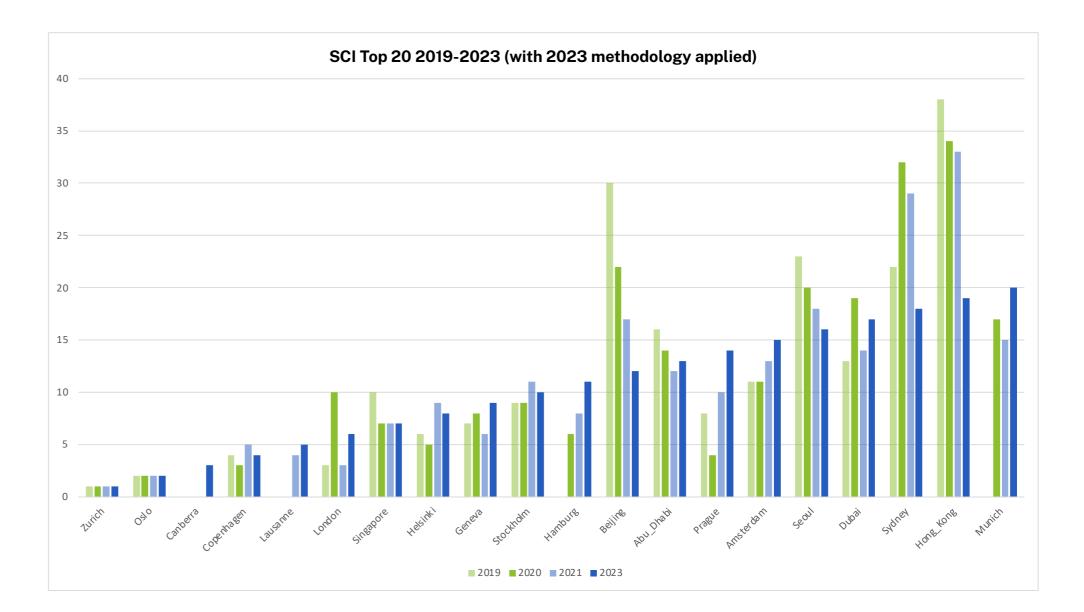
Lessons from the champions: who is in the top 20, and how did they do it?

In 2023, the upper echelons of the SCI comprise the 20 cities in the table below. Rankings prior to 2023 have been adjusted according to the new methodology for the purposes of homogeneity and to allow comparison.

City	Rank 2023	Rank 2021	Rank 2020	Rank 2019
Zurich	1	1	1	1
Oslo	2	2	2	2
Canberra	3			
Copenhagen	4	5	3	4
Lausanne	5	4		_
London	6	3	10	3
Singapore	7	7	7	10
Helsinki	8	9	5	6
Geneva	9	6	8	7
Stockholm	10	11	9	9
Hamburg	11	8	6	_
Beijing	12	17	22	30
Abu Dhabi	13	12	14	16
Prague	14	10	4	8
Amsterdam	15	13	11	11
Seoul	16	18	20	23
Dubai	17	14	19	13
Sydney	18	29	32	22
Hong Kong	19	33	34	38

Introduction: A More Precise, Relevant and Impactful Smart City Index

Several observations can be made by analyzing this list. Most strikingly, out of the top 20, 17 cities have been part of the SCI since its creation. Among those 17, six cities show either a continuous improvement or stability, year-upon-year. These 'super-champions' are: Zurich, Oslo, Singapore, Beijing, Seoul, and Hong Kong.)



Introduction: A More Precise, Relevant and Impactful Smart City Index

A New World is Shaping Up. Cities Tell Us Where to Look

- 1. Asia and Europe ahead of the pack? Apart from Abu Dhabi and Dubai, all of the cities occupying the top 20 are either in Europe or in Asia-Pacific. The absence of American or African cities is notable. New York ranks 22nd while Cairo (108th) is the leading African city. Medellin (118th) is the leading South American one. The 2023 rankings reflect a growing interest and higher levels of concern about the quality of life that residents are expecting to enjoy in their respective cities. Size is often a handicap rather than an advantage in this regard. This explains why most large metropolises such as Boston (34th) or Paris (46th) rank relatively low in the index, in spite of remarkable progress in a number of key areas such as sustainability and mobility.
- 2. 'Second tier' cities continue to do better than the rest. Although the SCI's top 20 include 12 capital cities (such as Oslo and Canberra), and several 'economic capitals' (like Zurich and Dubai), the picture is different when one looks at the top half of the rankings (1 to 70); a significant number of mediumsized cities show both solid positions and a continuous ability to move up. In Europe, this is the case for Lausanne, Munich and Bilbao, for example, and elsewhere in the world it rings true for Montreal, Mecca and Denver.
- 3. Smart city strategies are undergoing deep changes. The basic principle that led to the creation of the Smart City Index in 2019 was that if cities wanted to be smarter, they needed to be less technology-centric, and more human-focused. Since then, this way of conceiving the nature and purpose of smart cities has moved closer to being mainstream. Many city officials are now routinely using a variety of different expressions in lieu of 'smart cities': 'open and innovative cities',' inclusive and diverse cities', 'sustainable cities' and 'citizencentric cities' are becoming part of the new labelling of 'smart cities' that were. But this is not merely a semantic change; it reflects deep changes in the way smart cities (and cities in general) will be designed and managed. Thanks to its initial design and philosophy, the Smart City Index is emerging as a critical tool to benchmark progress along those new lines. The SCI's updated methodology will further enhance its relevance as these changes gather momentum.
- 4. Inclusion and diversity are emerging as key benchmarks for success. An increasing number of cities are deploying new efforts to encourage diversity and inclusion as part of their smart strategies, variously linked to strategies to attract or retain talent, or to pre-existing conditions. Higher levels of tolerance for immigrants and minorities are becoming a marker in the 'quality of life' category, and in 'leaving no one behind' - a key phrase in defining the future of smart cities. Moreover, cities continue to accept (and, sometimes, seek) new roles, as central governments strive to become more agile through decentralization. Even at the international level, at a time in which many multilateral efforts seem to be losing momentum at the nation-states level, cities and their leaders are becoming more visible. Openness and inter-city collaboration may very well become key components of the next wave of globalization.

Continuing to Improve the SCI

There are different ways to improve the quality of the SCI. Expanding the number of cities studied will always extend the scope of the index. Employing more focused data will improve the accuracy of the index and allow for a meaningful comparison among different qualities of cities. Finally, fine tuning the construction of the ranking improves its relevance as an action tool, and allows for better comparisons between cities. The 2023 SCI makes advances in all three dimensions.

As flagged earlier, the city coverage of the SCI index and report has increased by almost 20 per cent, bringing the total number of smart cities to 141. Using city-specific data for the construction of the Index was the focus of our research in 2022. In its new design, the SCI employs a city-specific measure of the HDI initially produced by the United Nations Development Program (UNDP).

HDI is a composite index that combines information about life expectancy, expected years of schooling and the mean years of education completed, as well as the per capita income of a country's citizens. Until this year, the SCI used country-level HDI information as a proxy to evaluate the dimensions of health, knowledge and standard of living in each city. The 2023 SCI features city-level HDI, provided by the Global Data Lab. This allows for a more accurate ranking of each city, whilst also allowing readers to compare the performance of any given city to that of the country in which it is found.

Finally, city-level HDI facilitates a more academically rigorous comparison among cities. The 2023 SCI standardizes the performance of a city with the average of the city-HDI and the average of the surveys. This allows for a meaningful classification of a city relative to all other cities covered by the Index.

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The IMD World Competitiveness Center

For over thirty years, the IMD World Competitiveness Center has pioneered research on how countries and companies compete to lay the foundations for sustainable value creation. The competitiveness of nations is probably one of the most significant developments in modern management and IMD is committed to leading the field.

The IMD World Competitiveness Center Team:

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Maryam Zargari **Research Specialist**

Alice Tozer Content Manager

A Series of Tables Showcasing the Results in Different Ways



				Rankings								Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023	Country	Country HDI	City	City HDI	2019	2020	2021	2023
Switzerland	0.962	Zurich	0.989	1	1	1	1	New Zealand	0.937	Wellington	0.958				23
Norway	0.961	Oslo	0.98	2	2	2	2	Australia	0.951	Brisbane	0.944	42	27	40	24
Australia	0.951	Canberra	0.98				3	China	0.768	Shanghai	0.88	37	42	32	25
Denmark	0.948	Copenhagen	0.967	4	3	5	4	Iceland	0.959	Reykjavik	0.959				26
Switzerland	0.962	Lausanne	0.966			4	5	Spain	0.905	Bilbao	0.932	18	25	23	27
United Kingdom	0.929	London	0.973	3	10	3	6	Austria	0.916	Vienna	0.942	12	18	20	28
Singapore	0.939	Singapore	0.939	10	7	7	7	Taiwan	0.916	Taipei City	0.916	24	23	25	29
Finland	0.94	Helsinki	0.96	6	5	9	8	Saudi Arabia	0.875	Riyadh	0.9	55	44	39	30
Switzerland	0.962	Geneva	0.966	7	8	6	9	Australia	0.951	Melbourne	0.948	35	33	36	31
Sweden	0.947	Stockholm	0.972	9	9	11	10	Estonia	0.89	Tallinn	0.932		39	24	32
Germany	0.942	Hamburg	0.972		6	8	11	Germany	0.942	Berlin	0.959	19	21	21	33
China	0.768	Beijing	0.907	30	22	17	12	USA	0.921	Boston	0.949	15	24	22	34
United Arab Emirates	0.911	Abu Dhabi	0.911	16	14	12	13	Belgium	0.937	Brussels	0.953	51	16	45	35
Czech Rep.	0.889	Prague	0.96	8	4	10	14	Sweden	0.947	Gothenburg	0.944	33	43	46	36
Netherlands	0.941	Amsterdam	0.962	11	11	13	15	Spain	0.905	Madrid	0.94	25	30	37	37
Korea South	0.925	Seoul	0.952	23	20	18	16	Germany	0.942	Dusseldorf	0.939	17	37	27	38
United Arab Emirates	0.911	Dubai	0.911	13	19	14	17	USA	0.921	Washington D.C.	0.94	26	13	26	39
Australia	0.951	Sydney	0.952	22	32	29	18	Canada	0.936	Ottawa	0.943				40
Hong Kong	0.949	Hong Kong	0.946	38	34	33	19	Netherlands	0.941	Rotterdam	0.941	40	35	43	41
Germany	0.942	Munich	0.95		17	15	20	Canada	0.936	Vancouver	0.944	20	40	28	42
USA	0.921	New York	0.938	34	12	19	21	Netherlands	0.941	The Hague	0.941	36	38	35	43
New Zealand	0.937	Auckland	0.951	5	15	16	22	Poland	0.876	Warsaw	0.926	14	48	41	44

				Rankings								Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023	Country	Country HDI	City	City HDI	2019	2020	2021	202
Luxembourg	0.93	Luxembourg	0.93				45	China	0.768	Tianjin	0.844	48	45	50	67
France	0.903	Paris	0.949	39	47	49	46	USA	0.921	San Francisco	0.931	28	49	54	68
Slovenia	0.918	Ljubljana	0.953				47	Canada	0.936	Montreal	0.923	50	52	55	69
Canada	0.936	Toronto	0.943	29	46	31	48	China	0.768	Hangzhou	0.801	66	60	63	70
Korea South	0.925	Busan	0.936	45	29	47	49	China	0.768	Guangzhou	0.799	67	64	66	71
USA	0.921	Los Angeles	0.931	44	36	30	50	Japan	0.925	Tokyo	0.951	46	73	67	72
Italy	0.895	Bologna	0.924	41	50	48	51	United Kingdom	0.929	Manchester	0.915		57	58	73
Saudi Arabia	0.875	Месса	0.871				52	United Kingdom	0.929	Birmingham	0.913	63	68	73	74
USA	0.921	Denver	0.942	27	31	34	53	Spain	0.905	Barcelona	0.916	56	58	70	75
Spain	0.905	Zaragoza	0.912	58	53	51	54	United Kingdom	0.929	Leeds	0.908			64	76
USA	0.921	Seattle	0.94	31	41	38	55	United Kingdom	0.929	Newcastle	0.901		62	61	77
Saudi Arabia	0.875	Jeddah	0.871				56	France	0.903	Bordeaux	0.9			68	78
Germany	0.942	Hanover	0.93	43	51	53	57	Poland	0.876	Krakow	0.888	47	69	76	79
China	0.768	Nanjing	0.81	65	59	57	58	United Kingdom	0.929	Glasgow	0.921			65	80
Qatar	0.855	Doha	0.855				59	Germany	0.942	Kiel	0.921			72	81
China	0.768	Zhuhai	0.799	53	56	52	60	Italy	0.895	Milan	0.915	52	70	69	82
USA	0.921	Chicago	0.929	57	54	56	61	Latvia	0.863	Riga	0.929				83
Slovakia	0.848	Bratislava	0.944	32	26	42	62	France	0.903	Lille	0.88			82	84
Ireland	0.945	Dublin	0.95	21	28	44	63	Saudi Arabia	0.875	Medina	0.871			79	85
France	0.903	Lyon	0.914	54	61	62	64	China	0.768	Chongqing	0.774	69	65	74	86
Lithuania	0.875	Vilnius	0.913				65	Hungary	0.846	Budapest	0.922	64	63	78	87
China	0.768	Shenzhen	0.799	61	66	60	66	Thailand	0.8	Bangkok	0.839	75	78	86	88

				Rankings								Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023	Country	Country HDI	City	City HDI	2019	2020	2021	2023
Malaysia	0.803	Kuala Lumpur	0.858	59	71	80	89	Bulgaria	0.795	Sofia	0.856	87	87	103	111
Turkey	0.838	Ankara	0.854	73	74	75	90	Indonesia	0.705	Medan	0.711	89	94	96	112
Israel	0.919	Tel Aviv	0.919	49	55	59	91	Greece	0.887	Athens	0.909	94	98	108	113
USA	0.921	Philadelphia	0.923	71	79	85	92	Indonesia	0.705	Makassar	0.699	86	90	102	114
USA	0.921	Phoenix	0.908		72	77	93	Philippines	0.699	Manila	0.76	93	95	100	115
Wales	0.929	Cardiff	0.898				94	India	0.633	Hyderabad	0.647	81	91	101	116
Northern Ireland	0.929	Belfast	0.896				95	Cyprus	0.896	Nicosia	0.896				117
Oman	0.816	Muscat	0.816				96	Colombia	0.752	Medellin	0.757	82	88	99	118
China	0.768	Chengdu	0.74	74	77	84	97	Chile	0.855	Santiago	0.886	79	102	107	119
Japan	0.925	Osaka	0.928	68	84	90	98	Pakistan	0.544	Islamabad	0.659				120
Portugal	0.866	Lisbon	0.9	62	75	81	99	Mexico	0.758	Mexico City	0.815	90	103	110	121
Vietnam	0.703	Hanoi	0.744	77	82	89	100	Italy	0.895	Rome	0.917	97	97	111	122
France	0.903	Marseille	0.899		83	91	101	Algeria	0.745	Algiers	0.767				123
Indonesia	0.705	Jakarta	0.759	80	81	92	102	Argentina	0.842	Buenos Aires	0.812	88	93	104	124
Vietnam	0.703	Ho Chi Minh City	0.714	76	86	93	103	South Africa	0.713	Cape Town	0.751	92	99	106	125
Romania	0.821	Bucharest	0.926	60	76	87	104	Morocco	0.683	Rabat	0.702	99	101	109	126
India	0.633	Delhi	0.73	78	85	94	105	Costa Rica	0.809	San José	0.826			112	127
Croatia	0.858	Zagreb	0.916				106	Brazil	0.754	Brasilia	0.816				128
Turkey	0.838	Istanbul	0.867			88	107	Colombia	0.752	Bogota	0.797	91	104	113	129
Egypt	0.731	Cairo	0.779	96	100	105	108	Brazil	0.754	Sao Paulo	0.78	95	108	117	130
India	0.633	Mumbai	0.688	83	89	95	109	Kenya	0.575	Nairobi	0.636	100	107	115	131
India	0.633	Bengaluru	0.667	85	96	97	110	Nigeria	0.535	Lagos	0.681	101	105	116	132

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
Nigeria	0.535	Abuja	0.646	98	106	114	133
Peru	0.762	Lima	0.82				134
Jordan	0.72	Amman	0.737				135
Brazil	0.754	Rio de Janeiro	0.783	102	109	118	136
Tunisia	0.731	Tunis	0.775				137
Ghana	0.632	Accra	0.707				138
Lebanon	0.706	Beirut	0.677				139
Yemen	0.455	Sana'a	0.521				140
Guatemala	0.627	Guatemala City	0.722				141

City	Smart City Rank 2023	Smart City Rating 2023	Structure 2023	Technology 2023	Smart City Rank 2021	Change	City	Smart City Rank 2023	Smart City Rating 2023	Structure 2023	Technology 2023	Smart City Rank 2021	Change
Abu Dhabi	13	BB	BB	BB	12	▼ -1	Brasilia	128	С	С	С	NEW	-
Abuja	133	D	С	D	114	▼ -19	Bratislava	62	BB	BB	BBB	42	▼ -20
Accra	138	D	D	D	NEW	_	Brisbane	24	AA	А	А	40	▲ 16
Algiers	123	С	С	С	NEW	_	Brussels	35	BBB	BB	А	45	▲ 10
Amman	135	D	D	D	NEW	_	Bucharest	104	CCC	CCC	В	87	▼ -17
Amsterdam	15	А	BBB	А	13	▼ -2	Budapest	87	В	В	BB	78	▼ -9
Ankara	90	CCC	В	CCC	75	▼ -15	Buenos Aires	124	С	С	С	104	▼ -20
Athens	113	С	С	С	108	▼ -5	Busan	49	BB	BB	BBB	47	▼ -2
Auckland	22	А	А	А	16	▼ -6	Cairo	108	CC	С	CC	105	▼ -3
Bangkok	88	В	CCC	В	86	▼ -2	Canberra	3	AA	AA	А	NEW	-
Barcelona	75	BB	BB	BB	70	▼ -5	Cape Town	125	С	С	С	106	▼ -19
Beijing	12	BB	BB	BB	17	▲ 5	Cardiff	94	CC	CCC	CC	NEW	-
Beirut	139	D	D	D	NEW	_	Chengdu	97	CCC	CCC	CCC	84	▼ -13
Belfast	95	CC	CCC	CC	NEW	_	Chicago	61	BB	BB	BB	56	▼ -5
Bengaluru	110	CC	CC	CC	97	▼ -13	Chongqing	86	CCC	CCC	CCC	74	▼ -12
Berlin	33	BBB	BBB	BBB	21	▼ -12	Copenhagen	4	AA	AAA	А	5	▲ 1
Bilbao	27	BBB	BBB	BBB	23	▼ -4	Delhi	105	CC	CC	CC	94	▼ -11
Birmingham	74	BB	BB	BB	73	▼ -1	Denver	53	BBB	BBB	BBB	34	▼ -19
Bogota	129	D	D	С	113	▼ -16	Doha	59	BB	BB	В	NEW	_
Bologna	51	BB	BBB	BB	48	▼ -3	Dubai	17	BB	BB	В	14	▼ -3
Bordeaux	78	CCC	CCC	CC	68	▼ -10	Dublin	63	BB	BB	BBB	44	▼ -19
Boston	34	А	А	А	22	▼ -12	Dusseldorf	38	BB	BBB	BB	27	▼ -11

City	Smart City Rank 2023	Smart City Rating 2023	Structure 2023	Technology 2023	Smart City Rank 2021	Change	City	Smart City Rank 2023	Smart City Rating 2023	Structure 2023	Technology 2023	Smart City Rank 2021	Change
Geneva	9	AA	AA	А	6	▼ -3	Leeds	76	CCC	CCC	СС	64	▼ -12
Glasgow	80	BB	BB	В	65	▼ -15	Lille	84	CCC	CCC	CCC	82	▼ -2
Gothenburg	36	А	А	А	46	▲ 10	Lima	134	С	С	С	NEW	
Guangzhou	71	CCC	CCC	CCC	66	▼ -5	Lisbon	99	CC	CC	CC	81	▼ -18
Guatemala City	141	D	D	D	NEW	_	Ljubljana	47	BBB	BB	BBB	NEW	
Hamburg	11	А	А	BBB	8	▼ -3	London	6	А	BBB	AA	3	▼ -3
Hangzhou	70	CCC	CCC	CCC	63	▼ -7	Los Angeles	50	BB	BB	BBB	30	▼ -20
Hanoi	100	CCC	CCC	CCC	89	▼ -11	Luxembourg	45	BB	BBB	В	NEW	
Hanover	57	BB	BBB	В	53	▼ -4	Lyon	64	BB	BB	BB	62	▼ -2
Helsinki	8	AAA	AA	А	9	▲ 1	Madrid	37	BB	BB	BBB	37	
Ho Chi Minh City	103	CCC	CCC	CCC	93	▼ -10	Makassar	114	CC	CC	CC	102	▼ -12
Hong Kong	19	AA	BBB	AAA	33	▲ 14	Manchester	73	BB	BB	BB	58	▼ -15
Hyderabad	116	CC	CC	CC	101	▼ -15	Manila	115	С	С	CC	100	▼ -15
Islamabad	120	CC	CC	CC	NEW	_	Marseille	101	CC	CC	CC	91	▼ -10
Istanbul	107	CC	CC	CC	88	▼ -19	Месса	52	В	В	В	NEW	
Jakarta	102	CC	CC	CC	92	▼ -10	Medan	112	CC	CC	CC	96	▼ -16
Jeddah	56	В	В	В	NEW		Medellin	118	С	С	С	99	▼ -19
Kiel	81	BB	BBB	CCC	72	▼ -9	Medina	85	CCC	CCC	CCC	79	▼ -6
Krakow	79	CCC	В	CCC	76	▼ -3	Melbourne	31	А	BBB	А	36	▲ 5
Kuala Lumpur	89	CCC	В	CCC	80	▼ -9	Mexico City	121	С	С	CC	110	▼ -11
Lagos	132	D	D	С	116	▼ -16	Milan	82	BB	BB	BB	69	▼ -13
Lausanne	5	AA	AA	А	4	▼ -1	Montreal	69	BB	BBB	В	55	▼ -14

City	Smart City Rank 2023	Smart City Rating 2023	Structure 2023	Technology 2023	Smart City Rank 2021	Change	City	Smart City Rank 2023	Smart City Rating 2023	Structure 2023	Technology 2023	Smart City Rank 2021	Change
Mumbai	109	СС	CC	CCC	95	▼ -14	San Francisco	68	BB	BB	BB	54	▼ -14
Munich	20	AA	AA	А	15	▼ -5	San José	127	С	CC	С	112	▼ -15
Muscat	96	В	В	CCC	NEW	_	Sana'a	140	D	D	D	NEW	
Nairobi	131	С	С	С	115	▼ -16	Santiago	119	С	С	С	107	▼ -12
Nanjing	58	CCC	CCC	CCC	57	▼ -1	Sao Paulo	130	D	D	С	117	▼ -13
New York	21	BBB	BBB	А	19	▼ -2	Seattle	55	BB	BB	В	38	▼ -17
Newcastle	77	CCC	В	CC	61	▼ -16	Seoul	16	AA	BBB	AAA	18	▲ 2
Nicosia	117	С	CC	С	NEW	_	Shanghai	25	BB	BB	BB	32	▲ 7
Osaka	98	В	BB	CCC	90	▼ -8	Shenzhen	66	CCC	CCC	CCC	60	▼ -6
Oslo	2	AAA	AAA	А	2	_	Singapore	7	А	A	А	7	
Ottawa	40	А	AA	BBB	NEW	_	Sofia	111	CC	CC	CC	103	▼ -8
Paris	46	BBB	BB	А	49	▲ 3	Stockholm	10	А	A	А	11	▲ 1
Philadelphia	92	В	В	В	85	▼ -7	Sydney	18	AA	А	AA	29	▲ 11
Phoenix	93	СС	CCC	CC	77	▼ -16	Taipei City	29	А	BBB	А	25	▼ -4
Prague	14	AA	А	А	10	▼ -4	Tallinn	32	BBB	BBB	BB	24	▼ -8
Rabat	126	С	С	С	109	▼ -17	Tel Aviv	91	В	В	BB	59	▼ -32
Reykjavik	26	BBB	А	BBB	NEW	_	The Hague	43	А	A	А	35	▼ -8
Riga	83	В	В	В	NEW	_	Tianjin	67	BB	В	BB	50	▼ -17
Rio de Janeiro	136	D	D	D	118	▼ -18	Tokyo	72	BB	BB	BB	67	▼ -5
Riyadh	30	BB	В	BB	39	▲ 9	Toronto	48	BBB	BBB	BBB	31	▼ -17
Rome	122	CCC	CCC	CCC	111	▼ -11	Tunis	137	D	D	D	NEW	_
Rotterdam	41	А	BBB	А	43	▲ 2	Vancouver	42	А	А	BBB	28	▼ -14

City	Smart City Rank 2023	Smart City Rating 2023	Structure 2023	Technology 2023	Smart City Rank 2021	Change
Vienna	28	AA	AA	А	20	▼ -8
Vilnius	65	BB	BB	BBB	NEW	_
Warsaw	44	BBB	BBB	BBB	41	▼ -3
Washington D.C.	39	BB	BB	BB	26	▼ -13
Wellington	23	А	А	BBB	NEW	_
Zagreb	106	000	В	000	NEW	—
Zaragoza	54	000	В	CC	51	▼ -3
Zhuhai	60	CCC	CCC	CCC	52	▼ -8
Zurich	1	AAA	AAA	А	1	

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
United Arab Emirates	0.911	Abu Dhabi	0.911	16	14	12	13
Nigeria	0.535	Abuja	0.646	98	106	114	133
Ghana	0.632	Accra	0.707				138
Algeria	0.745	Algiers	0.767				123
Jordan	0.72	Amman	0.737				135
Netherlands	0.941	Amsterdam	0.962	11	11	13	15
Turkey	0.838	Ankara	0.854	73	74	75	90
Greece	0.887	Athens	0.909	94	98	108	113
New Zealand	0.937	Auckland	0.951	5	15	16	22
Thailand	0.8	Bangkok	0.839	75	78	86	88
Spain	0.905	Barcelona	0.916	56	58	70	75
China	0.768	Beijing	0.907	30	22	17	12
Lebanon	0.706	Beirut	0.677				139
Northern Ireland	0.929	Belfast	0.896				95
India	0.633	Bengaluru	0.667	85	96	97	110
Germany	0.942	Berlin	0.959	19	21	21	33
Spain	0.905	Bilbao	0.932	18	25	23	27
United Kingdom	0.929	Birmingham	0.913	63	68	73	74
Colombia	0.752	Bogota	0.797	91	104	113	129
Italy	0.895	Bologna	0.924	41	50	48	51
France	0.903	Bordeaux	0.9			68	78
Usa	0.921	Boston	0.949	15	24	22	34

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
Brazil	0.754	Brasilia	0.816				128
Slovakia	0.848	Bratislava	0.944	32	26	42	62
Australia	0.951	Brisbane	0.944	42	27	40	24
Belgium	0.937	Brussels	0.953	51	16	45	35
Romania	0.821	Bucharest	0.926	60	76	87	104
Hungary	0.846	Budapest	0.922	64	63	78	87
Argentina	0.842	Buenos Aires	0.812	88	93	104	124
Korea South	0.925	Busan	0.936	45	29	47	49
Egypt	0.731	Cairo	0.779	96	100	105	108
Australia	0.951	Canberra	0.98				3
South Africa	0.713	Cape Town	0.751	92	99	106	125
Wales	0.929	Cardiff	0.898				94
China	0.768	Chengdu	0.74	74	77	84	97
Usa	0.921	Chicago	0.929	57	54	56	61
China	0.768	Chongqing	0.774	69	65	74	86
Denmark	0.948	Copenhagen	0.967	4	3	5	4
India	0.633	Delhi	0.73	78	85	94	105
Usa	0.921	Denver	0.942	27	31	34	53
Qatar	0.855	Doha	0.855				59
United Arab Emirates	0.911	Dubai	0.911	13	19	14	17
Ireland	0.945	Dublin	0.95	21	28	44	63
Germany	0.942	Dusseldorf	0.939	17	37	27	38

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
Switzerland	0.962	Geneva	0.966	7	8	6	9
United Kingdom	0.929	Glasgow	0.921			65	80
Sweden	0.947	Gothenburg	0.944	33	43	46	36
China	0.768	Guangzhou	0.799	67	64	66	71
Guatemala	0.627	Guatemala City	0.722				141
Germany	0.942	Hamburg	0.972		6	8	11
China	0.768	Hangzhou	0.801	66	60	63	70
Vietnam	0.703	Hanoi	0.744	77	82	89	100
Germany	0.942	Hanover	0.93	43	51	53	57
Finland	0.94	Helsinki	0.96	6	5	9	8
Vietnam	0.703	Ho Chi Minh City	0.714	76	86	93	103
Hong Kong	0.949	Hong Kong	0.946	38	34	33	19
India	0.633	Hyderabad	0.647	81	91	101	116
Pakistan	0.544	Islamabad	0.659				120
Turkey	0.838	Istanbul	0.867			88	107
Indonesia	0.705	Jakarta	0.759	80	81	92	102
Saudi Arabia	0.875	Jeddah	0.871				56
Germany	0.942	Kiel	0.921			72	81
Poland	0.876	Krakow	0.888	47	69	76	79
Malaysia	0.803	Kuala Lumpur	0.858	59	71	80	89
Nigeria	0.535	Lagos	0.681	101	105	116	132
Switzerland	0.962	Lausanne	0.966			4	5

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
United Kingdom	0.929	Leeds	0.908			64	76
France	0.903	Lille	0.88			82	84
Peru	0.762	Lima	0.82				134
Portugal	0.866	Lisbon	0.9	62	75	81	99
Slovenia	0.918	Ljubljana	0.953				47
United Kingdom	0.929	London	0.973	3	10	3	6
Usa	0.921	Los Angeles	0.931	44	36	30	50
Luxembourg	0.93	Luxembourg	0.93				45
France	0.903	Lyon	0.914	54	61	62	64
Spain	0.905	Madrid	0.94	25	30	37	37
Indonesia	0.705	Makassar	0.699	86	90	102	114
United Kingdom	0.929	Manchester	0.915		57	58	73
Philippines	0.699	Manila	0.76	93	95	100	115
France	0.903	Marseille	0.899		83	91	101
Saudi Arabia	0.875	Месса	0.871				52
Indonesia	0.705	Medan	0.711	89	94	96	112
Colombia	0.752	Medellin	0.757	82	88	99	118
Saudi Arabia	0.875	Medina	0.871			79	85
Australia	0.951	Melbourne	0.948	35	33	36	31
Mexico	0.758	Mexico City	0.815	90	103	110	121
Italy	0.895	Milan	0.915	52	70	69	82
Canada	0.936	Montreal	0.923	50	52	55	69

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
India	0.633	Mumbai	0.688	83	89	95	109
Germany	0.942	Munich	0.95		17	15	20
Oman	0.816	Muscat	0.816				96
Kenya	0.575	Nairobi	0.636	100	107	115	131
China	0.768	Nanjing	0.81	65	59	57	58
Usa	0.921	New York	0.938	34	12	19	21
United Kingdom	0.929	Newcastle	0.901		62	61	77
Cyprus	0.896	Nicosia	0.896				117
Japan	0.925	Osaka	0.928	68	84	90	98
Norway	0.961	Oslo	0.98	2	2	2	2
Canada	0.936	Ottawa	0.943				40
France	0.903	Paris	0.949	39	47	49	46
Usa	0.921	Philadelphia	0.923	71	79	85	92
Usa	0.921	Phoenix	0.908		72	77	93
Czech Rep.	0.889	Prague	0.96	8	4	10	14
Morocco	0.683	Rabat	0.702	99	101	109	126
Iceland	0.959	Reykjavik	0.959				26
Latvia	0.863	Riga	0.929				83
Brazil	0.754	Rio De Janeiro	0.783	102	109	118	136
Saudi Arabia	0.875	Riyadh	0.9	55	44	39	30
Italy	0.895	Rome	0.917	97	97	111	122
Netherlands	0.941	Rotterdam	0.941	40	35	43	41

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
Usa	0.921	San Francisco	0.931	28	49	54	68
Costa Rica	0.809	San José	0.826			112	127
Yemen	0.455	Sana'a	0.521				140
Chile	0.855	Santiago	0.886	79	102	107	119
Brazil	0.754	Sao Paulo	0.78	95	108	117	130
Usa	0.921	Seattle	0.94	31	41	38	55
Korea South	0.925	Seoul	0.952	23	20	18	16
China	0.768	Shanghai	0.88	37	42	32	25
China	0.768	Shenzhen	0.799	61	66	60	66
Singapore	0.939	Singapore	0.939	10	7	7	7
Bulgaria	0.795	Sofia	0.856	87	87	103	111
Sweden	0.947	Stockholm	0.972	9	9	11	10
Australia	0.951	Sydney	0.952	22	32	29	18
Taiwan	0.916	Taipei City	0.916	24	23	25	29
Estonia	0.89	Tallinn	0.932		39	24	32
Israel	0.919	Tel Aviv	0.919	49	55	59	91
Netherlands	0.941	The Hague	0.941	36	38	35	43
China	0.768	Tianjin	0.844	48	45	50	67
Japan	0.925	Tokyo	0.951	46	73	67	72
Canada	0.936	Toronto	0.943	29	46	31	48
Tunisia	0.731	Tunis	0.775				137
Canada	0.936	Vancouver	0.944	20	40	28	42

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
Austria	0.916	Vienna	0.942	12	18	20	28
Lithuania	0.875	Vilnius	0.913				65
Poland	0.876	Warsaw	0.926	14	48	41	44
Usa	0.921	Washington D.c.	0.94	26	13	26	39
New Zealand	0.937	Wellington	0.958				23
Croatia	0.858	Zagreb	0.916				106
Spain	0.905	Zaragoza	0.912	58	53	51	54
China	0.768	Zhuhai	0.799	53	56	52	60
Switzerland	0.962	Zurich	0.989	1	1	1	1

				Rankings								Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023	Country	Country HDI	City	City HDI	2019	2020	2021	202
Algeria	0.745	Algiers	0.767				123	China	0.768	Nanjing	0.81	65	59	57	58
Argentina	0.842	Buenos Aires	0.812	88	93	104	124	China	0.768	Shanghai	0.88	37	42	32	2
Australia	0.951	Brisbane	0.944	42	27	40	24	China	0.768	Shenzhen	0.799	61	66	60	6
Australia	0.951	Canberra	0.98				3	China	0.768	Tianjin	0.844	48	45	50	6
Australia	0.951	Melbourne	0.948	35	33	36	31	China	0.768	Zhuhai	0.799	53	56	52	6
Australia	0.951	Sydney	0.952	22	32	29	18	Colombia	0.752	Bogota	0.797	91	104	113	12
Austria	0.916	Vienna	0.942	12	18	20	28	Colombia	0.752	Medellin	0.757	82	88	99	11
Belgium	0.937	Brussels	0.953	51	16	45	35	Costa Rica	0.809	San José	0.826			112	12
Brazil	0.754	Brasilia	0.816				128	Croatia	0.858	Zagreb	0.916				10
Brazil	0.754	Rio de Janeiro	0.783	102	109	118	136	Cyprus	0.896	Nicosia	0.896				11
Brazil	0.754	Sao Paulo	0.78	95	108	117	130	Czech Rep.	0.889	Prague	0.96	8	4	10	1
Bulgaria	0.795	Sofia	0.856	87	87	103	111	Denmark	0.948	Copenhagen	0.967	4	3	5	4
Canada	0.936	Montreal	0.923	50	52	55	69	Egypt	0.731	Cairo	0.779	96	100	105	1
Canada	0.936	Ottawa	0.943				40	Estonia	0.89	Tallinn	0.932		39	24	3
Canada	0.936	Toronto	0.943	29	46	31	48	Finland	0.94	Helsinki	0.96	6	5	9	8
Canada	0.936	Vancouver	0.944	20	40	28	42	France	0.903	Bordeaux	0.9			68	7
Chile	0.855	Santiago	0.886	79	102	107	119	France	0.903	Lille	0.88			82	8
China	0.768	Beijing	0.907	30	22	17	12	France	0.903	Lyon	0.914	54	61	62	6
China	0.768	Chengdu	0.74	74	77	84	97	France	0.903	Marseille	0.899		83	91	1
China	0.768	Chongqing	0.774	69	65	74	86	France	0.903	Paris	0.949	39	47	49	4
China	0.768	Guangzhou	0.799	67	64	66	71	Germany	0.942	Berlin	0.959	19	21	21	Э
China	0.768	Hangzhou	0.801	66	60	63	70	Germany	0.942	Dusseldorf	0.939	17	37	27	3

				Rankings								Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023	Country	Country HDI	City	City HDI	2019	2020	2021	2023
Germany	0.942	Hamburg	0.972		6	8	11	Japan	0.925	Osaka	0.928	68	84	90	98
Germany	0.942	Hanover	0.93	43	51	53	57	Japan	0.925	Tokyo	0.951	46	73	67	72
Germany	0.942	Kiel	0.921			72	81	Jordan	0.72	Amman	0.737				135
Germany	0.942	Munich	0.95		17	15	20	Kenya	0.575	Nairobi	0.636	100	107	115	131
Ghana	0.632	Accra	0.707				138	Korea South	0.925	Busan	0.936	45	29	47	49
Greece	0.887	Athens	0.909	94	98	108	113	Korea South	0.925	Seoul	0.952	23	20	18	16
Guatemala	0.627	Guatemala City	0.722				141	Latvia	0.863	Riga	0.929				83
Hong Kong	0.949	Hong Kong	0.946	38	34	33	19	Lebanon	0.706	Beirut	0.677				139
Hungary	0.846	Budapest	0.922	64	63	78	87	Lithuania	0.875	Vilnius	0.913				65
Iceland	0.959	Reykjavik	0.959				26	Luxembourg	0.93	Luxembourg	0.93				45
India	0.633	Bengaluru	0.667	85	96	97	110	Malaysia	0.803	Kuala Lumpur	0.858	59	71	80	89
India	0.633	Delhi	0.73	78	85	94	105	Mexico	0.758	Mexico City	0.815	90	103	110	121
India	0.633	Hyderabad	0.647	81	91	101	116	Morocco	0.683	Rabat	0.702	99	101	109	126
India	0.633	Mumbai	0.688	83	89	95	109	Netherlands	0.941	Amsterdam	0.962	11	11	13	15
Indonesia	0.705	Jakarta	0.759	80	81	92	102	Netherlands	0.941	Rotterdam	0.941	40	35	43	41
Indonesia	0.705	Makassar	0.699	86	90	102	114	Netherlands	0.941	The Hague	0.941	36	38	35	43
Indonesia	0.705	Medan	0.711	89	94	96	112	New Zealand	0.937	Auckland	0.951	5	15	16	22
Ireland	0.945	Dublin	0.95	21	28	44	63	New Zealand	0.937	Wellington	0.958				23
Israel	0.919	Tel Aviv	0.919	49	55	59	91	Nigeria	0.535	Abuja	0.646	98	106	114	133
Italy	0.895	Bologna	0.924	41	50	48	51	Nigeria	0.535	Lagos	0.681	101	105	116	132
Italy	0.895	Milan	0.915	52	70	69	82	Northern Ireland	0.929	Belfast	0.896				95
Italy	0.895	Rome	0.917	97	97	111	122	Norway	0.961	Oslo	0.98	2	2	2	2

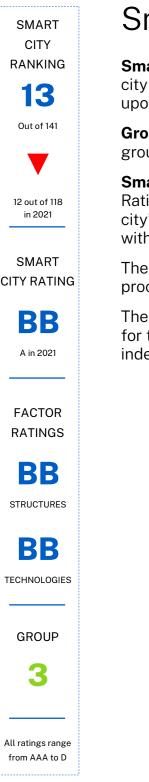
				Rankings								Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023	Country	Country HDI	City	City HDI	2019	2020	2021	2023
Oman	0.816	Muscat	0.816				96	Sweden	0.947	Stockholm	0.972	9	9	11	10
Pakistan	0.544	Islamabad	0.659				120	Switzerland	0.962	Geneva	0.966	7	8	6	9
Peru	0.762	Lima	0.82				134	Switzerland	0.962	Lausanne	0.966			4	5
Philippines	0.699	Manila	0.76	93	95	100	115	Switzerland	0.962	Zurich	0.989	1	1	1	1
Poland	0.876	Krakow	0.888	47	69	76	79	Taiwan	0.916	Taipei City	0.916	24	23	25	29
Poland	0.876	Warsaw	0.926	14	48	41	44	Thailand	0.8	Bangkok	0.839	75	78	86	88
Portugal	0.866	Lisbon	0.9	62	75	81	99	Tunisia	0.731	Tunis	0.775				137
Qatar	0.855	Doha	0.855				59	Turkey	0.838	Ankara	0.854	73	74	75	90
Romania	0.821	Bucharest	0.926	60	76	87	104	Turkey	0.838	Istanbul	0.867			88	107
Saudi Arabia	0.875	Jeddah	0.871				56	United Arab Emirates	0.911	Abu Dhabi	0.911	16	14	12	13
Saudi Arabia	0.875	Месса	0.871				52	United Arab Emirates	0.911	Dubai	0.911	13	19	14	17
Saudi Arabia	0.875	Medina	0.871			79	85	United Kingdom	0.929	Birmingham	0.913	63	68	73	74
Saudi Arabia	0.875	Riyadh	0.9	55	44	39	30	United Kingdom	0.929	Glasgow	0.921			65	80
Singapore	0.939	Singapore	0.939	10	7	7	7	United Kingdom	0.929	Leeds	0.908			64	76
Slovakia	0.848	Bratislava	0.944	32	26	42	62	United Kingdom	0.929	London	0.973	3	10	3	6
Slovenia	0.918	Ljubljana	0.953				47	United Kingdom	0.929	Manchester	0.915		57	58	73
South Africa	0.713	Cape Town	0.751	92	99	106	125	United Kingdom	0.929	Newcastle	0.901		62	61	77
Spain	0.905	Barcelona	0.916	56	58	70	75	USA	0.921	Boston	0.949	15	24	22	34
Spain	0.905	Bilbao	0.932	18	25	23	27	USA	0.921	Chicago	0.929	57	54	56	61
Spain	0.905	Madrid	0.94	25	30	37	37	USA	0.921	Denver	0.942	27	31	34	53
Spain	0.905	Zaragoza	0.912	58	53	51	54	USA	0.921	Los Angeles	0.931	44	36	30	50
Sweden	0.947	Gothenburg	0.944	33	43	46	36	USA	0.921	New York	0.938	34	12	19	21

				Rankings			
Country	Country HDI	City	City HDI	2019	2020	2021	2023
USA	0.921	Philadelphia	0.923	71	79	85	92
USA	0.921	Phoenix	0.908		72	77	93
USA	0.921	San Francisco	0.931	28	49	54	68
USA	0.921	Seattle	0.94	31	41	38	55
USA	0.921	Washington D.C.	0.94	26	13	26	39
Vietnam	0.703	Hanoi	0.744	77	82	89	100
Vietnam	0.703	Ho Chi Minh City	0.714	76	86	93	103
Wales	0.929	Cardiff	0.898				94
Yemen	0.455	Sana'a	0.521				140

IMD Smart City Index 2023 A User's Guide



IMD Smart City Index 2023 A User's Guide



Smart City Ranking

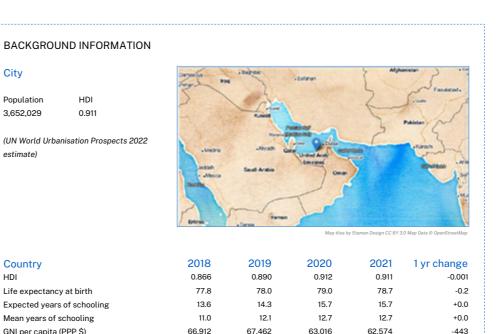
Smart City Ranking: The Ranking position of the city amongst the 141 cities measured, based upon the Rating and its components.

Group: Each city is assigned to one of four groups, based upon its HDI values.

Smart City Rating and Factor Ratings: The Ratings for each city are calculated from the city's performance relative to the other cities within the group.

The Methodology section provides the exact procedure for these calculations.

The 2021 Ranking and Rating are also shown for the 118 cities included in in the last edition's index (2021).

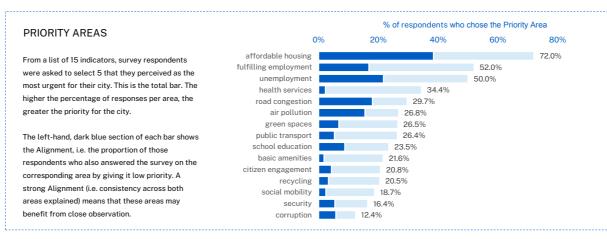


Background Information

This section presents the Human Development Index (HDI) at the city level taken from the Global Data Lab, and the population of the city as defined through the United Nations World Urbanization Prospects for the majority of cities, or Eurostat for some of European cities.

Priority Areas

Summarizes the areas that the respondents perceive as the priority area for their city. From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. The total bar indicates the percentage of the respondents that included a given area as one of their five choices. The higher the percentage of responses per area, the greater the priority for the city. The left-hand section of each bar shows the Alignment - the proportion of those respondents who also answered the corresponding survey questions low. A strong Alignment implies that these areas also demand priority attention.



It also presents the United Nations HDI (country-level - for the parent economy of a given city) and its four components, as well as the city's position on the map. Please note: for Taipei City only, the data is calculated using the same methodology and comparable data.



IMD Smart City Index 2023 A User's Guide

Attitudes

Shows and compares the responses to three key privacy aspects (willingness to concede personal data, comfort vis-à-vis face recognition, and whether online information has increased trust in authorities) and the percentage of day-to-day transactions that are non-cash. The city is represented by the blue bar, while the group average is shown by the light red bar.

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authoritie The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

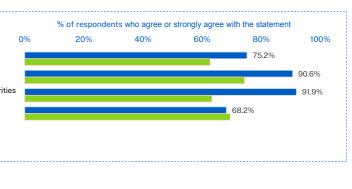
Structures and Technologies

Key survey data collected on Structures (left side) and Technologies (right side), under five key areas: health and safety, mobility, activities, opportunities, and governance.

Each indicator presents the Score for the city and a comparison with its Group (1-4). Showing the Group's Minimum, Mean, and Maximum Scores (light red bar) alongside with the city (blue circle) allows a clear comparison of the city's performance in this indicator. The Methodology section provides the exact calculation of the Score.

This table can be read in two ways: down to examine all Structures or Technologies indicators, or across to examine a key area in both Structures and Technologies.

•	STRUCTURES		Score			TECHNOLOGIES —	Score	
Health & Safety	0	20	40	60 80	100	Health & Safety 0 20	40 60 80	100
Basic sanitation meets the needs of the poorest areas					84.9	Online reporting of city maintenance problems provides a speedy solution		
Recycling services are satisfactory					86.4	A website or App allows residents to easily give away unwanted items		
Public safety is not a problem					70.7	Free public wifi has improved access to city services		
Air pollution is not a problem					56.8	CCTV cameras has made residents feel safer		
Medical services provision is satisfactory					88.2	A website or App allows residents to effectively monitor air pollution		
Finding housing with rent equal to $30\% or less of a monthly satisfies the set of the set o$	alary is not a problem				51.7	Arranging medical appointments online has improved access		
Mobility						Mobility		
Traffic congestion is not a problem					59.9	Car-sharing Apps have reduced congestion		
Public transport is satisfactory					83.2	Apps that direct you to an available parking space have reduced journey time		
				<u> </u>		Bicycle hiring has reduced congestion		
						Online scheduling and ticket sales has made public transport easier to use)
						The city provides information on traffic congestion through mobile phones		
Activities						Activities		
Green spaces are satisfactory					82.6	Online purchasing of tickets to shows and museums has made it easier to attend		
Cultural activities (shows, bars, and museums) are satisfactory	у				84.8			
Opportunities (Work & School)						Opportunities (Work & School)		
Employment finding services are readily available					64.1	Online access to job listings has made it easier to find work		
Most children have access to a good school					76.0	IT skills are taught well in schools		
Lifelong learning opportunities are provided by local institutio	ons				70.7	Online services provided by the city has made it easier to start a new business		
Businesses are creating new jobs					67.1	The current internet speed and reliability meet connectivity needs		\bigcirc
Minorities feel welcome					81.2			
Governance						Governance		
Information on local government decisions are easily accessib	ole				84.2	Online public access to city finances has reduced corruption		
Corruption of city officials is not an issue of concern					66.0	Online voting has increased participation		
Residents contribute to decision making of local government					65.5	An online platform where residents can propose ideas has improved city life		
Residents provide feedback on local government projects					71.9	Processing Identification Documents online has reduced waiting times		



IMD Smart City Index 2023 Methodology



IMD Smart City Index 2023 **Methodology**

1	The IMD Smart City Index 2023 assesses the perceptions of residents on issues related to structures and technology applications available to them in their city.
2	This edition of the SCI ranks 118 cities worldwide by capturing the perceptions of 120 residents in each city. The final score for each city is computed by using the perceptions of the last three years of the survey, with the weight of 3:2:1 for 2023:2021:2020.
3	There are two pillars for which perceptions from residents are solicited: The Structures pillar referring to the existing infrastructure of the cities, and the Technology pillar describing the technological provisions and services available to the inhabitants.
4	Each pillar is evaluated over five key areas: health and safety, mobility, activities, opportunities, and governance.

The cities are distributed into four groups based on the Global Data Lab's Human Development Index (HDI) score of the city they are part of.

6

Within each HDI group, cities are assigned a 'rating scale' (AAA to D) based on the perceptions-score of a given city compared to the scores of all other cities within the same group.

For group 1 (highest HDI quartile), scale

AAA-AA-A-BBB-BB

For group 2 (second HDI quartile), scale

A-BBB-BB-B-CCC

For group 3 (third HDI quartile), scale

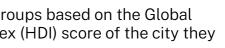
BB-B-CCC-CC-C

For group 4 (lowest HDI quartile), scale

CCC-CC-C-D

Rankings are then presented in two formats:

- an overall ranking (1 to 141)
- a rating for each pillar and overall









IMD Smart City Index 2023 City Profiles



Abu Dhabi



BACKGROUND INFORMATION



3,652,029

(UN World Urbanisation Prospects 2022 estimate)

0.911



sign CC BY 3.0 Map Data © Op

Country	2018	2019	2020	2021	1 yr change
HDI	0.866	0.890	0.912	0.911	-0.001
Life expectancy at birth	77.8	78.0	79.0	78.7	-0.2
Expected years of schooling	13.6	14.3	15.7	15.7	+0.0
Mean years of schooling	11.0	12.1	12.7	12.7	+0.0
GNI per capita (PPP \$)	66,912	67,462	63,016	62,574	-443

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% affordable housing fulfilling employment unemployment health services road congestion air pollution green spaces public transport school education basic amenities citizen engagement recycling social mobility security corruption

0%

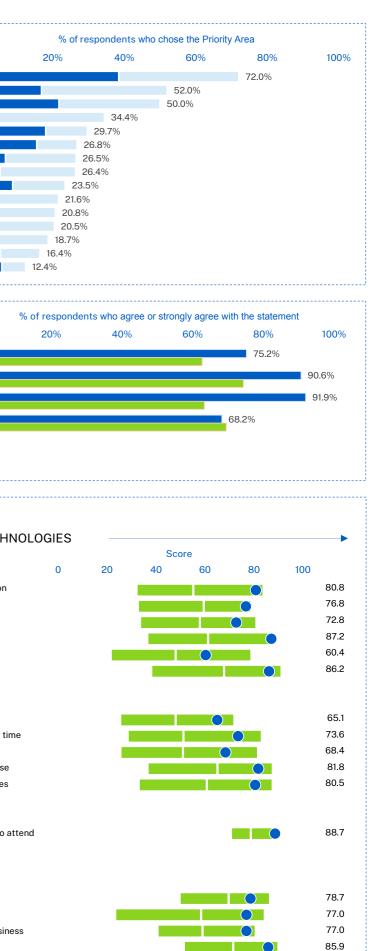
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

RR	L				i.		
				LEGI	END: MIN	1	CITY MEAN GROUP MAX
A in 2021	STF	RUCTURES				TECHNOL	
	Health & Safety	0 20	Score) 40 60	0 80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas					84.9	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					86.4	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					70.7	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	_				56.8	CCTV cameras has made residents feel safer
NATINGS	Medical services provision is satisfactory					88.2	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not	a problem				51.7	Arranging medical appointments online has improved access
BB	Mobility						Mobility
	Traffic congestion is not a problem	_				59.9	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory			, 		83.2	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					82.6	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory					84.8	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available			\bigcirc		64.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					76.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions			\bigcirc		70.7	Online services provided by the city has made it easier to start a new business
9	Businesses are creating new jobs					67.1	The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome					81.2	
	Governance						Governance
	Information on local government decisions are easily accessible					84.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					66.0	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					65.5	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					71.9	Processing Identification Documents online has reduced waiting times





Abuja



D

BACKGROUND INFORMATION

HDI

0.646



(UN World Urbanisation Prospects 2022 estimate)

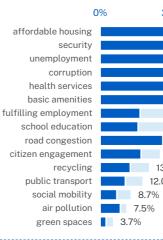


Country	2018	2019	2020	2021	1 yr change
HDI	0.534	0.539	0.535	0.535	+0.000
Life expectancy at birth	54.3	54.7	52.9	52.7	-0.2
Expected years of schooling	9.7	10.0	10.1	10.1	+0.0
Mean years of schooling	6.5	6.7	7.2	7.2	+0.0
GNI per capita (PPP \$)	5,086	4,910	4,740	4,790	+51

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



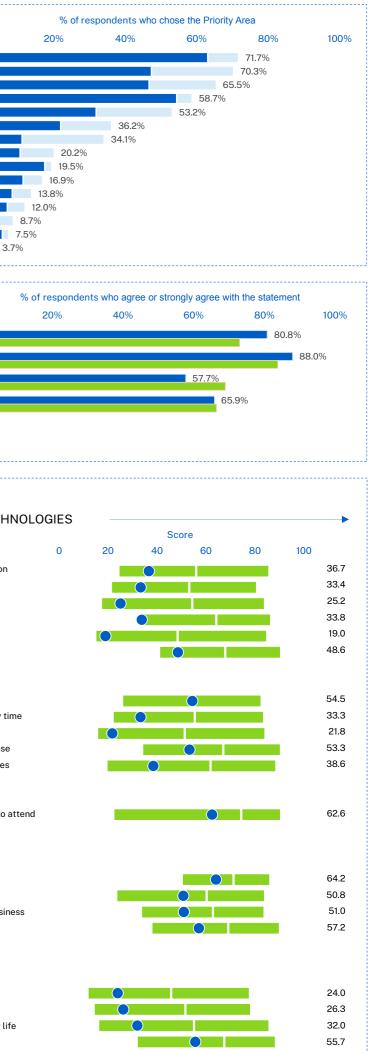
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

ν			LEGEND: MIN	CITY MEAN GROUP MAX
D in 2021	STRUCTURES			TECHNOLO
		Score		
	Health & Safety 0 20	40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas		47.0	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory		43.1	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem		38.3	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		36.9	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory		48.8	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem		21.5	Arranging medical appointments online has improved access
C	Mobility			Mobility
	Traffic congestion is not a problem		42.9	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		52.3	Apps that direct you to an available parking space have reduced journey time
				Bicycle hiring has reduced congestion
				Online scheduling and ticket sales has made public transport easier to use
D				The city provides information on traffic congestion through mobile phones
	Activities			Activities
TECHNOLOGIES	Green spaces are satisfactory		62.9	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory		70.4	
	Opportunities (Work & School)			Opportunities (Work & School)
	Employment finding services are readily available		34.3	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school		53.1	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions		43.4	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs		64.1	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome		51.0	
	Governance			Governance
	Information on local government decisions are easily accessible		42.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		14.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government		25.7	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects		35.6	Processing Identification Documents online has reduced waiting times



Accra

SMART CITY RANKING 138 Out of 141 not out of 118 in 2021 SMART

CITY RATING

D

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



Country	2018	2019	2020	2021	1 yr change
HDI	0.620	0.631	0.632	0.632	+0.000
Life expectancy at birth	64.1	64.7	64.1	63.8	-0.3
Expected years of schooling	11.5	11.9	12.1	12.1	+0.0
Mean years of schooling	8.2	8.3	8.3	8.3	+0.0
GNI per capita (PPP \$)	5,072	5,307	5,601	5,745	+143

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

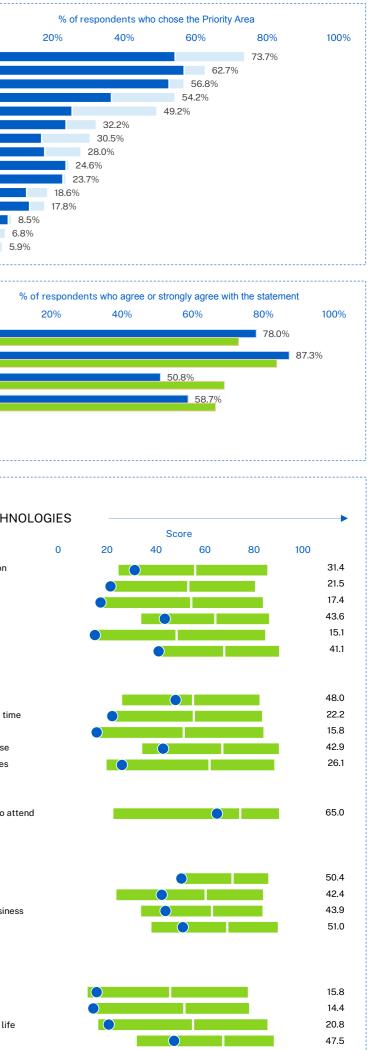
The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% unemployment affordable housing corruption basic amenities health services security fulfilling employment school education road congestion air pollution recycling public transport citizen engagement 8.5% green spaces 6.8% social mobility 5.9%

0%

ATTITUDES

					LEGEN	ID: MIN	CITY MEAN GROUP MAX
STRUCT	URES						TECHNOL
	_						
	0	20	40	60	80		Health & Safety
· · · · · · · · · · · · · · · · · · ·			\bigcirc				Online reporting of city maintenance problems provides a speedy solution
			\bigcirc				A website or App allows residents to easily give away unwanted items
			\bigcirc				Free public wifi has improved access to city services
							CCTV cameras has made residents feel safer
							A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a probl	em					18.2	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem	1	\bigcirc				12.4	Car-sharing Apps have reduced congestion
Public transport is satisfactory			\bigcirc			38.8	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory			\bigcirc			38.0	Online purchasing of tickets to shows and museums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory				\bigcirc		63.7	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						29.2	Online access to job listings has made it easier to find work
Most children have access to a good school						46.5	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions			\bigcirc			34.5	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs			\bigcirc			44.1	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						46.6	
Governance							Governance
Information on local government decisions are easily accessible						40.4	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						11.9	Online voting has increased participation
Residents contribute to decision making of local government						26.0	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects						36.7	Processing Identification Documents online has reduced waiting times
	 Health & Safety Basic sanitation meets the needs of the poorest areas Recycling services are satisfactory Public safety is not a problem Air pollution is not a problem Medical services provision is satisfactory Finding housing with rent equal to 30% or less of a monthly salary is not a proble Mobility Traffic congestion is not a problem Public transport is satisfactory Green spaces are satisfactory Cultural activities (shows, bars, and museums) are satisfactory Employment finding services are readily available Most children have access to a good school Lifelong learning opportunities are provided by local institutions Businesses are creating new jobs Minorities feel welcome Governance Information on local government decisions are easily accessible Corruption of city officials is not an issue of concern 	Basic sanitation meets the needs of the poorest areas Recycling services are satisfactory Public safety is not a problem Air pollution is not a problem Medical services provision is satisfactory Finding housing with rent equal to 30% or less of a monthly salary is not a problem Mobility Traffic congestion is not a problem Public transport is satisfactory Cultural satisfactory Cultural activities (shows, bars, and museums) are satisfactory Opportunities (Work & School) Employment finding services are readily available Most children have access to a good school Lifelong learning opportunities are provided by local institutions Businesses are creating new jobs Minorities feel welcome Governance Information on local government decisions are easily accessible Corruption of city officials is not an issue of concern	Health & Safety 0 20 Basic sanitation meets the needs of the poorest areas Recycling services are satisfactory Public safety is not a problem Air pollution is not a problem Air pollution is not a problem Image: Comparison of the poorest areas Medical services provision is satisfactory Image: Comparison of the poorest areas Mobility Image: Comparison of the poorest areas Traffic congestion is not a problem Image: Comparison of the poorest areas Public transport is satisfactory Image: Comparison of the poorest areas Cultural activities (shows, bars, and museums) are satisfactory Image: Comparison of the poorest areas Opportunities (Work & School) Image: Comparison of the poorest are readily available Most children have access to a good school Image: Comparison of the poorest are readily available Most children have access to a good school Image: Comparison of the poores Information on local government decisions are easily accessible Image: Corruption of city officials is not an issue of concern	Sco Health & Safety Basic sanitation meets the needs of the poorest areas Recycling services are satisfactory Public safety is not a problem Air pollution is not a problem Medical services provision is satisfactory Finding housing with rent equal to 30% or less of a monthly salary is not a problem Mobility Traffic congestion is not a problem Public transport is satisfactory Cultural activities (shows, bars, and museums) are satisfactory Employment finding services are readily available Most children have access to a good school Lifelong learning opportunities are provided by local institutions Businesses are creating new jobs Minorities fel welcome Covernance Information on local government decisions are easily accessible Corruption of city officials is not an issue of concern	Score 0 20 40 60 Basic sanitation meets the needs of the poorest areas Recycling services are satisfactory 0 <td< td=""><td>Health & Safety 0 20 40 60 80 Basic sanitation meets the needs of the poorest areas Reycling services are satisfactory 0 20 40 60 80 Public safety is not a problem Air pollution is not a problem 0</td><td>Health & Safety 0 20 40 60 80 100 Basic sanitation meets the needs of the poorest areas 37.6 Recycling services are satisfactory 40.4 Public safety is not a problem 37.3 Air pollution is not a problem 19.4 Medical services provision is satisfactory 19.4 Finding housing with rent equal to 30% or less of a monthly salary is not a problem 18.2 Mobility 12.4 Public transport is satisfactory 38.8 Activities 38.8 Cultural activities (Mork & School) 38.0 Employment finding services are readily available 38.0 Most children have access to a good school 40.4 Lifelong learning opportunities are provided by local institutions 34.5 Businesses are creating new jobs 44.1 Minorities feel welcome 46.6 Covernance 40.4 Information on local government decisions are easily accessible 40.4 Corruption of city officials is not an issue of concern 40.4</td></td<>	Health & Safety 0 20 40 60 80 Basic sanitation meets the needs of the poorest areas Reycling services are satisfactory 0 20 40 60 80 Public safety is not a problem Air pollution is not a problem 0	Health & Safety 0 20 40 60 80 100 Basic sanitation meets the needs of the poorest areas 37.6 Recycling services are satisfactory 40.4 Public safety is not a problem 37.3 Air pollution is not a problem 19.4 Medical services provision is satisfactory 19.4 Finding housing with rent equal to 30% or less of a monthly salary is not a problem 18.2 Mobility 12.4 Public transport is satisfactory 38.8 Activities 38.8 Cultural activities (Mork & School) 38.0 Employment finding services are readily available 38.0 Most children have access to a good school 40.4 Lifelong learning opportunities are provided by local institutions 34.5 Businesses are creating new jobs 44.1 Minorities feel welcome 46.6 Covernance 40.4 Information on local government decisions are easily accessible 40.4 Corruption of city officials is not an issue of concern 40.4



Algiers



not out of 118

in 2021

SMART

CITY RATING

BACKGROUND INFORMATION

HDI



estimate)

2,853,959 0.767 (UN World Urbanisation Prospects 2022



Country	2018	2019	2020	2021	1 yr change
HDI	0.745	0.748	0.736	0.745	+0.009
Life expectancy at birth	76.1	76.5	74.5	76.4	+1.9
Expected years of schooling	14.6	14.6	14.6	14.6	+0.0
Mean years of schooling	8.0	8.1	8.1	8.1	+0.0
GNI per capita (PPP \$)	11,344	11,242	10,530	10,800	+270

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

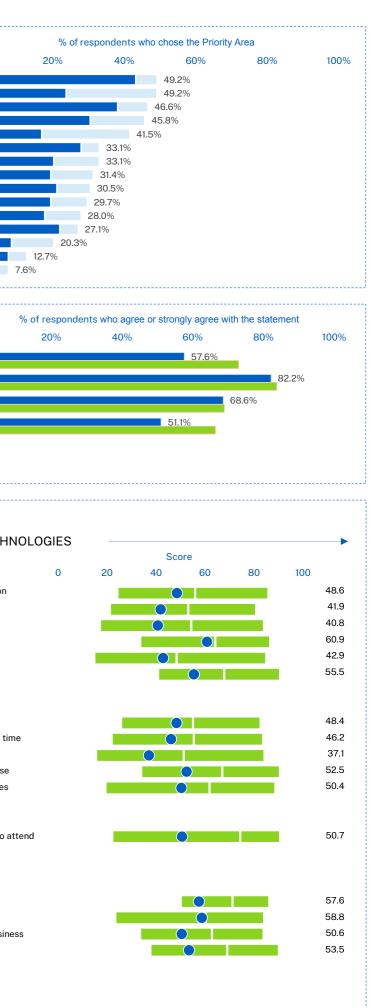
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0% road congestion health services affordable housing unemployment basic amenities corruption green spaces security fulfilling employment air pollution recycling public transport school education citizen engagement 12.7% social mobility 7.6%

0%

ATTITUDES

	,	
not in 2021	STRUCTURES	TECHNO
	Score	
	Health & Safety 0 20 40 60	0 80 100 Health & Safety
	Basic sanitation meets the needs of the poorest areas	53.0 Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	41.2 A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	52.8 Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	32.1 CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	55.1 A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	32.3 Arranging medical appointments online has improved access
C	Mobility	Mobility
	Traffic congestion is not a problem	17.4 Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	35.6 Apps that direct you to an available parking space have reduced journey time
		Bicycle hiring has reduced congestion
		Online scheduling and ticket sales has made public transport easier to use
С		The city provides information on traffic congestion through mobile phones
`	Activities	Activities
TECHNOLOGIES	Green spaces are satisfactory	52.5 Online purchasing of tickets to shows and museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory	49.4
	Opportunities (Work & School)	Opportunities (Work & School)
	Employment finding services are readily available	37.9 Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	64.4 IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	64.7 Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	39.5 The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome	55.4
	Governance	Governance
	Information on local government decisions are easily accessible	50.3 Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	27.1 Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	35.6 An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	41.9 Processing Identification Documents online has reduced waiting times
· · · · · · · · · · · · · · · · · · ·		





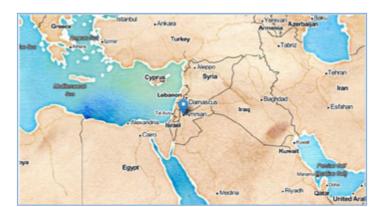
Amman



BACKGROUND INFORMATION



(UN Data)



Country	2018	2019	2020	2021	1 yr change
HDI	0.723	0.727	0.723	0.720	-0.003
Life expectancy at birth	75.8	76.0	75.2	74.3	-0.9
Expected years of schooling	10.4	10.6	10.7	10.7	+0.0
Mean years of schooling	10.4	10.4	10.5	10.5	+0.0
GNI per capita (PPP \$)	9,967	10,073	9,789	9,924	+135

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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road congestion unemployment affordable housing corruption fulfilling employment green spaces public transport health services basic amenities air pollution school education security recycling citizen engagement 5.0% social mobility 3.3%

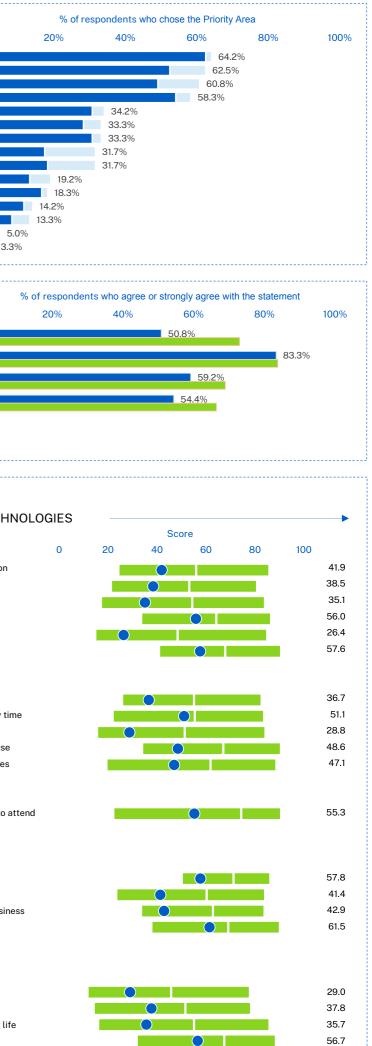
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

D		LEGEND: MIN C	ITY MEAN GROUP MAX
not in 2021	STRUCTURES		TECHNOLO
		core	
	Health & Safety 0 20 40	60 80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	40.8	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory	23.1	A website or App allows residents to easily give away unwanted items
FACIOR	Public safety is not a problem	33.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	29.0	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	51.4	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	22.5	Arranging medical appointments online has improved access
D	Mobility		Mobility
_	Traffic congestion is not a problem	8.1	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	30.4	Apps that direct you to an available parking space have reduced journey time
			Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
D			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	27.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	45.6	
	Opportunities (Work & School)		Opportunities (Work & School)
	Employment finding services are readily available	22.9	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	34.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	27.8	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	24.0	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome	47.4	
	Governance		Governance
	Information on local government decisions are easily accessible	53.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	12.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	15.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	26.3	Processing Identification Documents online has reduced waiting times

0%

0%



Amsterdam



CITY RATING

A

BACKGROUND INFORMATION

HDI

0.962



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.934	0.944	0.939	0.941	+0.002
Life expectancy at birth	82.1	82.3	81.6	81.7	+0.0
Expected years of schooling	18.0	18.5	18.0	18.0	+0.0
Mean years of schooling	12.2	12.4	12.6	12.6	+0.0
GNI per capita (PPP \$)	50,013	57,707	53,504	55,979	+2,476

PRIORITY AREAS

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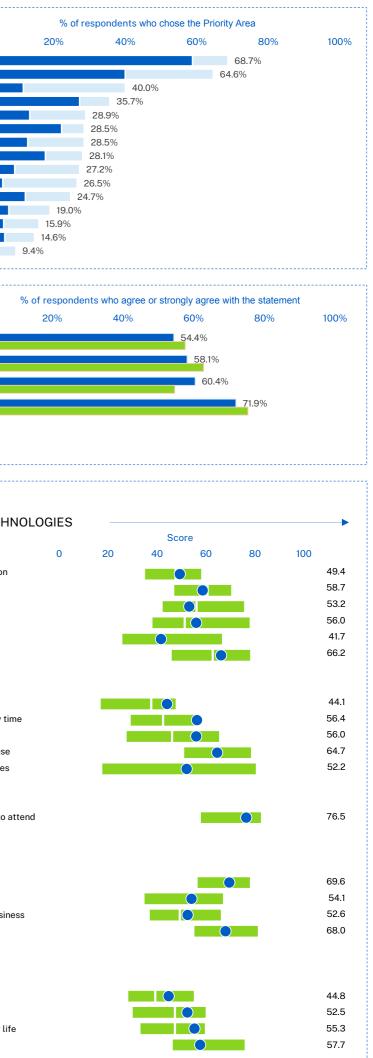
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0% affordable housing security health services air pollution public transport road congestion basic amenities green spaces unemployment school education citizen engagement recycling fulfilling employment social mobility corruption 9.4%

0%

ATTITUDES

A				LE	GEND: MIN	MEAN GROUP MAX
A in 2021	STRUC	TURES	Casar		•	TECHNO
	Health & Safety Basic sanitation meets the needs of the poorest areas	0 20	Score) 40	60 80	100 58.8	Health & Safety Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory Public safety is not a problem				60.5 46.5	A website or App allows residents to easily give away unwanted items Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem Medical services provision is satisfactory Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem			32.1 71.7 24.9	CCTV cameras has made residents feel safer A website or App allows residents to effectively monitor air pollution Arranging medical appointments online has improved access
BBB	Mobility Traffic congestion is not a problem			-	33.7	Mobility Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				62.9	Apps that direct you to an available parking space have reduced journey time Bicycle hiring has reduced congestion Online scheduling and ticket sales has made public transport easier to use The city provides information on traffic congestion through mobile phones
TECHNOLOGIES	Activities Green spaces are satisfactory Cultural activities (shows, bars, and museums) are satisfactory				56.0 78.7	Activities Online purchasing of tickets to shows and museums has made it easier to atter
GROUP	Opportunities (Work & School) Employment finding services are readily available Most children have access to a good school Lifelong learning opportunities are provided by local institutions Businesses are creating new jobs Minorities feel welcome				68.1 72.8 61.9 62.6 57.0	Opportunities (Work & School) Online access to job listings has made it easier to find work IT skills are taught well in schools Online services provided by the city has made it easier to start a new business The current internet speed and reliability meet connectivity needs
All ratings range from AAA to D	Governance Information on local government decisions are easily accessible Corruption of city officials is not an issue of concern Residents contribute to decision making of local government Residents provide feedback on local government projects				61.2 53.4 52.6 59.2	Governance Online public access to city finances has reduced corruption Online voting has increased participation An online platform where residents can propose ideas has improved city life Processing Identification Documents online has reduced waiting times



Ankara



CITY RATING

BACKGROUND INFORMATION



(Eurostat)

Country	2018	2019	2020	2021	1 yr change
HDI	0.807	0.820	0.833	0.838	+0.005
Life expectancy at birth	77.4	77.7	75.9	76.0	+0.2
Expected years of schooling	16.4	16.6	18.0	18.0	+0.0
Mean years of schooling	7.7	8.1	8.6	8.6	+0.0
GNI per capita (PPP \$)	24,905	27,701	28,317	31,033	+2,715

PRIORITY AREAS

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0% affordable housing unemployment green spaces road congestion fulfilling employment air pollution basic amenities corruption recycling school education public transport security health services citizen engagement 10.0% social mobility 8.7%

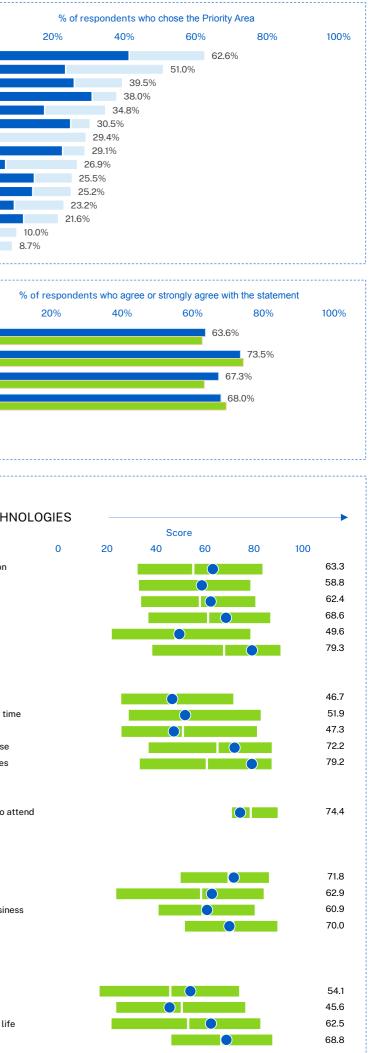
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ATTITUDES

LEGEND: GRO

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CCC		
CCC in 2021	STRUCTURES	TECHNOLO
		60 80 100 Health & Safety
	Basic sanitation meets the needs of the poorest areas	75.5 Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	64.0 A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	64.7 Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	37.9 CCTV cameras has made residents feel safer
i w (i ii t d d	Medical services provision is satisfactory	66.3 A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	37.5 Arranging medical appointments online has improved access
B	Mobility	Mobility
	Traffic congestion is not a problem	36.5 Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	57.5 Apps that direct you to an available parking space have reduced journey time
		Bicycle hiring has reduced congestion
		Online scheduling and ticket sales has made public transport easier to use
CCC		The city provides information on traffic congestion through mobile phones
	Activities	Activities
TECHNOLOGIES	Green spaces are satisfactory	57.8 Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	68.0
	Opportunities (Work & School)	Opportunities (Work & School)
GROUP	Employment finding services are readily available	62.2 Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	55.2 IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	67.5 Online services provided by the city has made it easier to start a new business
つ	Businesses are creating new jobs	55.0 The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome	62.3
	Governance	Governance
	Information on local government decisions are easily accessible	74.5 Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	41.8 Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	56.9 An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	61.4 Processing Identification Documents online has reduced waiting times



Athens



BACKGROUND INFORMATION

City	
Population	HDI
3,736,737	0.909

(Eurostat)

stanbul .Arkara .Carc

Country	2018	2019	2020	2021	1 yr change
HDI	0.872	0.888	0.886	0.887	+0.001
Life expectancy at birth	82.1	82.2	80.9	80.1	-0.8
Expected years of schooling	17.3	17.9	18.0	18.0	+0.0
Mean years of schooling	10.5	10.6	11.4	11.4	+0.0
GNI per capita (PPP \$)	24,909	30,155	26,681	29,002	+2,322

PRIORITY AREAS

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security unemployment road congestion health services affordable housing green spaces corruption fulfilling employment air pollution basic amenities public transport recycling school education citizen engagement 9.0% social mobility 8.0%

0%

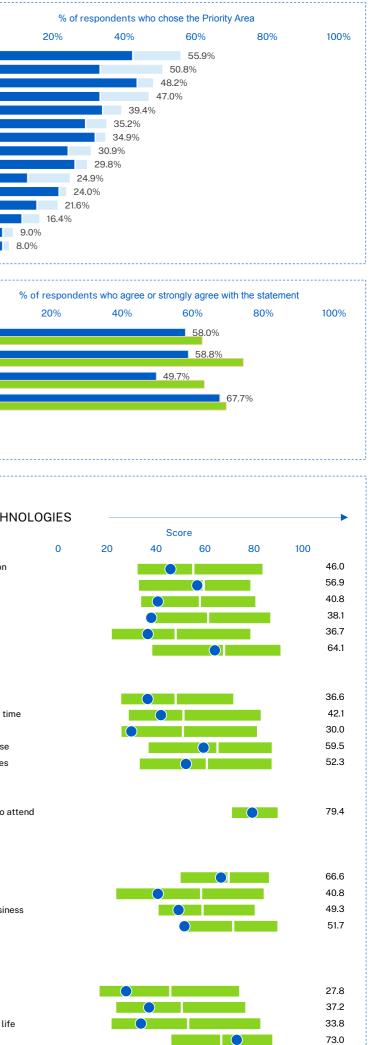
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

						LEGEN	D: MIN		MEAN GROUP MAX
C in 2021	< STRUC	TURES							TECHNOL
				Score					
	Health & Safety	0	20	40	60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas							57.8	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory							39.1	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem							31.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem							22.2	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory			\bigcirc			:	38.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem	\bigcirc					22.8	Arranging medical appointments online has improved access
C	Mobility								Mobility
	Traffic congestion is not a problem							14.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory							28.1	Apps that direct you to an available parking space have reduced journey time
									Bicycle hiring has reduced congestion
									Online scheduling and ticket sales has made public transport easier to use
C									The city provides information on traffic congestion through mobile phones
	Activities								Activities
TECHNOLOGIES	Green spaces are satisfactory)				30.8	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				\bigcirc			69.2	
	Opportunities (Work & School)								Opportunities (Work & School)
	Employment finding services are readily available							37.3	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school			\bigcirc				39.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions			\bigcirc				40.3	Online services provided by the city has made it easier to start a new business
9	Businesses are creating new jobs							32.3	The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome							32.1	
	Governance								Governance
	Information on local government decisions are easily accessible			\bigcirc				39.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern							19.0	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government							23.0	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects							38.1	Processing Identification Documents online has reduced waiting times



Auckland



BACKGROUND INFORMATION

HDI

0.951

City	
Population	
1,346,091	



AA in 2021

FACTOR RATINGS

Α STRUCTURES

A TECHNOLOGIES

GROUP



(UN Data)		



Country	2018	2019	2020	2021	1 yr change
HDI	0.936	0.937	0.936	0.937	+0.001
Life expectancy at birth	82.4	82.6	82.7	82.5	-0.3
Expected years of schooling	18.0	18.0	18.0	18.0	+0.0
Mean years of schooling	13.1	7.9	8.7	8.7	+0.0
GNI per capita (PPP \$)	16,129	17,781	16,804	17,030	+226
GNI per capita (PPP \$)	16,129	17,781	16,804	17,030	+226

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0% affordable housing road congestion health services public transport security unemployment fulfilling employment basic amenities school education recycling air pollution corruption green spaces 10.7% citizen engagement 10.2% social mobility

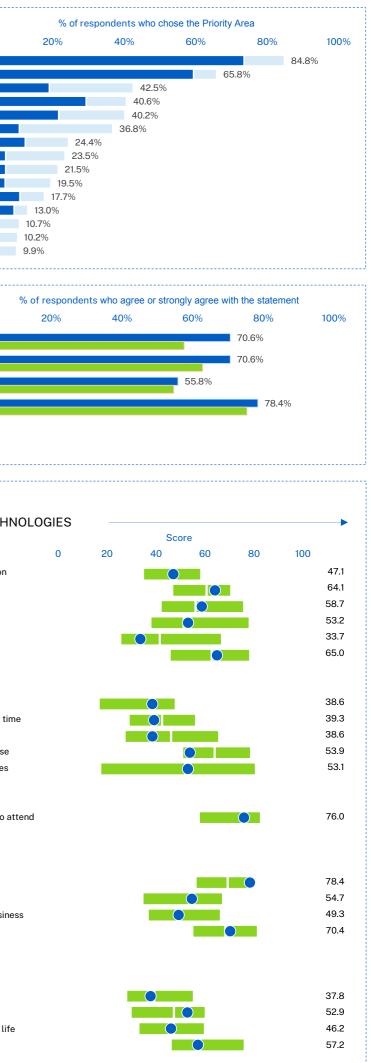
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ATTITUDES

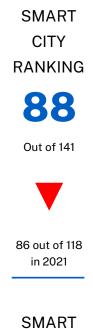
LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

STRUCTURES						TECHNOL
		Sco	ore			
Health & Safety 0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas					72.2	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory					75.9	A website or App allows residents to easily give away unwanted items
Public safety is not a problem					49.3	Free public wifi has improved access to city services
Air pollution is not a problem			\bigcirc		58.4	CCTV cameras has made residents feel safer
Medical services provision is satisfactory					65.4	A website or App allows residents to effectively monitor air pollution
inding housing with rent equal to 30% or less of a monthly salary is not a problem	\bigcirc				20.9	Arranging medical appointments online has improved access
Mobility						Mobility
Traffic congestion is not a problem					17.2	Car-sharing Apps have reduced congestion
Public transport is satisfactory		\bigcirc			43.5	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
						The city provides information on traffic congestion through mobile phones
Activities						Activities
Green spaces are satisfactory					70.0	Online purchasing of tickets to shows and museums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory					79.6	
Opportunities (Work & School)						Opportunities (Work & School)
Employment finding services are readily available					69.9	Online access to job listings has made it easier to find work
Most children have access to a good school					74.0	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions					68.5	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs					60.9	The current internet speed and reliability meet connectivity needs
Minorities feel welcome			\bigcirc		61.1	
Governance						Governance
Information on local government decisions are easily accessible					59.4	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern			\bigcirc		55.7	Online voting has increased participation
Residents contribute to decision making of local government					54.3	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects					61.9	Processing Identification Documents online has reduced waiting times



Bangkok



CITY RATING

B

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)

Country	2018	2019	2020	2021	1 yr change
HDI	0.765	0.777	0.802	0.800	-0.002
Life expectancy at birth	76.9	77.2	79.3	78.7	-0.5
Expected years of schooling	14.7	15.0	15.9	15.9	+0.0
Mean years of schooling	7.7	7.9	8.7	8.7	+0.0
GNI per capita (PPP \$)	16,129	17,781	16,804	17,030	+226

PRIORITY AREAS

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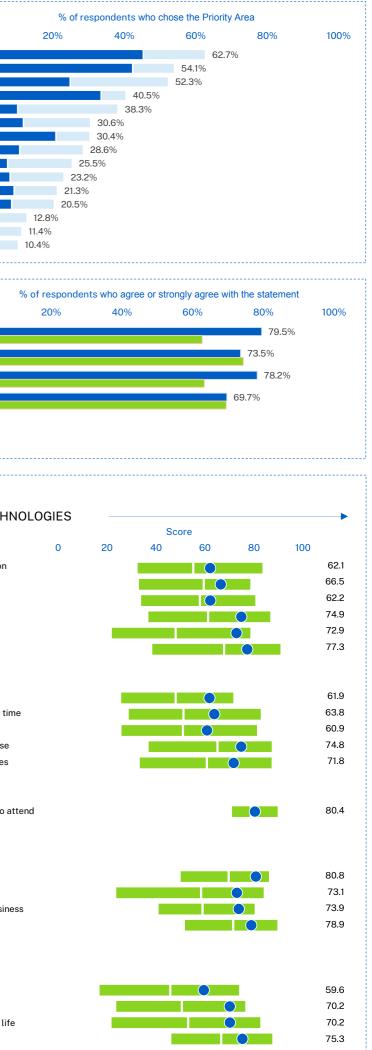
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0% air pollution corruption security road congestion basic amenities health services public transport unemployment fulfilling employment green spaces affordable housing social mobility school education recycling 11.4% citizen engagement 10.4%

0%

ATTITUDES

D					LEGEN	D: MIN 🔶	MEAN GROUP MAX
CCC in 2021	STRUC	TURES					TECHNOL
				Score			
	Health & Safety	0	20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				\bigcirc	71.8	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					62.8	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					50.1	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					35.2	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					65.3	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	oblem				51.8	Arranging medical appointments online has improved access
CCC	Mobility						Mobility
	Traffic congestion is not a problem	_				26.1	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					43.4	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
B							The city provides information on traffic congestion through mobile phones
D	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					61.5	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					65.4	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					63.6	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					60.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions		_			61.7	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					68.4	The current internet speed and reliability meet connectivity needs
5	Minorities feel welcome					57.3	
	Governance						Governance
	Information on local government decisions are easily accessible					53.7	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	-				36.6	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	_				53.0	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					57.6	Processing Identification Documents online has reduced waiting times
	· · · · · · · · · · · · · · · · · · ·						



Barcelona



BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.893	0.904	0.899	0.905	+0.006
Life expectancy at birth	83.4	83.6	82.3	83.0	+0.7
Expected years of schooling	17.9	17.6	17.9	17.9	+0.0
Mean years of schooling	9.8	10.3	10.6	10.6	+0.0
GNI per capita (PPP \$)	35,041	40,975	36,516	38,354	+1,838

PRIORITY AREAS

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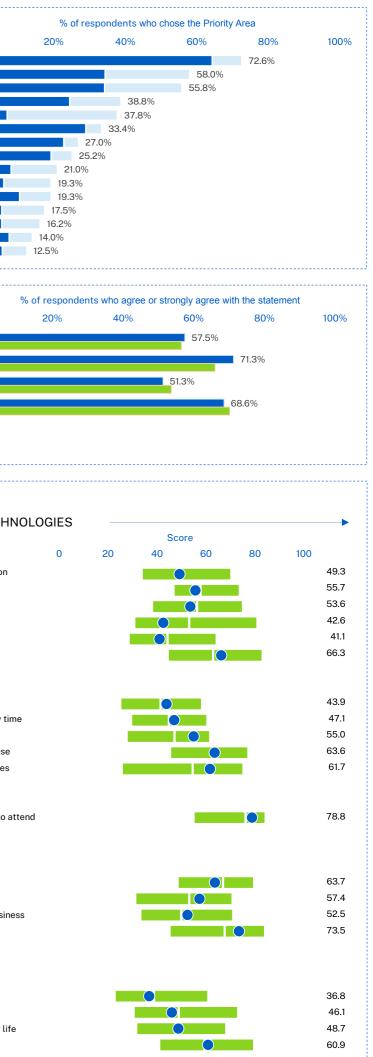
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0% affordable housing security fulfilling employment health services unemployment air pollution road congestion corruption school education green spaces public transport recycling basic amenities citizen engagement social mobility

0%

ATTITUDES

BB	·						
DD					LEGEN	ID: MIN	CITY MEAN GROUP MAX
BB in 2021	STRUCTL	JRES				•	TECHNOL
	Health & Safety	0	20	Score 40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					65.0	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				,	61.0	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					49.1	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					26.8	CCTV cameras has made residents feel safer
NATINGS	Medical services provision is satisfactory					53.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a proble	m				18.8	Arranging medical appointments online has improved access
BB	Mobility						Mobility
	Traffic congestion is not a problem					27.4	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					64.1	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					62.4	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					76.0	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					73.9	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					61.5	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					67.1	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					45.3	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome					51.1	
	Governance						Governance
	Information on local government decisions are easily accessible					50.1	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					34.4	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					35.5	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					42.5	Processing Identification Documents online has reduced waiting times



Beijing



SMART

CITY RATING

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



Country	2018	2019	2020	2021	1 yr change
HDI	0.758	0.761	0.764	0.768	+0.004
Life expectancy at birth	76.7	76.9	78.1	78.2	+0.1
Expected years of schooling	13.9	14.0	14.2	14.2	+0.0
Mean years of schooling	7.9	8.1	7.6	7.6	+0.0
GNI per capita (PPP \$)	16,127	16,057	16,201	17,504	+1,303

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% road congestion air pollution affordable housing corruption health services fulfilling employment basic amenities social mobility school education public transport unemployment security recycling green spaces citizen engagement

0%

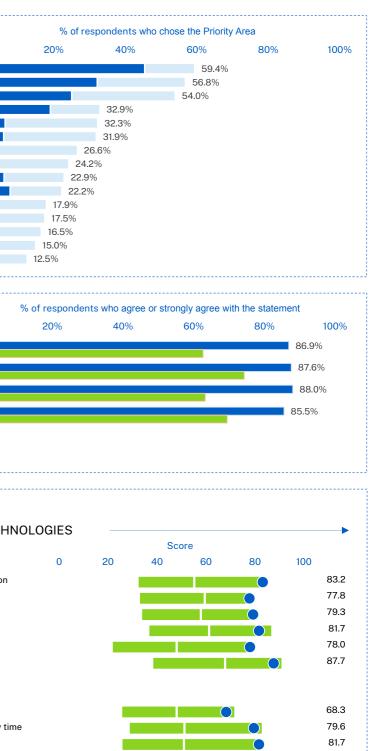
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

BB						·	
					LEGEN	D: MIN	CITY MEAN GROUP MAX
BB in 2021	STRL	JCTURES				•	TECHNOI
	Health & Safety	0	20	Score 40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	· ·				82.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					80.6	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					78.3	Free public wifi has improved access to city services
	Air pollution is not a problem					52.0	CCTV cameras has made residents feel safer
RATINGS						79.9	
	Medical services provision is satisfactory						A website or App allows residents to effectively monitor air pollution
DD	Finding housing with rent equal to 30% or less of a monthly salary is not a p	problem				56.2	Arranging medical appointments online has improved access
BB	Mobility						Mobility
	Traffic congestion is not a problem					35.4	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					67.2	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					79.6	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory					86.0	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available			_		80.9	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					78.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					69.9	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					79.9	The current internet speed and reliability meet connectivity needs
						80.2	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome					00.2	
	Governance						Governance
	Information on local government decisions are easily accessible				\bigcirc	79.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					58.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					66.2	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					76.6	Processing Identification Documents online has reduced waiting times



- tend

- SS

- 83.9 \bigcirc
- 74.4 76.9 82.3
- 84.3 81.6 79.8 88.5

87.7

86.7

90.1

Beirut

CITY RANKING 139 Out of 141

not out of 118

in 2021

SMART

CITY RATING

D

SMART

BACKGROUND INFORMATION



HDI 2,433,155 0.677

(UN World Urbanisation Prospects 2022 estimate)

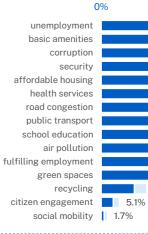


Country	2018	2019	2020	2021	1 yr change
HDI	0.750	0.745	0.726	0.706	-0.020
Life expectancy at birth	79.7	79.2	77.8	75.1	-2.8
Expected years of schooling	11.3	11.3	11.3	11.3	+0.0
Mean years of schooling	8.7	8.7	8.7	8.7	+0.0
GNI per capita (PPP \$)	15,586	14,378	11,201	9,526	-1,676

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

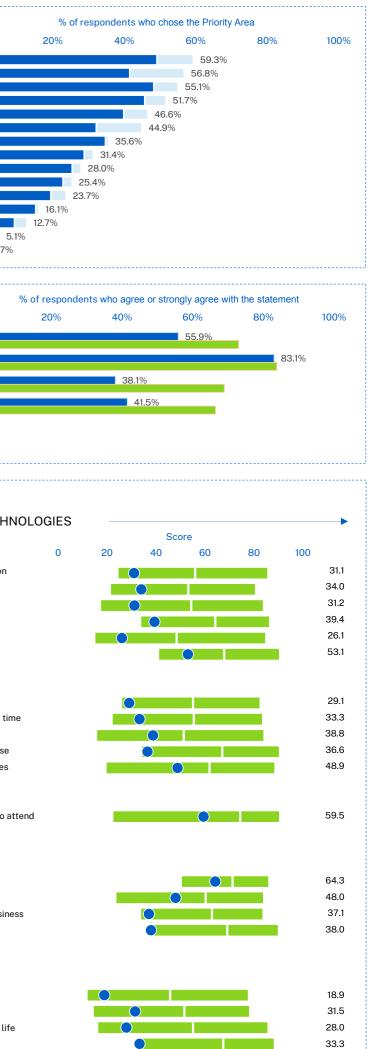
The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



0%

ATTITUDES

ν					LEGEN	ID: MIN	•	CITY MEAN GROUP MAX
not in 2021	STRUCTURES						-	TECHNOLO
			Scor					
	Health & Safety 0	20	40	60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas						28.1	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory						24.9	A website or App allows residents to easily give away unwanted items
TACION	Public safety is not a problem						24.7	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						14.0	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory						31.9	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem						20.2	Arranging medical appointments online has improved access
D	Mobility							Mobility
_	Traffic congestion is not a problem						11.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory						17.5	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
D								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						25.0	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory						55.4	
	Opportunities (Work & School)							Opportunities (Work & School)
	Employment finding services are readily available						25.4	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school						21.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						24.0	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs						25.0	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome		\bigcirc				42.8	
	Governance							Governance
	Information on local government decisions are easily accessible	-					38.1	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						13.3	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government						17.5	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						21.5	Processing Identification Documents online has reduced waiting times
	Residente provide recuback on todat Boverninent projecta						21.0	receiver a sentimetation bocaments online has reduced waiting times



Belfast



SMART

BACKGROUND INFORMATION

City	
Population	HDI
341,506	0.896

(Eurostat)

in 2021

SMART **CITY RATING**

> CC not in 2021

FACTOR RATINGS CCC STRUCTURES

CC TECHNOLOGIES





All ratings range from AAA to D

Country	2018	2019	2020	2021	1 yr change	
HDI	0.929	0.935	0.924	0.929	+0.005	
Life expectancy at birth	81.1	81.7	80.4	80.7	+0.3	
Expected years of schooling	17.3	17.3	17.3	17.3	+0.0	
Mean years of schooling	13.2	13.3	13.4	13.4	+0.0	
GNI per capita (PPP \$)	46,226	47,252	42,375	45,225	+2,850	

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0% affordable housing health services unemployment public transport security road congestion fulfilling employment school education corruption recycling social mobility green spaces air pollution basic amenities 11.7% citizen engagement 10.0%

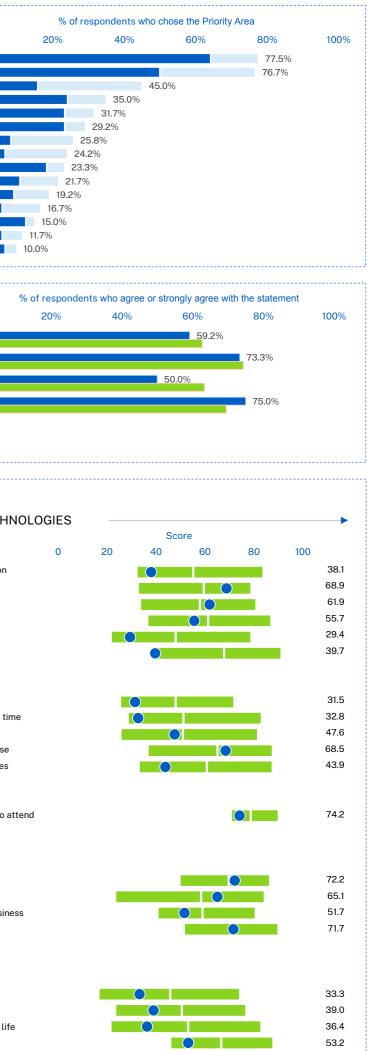
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

				LEGE	ND: MIN		_,
•	STRUCTURES		Score			TECHNOLOGIE	- 2
Health & Safety	0	20		60 80	100	Health & Safety)
Basic sanitation meets the needs of the poorest areas					60.8	Online reporting of city maintenance problems provides a speedy solution	
Recycling services are satisfactory					65.0	A website or App allows residents to easily give away unwanted items	
Public safety is not a problem					43.6	Free public wifi has improved access to city services	
Air pollution is not a problem					39.6	CCTV cameras has made residents feel safer	
Medical services provision is satisfactory					42.5	A website or App allows residents to effectively monitor air pollution	
Finding housing with rent equal to 30% or less of a monthly salary	is not a problem	\bigcirc		•	27.6	Arranging medical appointments online has improved access	
Mobility						Mobility	
Traffic congestion is not a problem					27.1	Car-sharing Apps have reduced congestion	
Public transport is satisfactory					49.9	Apps that direct you to an available parking space have reduced journey time	
						Bicycle hiring has reduced congestion	
						Online scheduling and ticket sales has made public transport easier to use	
						The city provides information on traffic congestion through mobile phones	
Activities						Activities	
Green spaces are satisfactory					61.3	Online purchasing of tickets to shows and museums has made it easier to attend	
Cultural activities (shows, bars, and museums) are satisfactory					75.8		
Opportunities (Work & School)						Opportunities (Work & School)	
Employment finding services are readily available					69.0	Online access to job listings has made it easier to find work	
Most children have access to a good school					75.4	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institutions					67.4	Online services provided by the city has made it easier to start a new business	
Businesses are creating new jobs					64.0	The current internet speed and reliability meet connectivity needs	
Minorities feel welcome					53.6		
Governance						Governance	
Information on local government decisions are easily accessible					49.3	Online public access to city finances has reduced corruption	
Corruption of city officials is not an issue of concern					38.1	Online voting has increased participation	
Residents contribute to decision making of local government					38.6	An online platform where residents can propose ideas has improved city life	
Residents provide feedback on local government projects					46.1	Processing Identification Documents online has reduced waiting times	



Bengaluru



BACKGROUND INFORMATION



Population	HDI
13,193,035	0.667

(UN World Urbanisation Prospects 2022 estimate)

Attraction Attrac

Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreet

Country	2018	2019	2020	2021	1 yr change
HDI	0.647	0.645	0.642	0.633	-0.009
Life expectancy at birth	69.4	69.7	70.2	67.2	-2.9
Expected years of schooling	12.3	12.2	11.9	11.9	+0.0
Mean years of schooling	6.5	6.5	6.7	6.7	+0.0
GNI per capita (PPP \$)	6,829	6,681	6,107	6,590	+482

PRIORITY AREAS

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0% air pollution road congestion basic amenities corruption affordable housing fulfilling employment recycling green spaces health services security unemployment public transport social mobility citizen engagement school education

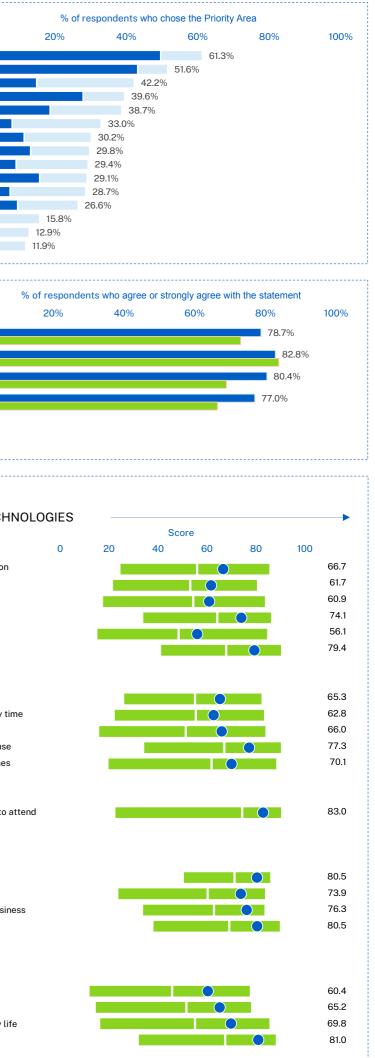
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CC						·	
					LEGEN	D: MIN	MEAN GROUP MAX
CC in 2021	STRUC	TURES		Score		•	TECHNOL
	Health & Safety	0	20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					66.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					64.7	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					50.1	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					31.6	CCTV cameras has made residents feel safer
NATING S	Medical services provision is satisfactory					72.7	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem				52.1	Arranging medical appointments online has improved access
CC	Mobility						Mobility
	Traffic congestion is not a problem					26.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					64.9	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
CC							The city provides information on traffic congestion through mobile phones
•••	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					70.5	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					78.3	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					74.9	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					74.6	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				\bigcirc	68.4	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					78.1	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome					70.8	
	Governance						Governance
	Information on local government decisions are easily accessible					71.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern			\bigcirc		40.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					60.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					64.5	Processing Identification Documents online has reduced waiting times



Berlin



BACKGROUND INFORMATION



(Eurostat)

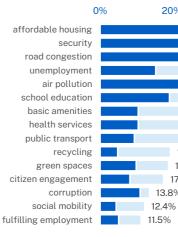


Country	2018	2019	2020	2021	1 yr change
HDI	0.939	0.947	0.944	0.942	-0.002
Life expectancy at birth	81.2	81.3	81.2	80.6	-0.5
Expected years of schooling	17.1	17.0	17.0	17.0	+0.0
Mean years of schooling	14.1	14.2	14.1	14.1	+0.0
GNI per capita (PPP \$)	46,946	55,314	53,078	54,534	+1,457

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0%

ATTITUDES

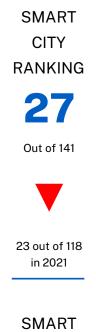
LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

BBB					;	·	
					LEGEN	D: MIN	CITY MEAN GROUP MAX
BBB in 2021	▲ ST	RUCTURES		Score			TECHNO
	Health & Safety	0	20 40		80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					64.	0 Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					67.	8 A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					44.	8 Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					35.	2 CCTV cameras has made residents feel safer
	Medical services provision is satisfactory)	67.	2 A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is no	t a problem				25.	7 Arranging medical appointments online has improved access
BBB	Mobility						Mobility
	Traffic congestion is not a problem					33.	3 Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					60.	7 Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BBB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					60.	9 Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory					72.	9
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					58	2 Online access to job listings has made it easier to find work
UNOUF	Most children have access to a good school					53.	3 IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					53.	6 Online services provided by the city has made it easier to start a new business
1	Businesses are creating new jobs					57	.1 The current internet speed and reliability meet connectivity needs
	Minorities feel welcome					55.	3
	Governance						Governance
	Information on local government decisions are easily accessible					50.	7 Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern			\bigcirc		47.	
All ratings range	Residents contribute to decision making of local government					44.	7 An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					50.	5 Processing Identification Documents online has reduced waiting times



Bilbao



CITY RATING

BBB

BBB in 2021

FACTOR

RATINGS

BBB

STRUCTURES

BBB

TECHNOLOGIES

GROUP

2

All ratings range

from AAA to D

BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.893	0.904	0.899	0.905	+0.006
Life expectancy at birth	83.4	83.6	82.3	83.0	+0.7
Expected years of schooling	17.9	17.6	17.9	17.9	+0.0
Mean years of schooling	9.8	10.3	10.6	10.6	+0.0
GNI per capita (PPP \$)	35,041	40,975	36,516	38,354	+1,838

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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affordable housing fulfilling employment unemployment security health services citizen engagement corruption road congestion air pollution school education social mobility green spaces public transport recycling basic amenities

ATTITUDES

LEGEND:

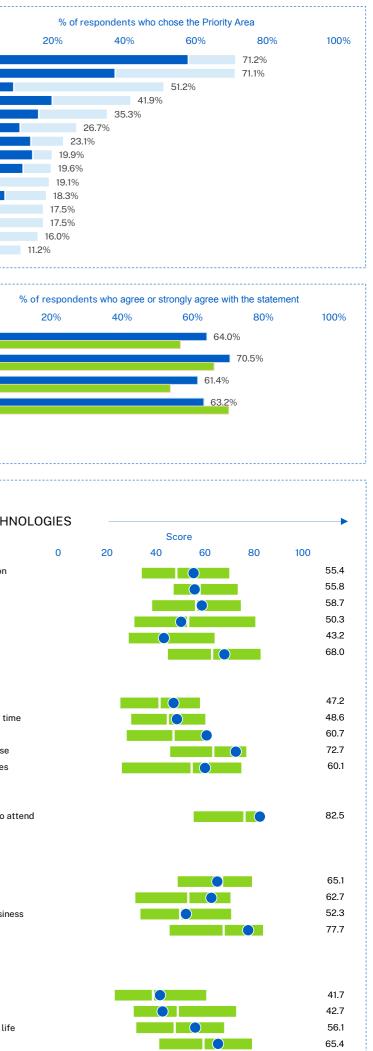
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

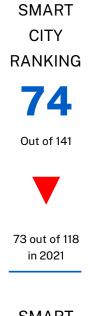
STRUCTUI	RES					>	<pre>TECH</pre>
31100101	NL0		Sco	re			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						76.4	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory						76.0	A website or App allows residents to easily give away unwanted items
Public safety is not a problem						62.2	Free public wifi has improved access to city services
Air pollution is not a problem)		50.2	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						69.0	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a problem	n					25.4	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem			\bigcirc			47.0	Car-sharing Apps have reduced congestion
Public transport is satisfactory						82.8	Apps that direct you to an available parking space have reduced journey
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to us
							The city provides information on traffic congestion through mobile phone
Activities							Activities
Green spaces are satisfactory						78.9	Online purchasing of tickets to shows and museums has made it easier to
Cultural activities (shows, bars, and museums) are satisfactory						84.0	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						75.4	Online access to job listings has made it easier to find work
Most children have access to a good school						76.2	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						76.2	Online services provided by the city has made it easier to start a new bus
Businesses are creating new jobs			(50.9	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						63.8	
Governance							Governance
Information on local government decisions are easily accessible						61.9	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						51.6	Online voting has increased participation
Residents contribute to decision making of local government						48.4	An online platform where residents can propose ideas has improved city
Residents provide feedback on local government projects						54.9	Processing Identification Documents online has reduced waiting times

0%

0%



Birmingham



BACKGROUND INFORMATION



(Eurostat)

1,148,862

SMART CITY RATING



B in 2021

FACTOR RATINGS

STRUCTURES

BB

GROUP



All ratings range from AAA to D

HDI 0.913



Country HDI	2018 0.920	2019 0.932	2020 0.924	2021 0.929	1 yr change +0.005
Life expectancy at birth	81.2	81.3	80.4	80.7	+0.3
Expected years of schooling	17.4	17.5	17.3	17.3	+0.0
Mean years of schooling	13.0	13.2	13.4	13.4	+0.0
GNI per capita (PPP \$)	39,507	46,071	42,375	45,225	+2,850

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0% affordable housing security health services road congestion unemployment air pollution fulfilling employment green spaces recycling school education public transport basic amenities social mobility corruption 11.8% citizen engagement 7.3%

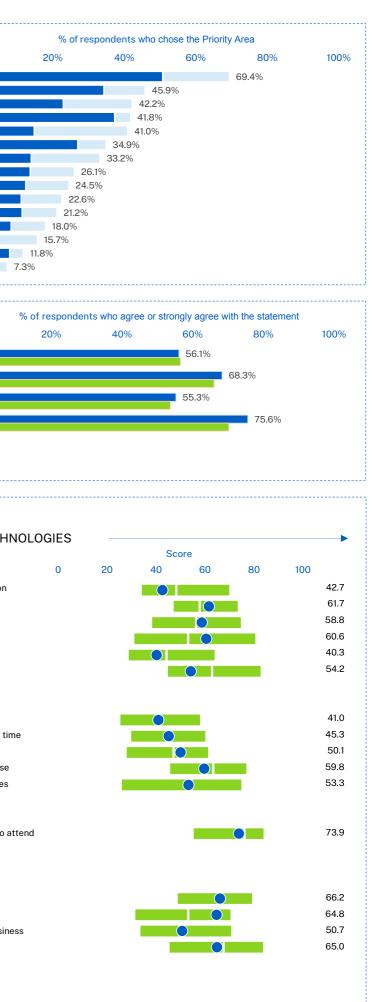
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

	I	LEGEND: MIN	TTY MEAN GROUP MAX					
STRUCTURES			TECHNOLOG	GIES				
	Score					Score		
Health & Safety 0 2	20 40 60 8	80 100	Health & Safety	0	20	40 60	80	100
Basic sanitation meets the needs of the poorest areas		56.1	Online reporting of city maintenance problems provides a speedy solution					42.7
Recycling services are satisfactory		63.3	A website or App allows residents to easily give away unwanted items					61.7
Public safety is not a problem		35.9	Free public wifi has improved access to city services					58.8
Air pollution is not a problem		32.3	CCTV cameras has made residents feel safer					60.6
Medical services provision is satisfactory		55.2	A website or App allows residents to effectively monitor air pollution					40.3
Finding housing with rent equal to 30% or less of a monthly salary is not a problem		36.3	Arranging medical appointments online has improved access					54.2
Mobility			Mobility					
Traffic congestion is not a problem		25.3	Car-sharing Apps have reduced congestion					41.0
Public transport is satisfactory		49.9	Apps that direct you to an available parking space have reduced journey time					45.3
			Bicycle hiring has reduced congestion					50.1
			Online scheduling and ticket sales has made public transport easier to use					59.8
			The city provides information on traffic congestion through mobile phones					53.3
Activities			Activities					
Green spaces are satisfactory		61.3	Online purchasing of tickets to shows and museums has made it easier to attend					73.9
Cultural activities (shows, bars, and museums) are satisfactory		72.4						
Opportunities (Work & School)			Opportunities (Work & School)					
Employment finding services are readily available		63.4	Online access to job listings has made it easier to find work					66.2
Most children have access to a good school		60.2	IT skills are taught well in schools					64.8
Lifelong learning opportunities are provided by local institutions		57.6	Online services provided by the city has made it easier to start a new business					50.7
Businesses are creating new jobs		60.4	The current internet speed and reliability meet connectivity needs					65.0
Minorities feel welcome		66.1						
Governance			Governance					
Information on local government decisions are easily accessible		58.8	Online public access to city finances has reduced corruption					46.5
Corruption of city officials is not an issue of concern		44.9	Online voting has increased participation					55.0
Residents contribute to decision making of local government		48.8	An online platform where residents can propose ideas has improved city life					46.9
Residents provide feedback on local government projects		54.8	Processing Identification Documents online has reduced waiting times					53.2



Bogota



D

BACKGROUND INFORMATION



(UN Data)



C BY 3.0 Map Data

Country	2018	2019	2020	2021	1 yr change
HDI	0.761	0.767	0.756	0.752	-0.004
Life expectancy at birth	77.1	77.3	74.8	72.8	-1.9
Expected years of schooling	14.6	14.4	14.4	14.4	+0.0
Mean years of schooling	8.3	8.5	8.9	8.9	+0.0
GNI per capita (PPP \$)	12,896	14,257	13,185	14,384	+1,199

PRIORITY AREAS

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0% security health services corruption unemployment public transport air pollution fulfilling employment affordable housing road congestion basic amenities social mobility school education recycling green spaces 9.3% citizen engagement 6.0%

0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

						LEGEN	D: MIN	CIT	MEAN GROUP MAX		
D in 2021	STRUC	TURES						-	•		TECHNOLO
				Score	1						
Health & Safety		0	20	40	60	80	100		Health & Safety		
Basic sanitation meets	the needs of the poorest areas							32.3	Online reporting of city m	aintenance problems provides a speedy	solution
Recycling services are	satisfactory			\bigcirc				41.9	A website or App allows r	esidents to easily give away unwanted i	tems
FACTOR Public safety is not a pr	roblem		\bigcirc					17.4	Free public wifi has impro	ved access to city services	
RATINGS Air pollution is not a pro	oblem		\bigcirc					17.5	CCTV cameras has made	residents feel safer	
Medical services provis	ion is satisfactory			\bigcirc				40.5	A website or App allows r	esidents to effectively monitor air pollu	tion
Finding housing with re	nt equal to 30% or less of a monthly salary is not a pro	blem						24.7	Arranging medical appoin	tments online has improved access	
D Mobility									Mobility		
Traffic congestion is no	ot a problem							14.5	Car-sharing Apps have re	duced congestion	
STRUCTURES Public transport is satis	sfactory							22.0	Apps that direct you to an	available parking space have reduced j	ourney time
									Bicycle hiring has reduced	d congestion	
									Online scheduling and ticl	ket sales has made public transport eas	ier to use
C									The city provides informat	tion on traffic congestion through mobil	e phones
Activities									Activities		
TECHNOLOGIES Green spaces are satisf	factory							64.4	Online purchasing of ticke	ets to shows and museums has made it e	easier to attend
Cultural activities (shov	vs, bars, and museums) are satisfactory				\bigcirc			70.5			
Opportunities (W	/ork & School)								Opportunities (Wo	rk & School)	
Employment finding se	rvices are readily available							51.7		gs has made it easier to find work	
GROUP Most children have accu	ess to a good school							8.9	IT skills are taught well in	schools	
Lifelong learning oppor	rtunities are provided by local institutions							41.2	Online services provided b	by the city has made it easier to start a r	new business
Businesses are creating	g new jobs			\bigcirc				37.2	The current internet spee	d and reliability meet connectivity need	s
Minorities feel welcome	e							29.9			
Governance									Governance		
Information on local go	vernment decisions are easily accessible			\bigcirc				13.0	Online public access to ci	ty finances has reduced corruption	
Corruption of city offici	als is not an issue of concern							16.6	Online voting has increase	ed participation	
All ratings range Residents contribute to	decision making of local government							25.6	An online platform where	residents can propose ideas has improv	ed city life
from AAA to D Residents provide feed	back on local government projects							35.4	Processing Identification	Documents online has reduced waiting t	times



Bologna



SMART

CITY RATING

BB

BACKGROUND INFORMATION



(Eurostat)



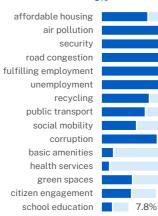
Country	2018	2019	2020	2021	1 yr change
HDI	0.883	0.892	0.889	0.895	+0.006
Life expectancy at birth	83.4	83.5	82.4	82.9	+0.4
Expected years of schooling	16.2	16.1	16.2	16.2	+0.0
Mean years of schooling	10.2	10.4	10.7	10.7	+0.0
GNI per capita (PPP \$)	36,141	42,776	39,901	42,840	+2,939

PRIORITY AREAS

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benefit from close observation.



ATTITUDES

LEGEND:

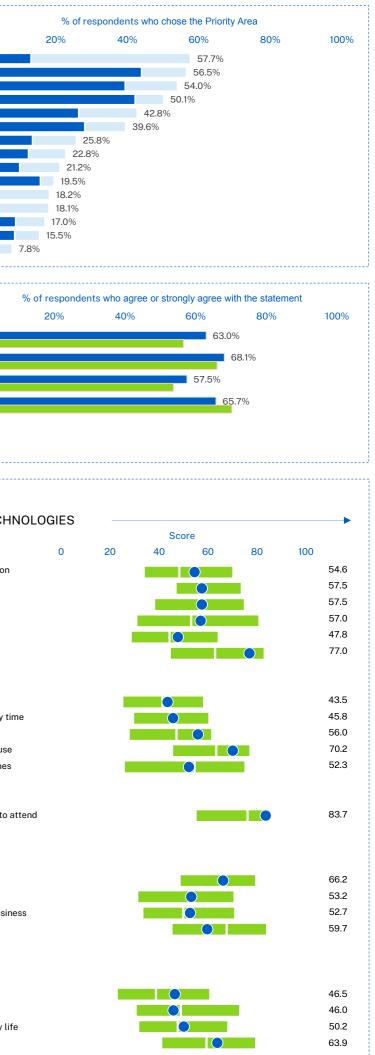
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

DD						LEGEN	D: MIN	CITY MEAN GROUP MAX	
BB in 2021	STRUCT	URES						TEC	HNOLO
				Sco	re				
	Health & Safety	0	20	40	60	80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas						72.5	Online reporting of city maintenance problems provides a speedy solution	n
	Recycling services are satisfactory)	70.7	A website or App allows residents to easily give away unwanted items	
FACTOR	Public safety is not a problem			\bigcirc			44.9	Free public wifi has improved access to city services	
RATINGS	Air pollution is not a problem)			29.5	CCTV cameras has made residents feel safer	
	Medical services provision is satisfactory						74.2	A website or App allows residents to effectively monitor air pollution	
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	em					73.0	Arranging medical appointments online has improved access	
BBB									
DDD	Mobility							Mobility	
	Traffic congestion is not a problem						29.6	Car-sharing Apps have reduced congestion	
STRUCTURES	Public transport is satisfactory						62.7	Apps that direct you to an available parking space have reduced journey	time
								Bicycle hiring has reduced congestion	
								Online scheduling and ticket sales has made public transport easier to us	se
BB								The city provides information on traffic congestion through mobile phone	es
	Activities							Activities	
TECHNOLOGIES	Green spaces are satisfactory						72.9	Online purchasing of tickets to shows and museums has made it easier to	o attend
	Cultural activities (shows, bars, and museums) are satisfactory						79.9		
	Opportunities (Work & School)							Opportunities (Work & School)	
	Employment finding services are readily available			\bigcirc			41.1	Online access to job listings has made it easier to find work	
GROUP	Most children have access to a good school						70.4	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions						66.4	Online services provided by the city has made it easier to start a new bus	siness
	Businesses are creating new jobs			(51.4	The current internet speed and reliability meet connectivity needs	
2	Minorities feel welcome						54.9		
	Governance							Governance	
	Information on local government decisions are easily accessible						62.1	Online public access to city finances has reduced corruption	
	Corruption of city officials is not an issue of concern						43.1	Online voting has increased participation	
All ratings range	Residents contribute to decision making of local government						44.4	An online platform where residents can propose ideas has improved city	life
from AAA to D	Residents provide feedback on local government projects						51.6	Processing Identification Documents online has reduced waiting times	

0%

0%



Bordeaux



CITY RATING

BACKGROUND INFORMATION

City	
Population	HDI
3,511,921	0.900

(Eurostat)



sign CC BY 3.0 Map

Country	2018	2019	2020	2021	1 yr change
HDI	0.891	0.901	0.898	0.903	+0.005
Life expectancy at birth	82.5	82.7	82.2	82.5	+0.3
Expected years of schooling	15.5	15.6	15.8	15.8	+0.0
Mean years of schooling	11.4	11.5	11.6	11.6	+0.0
GNI per capita (PPP \$)	40,511	47,173	43,048	45,937	+2,889

PRIORITY AREAS

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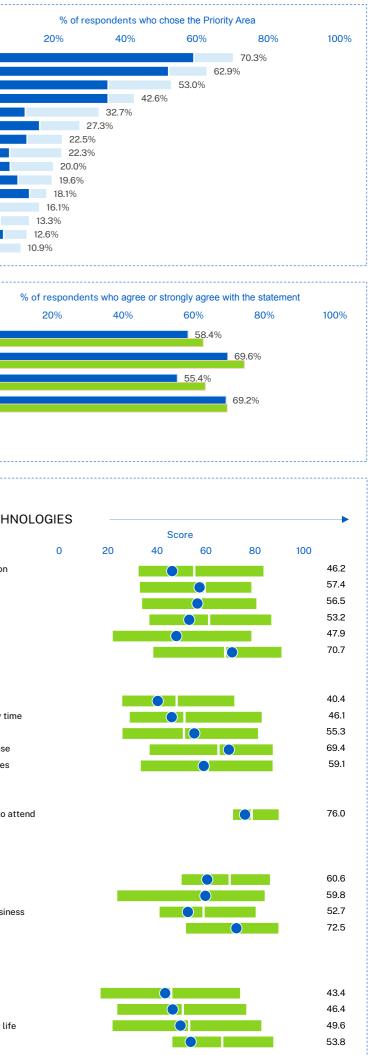
0% affordable housing road congestion security air pollution unemployment health services public transport recycling basic amenities fulfilling employment corruption green spaces school education social mobility citizen engagement 10.9%

ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: GR CITY

CCC	·				;	·	
					LEGEND:	: MIN 🔵 (MEAN GROUP MAX
CCC in 2021	STRI	UCTURES				•	TECHNOL
	Health & Safety	0	20 40	core 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					57.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					64.5	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					43.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					31.1	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory					63.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	problem				22.7	Arranging medical appointments online has improved access
CCC	Mobility						Mobility
	Traffic congestion is not a problem	_				22.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					61.9	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
CC							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory				\bigcirc	79.9	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					85.0	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					64.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					70.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					64.0	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					60.5	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome			\bigcirc		59.4	
	Governance						Governance
	Information on local government decisions are easily accessible					61.9	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					47.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					45.6	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects			\bigcirc		51.8	Processing Identification Documents online has reduced waiting times

0%



Boston



Α

BACKGROUND INFORMATION



(UN Data)



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Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.926	0.920	0.921	+0.001
Life expectancy at birth	78.9	78.9	77.4	77.2	-0.2
Expected years of schooling	16.3	16.3	16.3	16.3	+0.0
Mean years of schooling	13.4	13.4	13.7	13.7	+0.0
GNI per capita (PPP \$)	56,140	63,826	61,462	64,765	+3,304

PRIORITY AREAS

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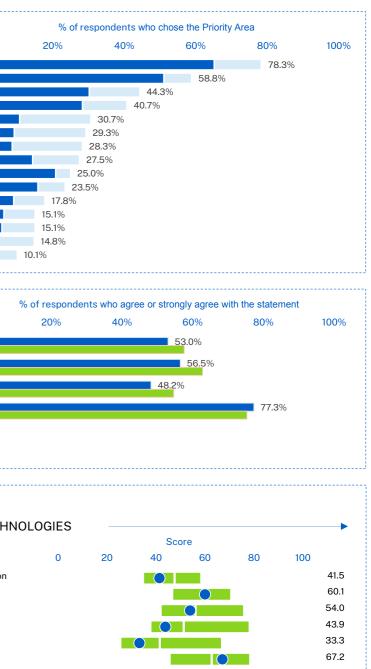
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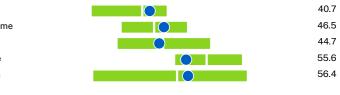
0% affordable housing road congestion public transport security unemployment fulfilling employment health services school education corruption air pollution social mobility recycling basic amenities green spaces citizen engagement 10.1%

0%

ATTITUDES

BBB in 2021		MIN	
BBB IN 2021	STRUCTURES		TECHNOL
	Health & Safety020406080Basic sanitation meets the needs of the poorest areasImage: Comparison of the poorest areasImage: Comparison of the poorest areas	100 59.8	Health & Safety Online reporting of city maintenance problems provides a speedy solution
FACTOR RATINGS	Recycling services are satisfactory Public safety is not a problem Air pollution is not a problem	68.2 41.2 46.1	A website or App allows residents to easily give away unwanted items Free public wifi has improved access to city services CCTV cameras has made residents feel safer
	Medical services provision is satisfactory Finding housing with rent equal to 30% or less of a monthly salary is not a problem	74.0 27.6	A website or App allows residents to effectively monitor air pollution Arranging medical appointments online has improved access
A	Mobility Traffic congestion is not a problem	21.2	Mobility Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	43.4	Apps that direct you to an available parking space have reduced journey time Bicycle hiring has reduced congestion Online scheduling and ticket sales has made public transport easier to use The city provides information on traffic congestion through mobile phones
TECHNOLOGIES	Activities Green spaces are satisfactory Cultural activities (shows, bars, and museums) are satisfactory	67.7 81.5	Activities Online purchasing of tickets to shows and museums has made it easier to attend
GROUP	Opportunities (Work & School) Employment finding services are readily available Most children have access to a good school	67.6 61.1	Opportunities (Work & School) Online access to job listings has made it easier to find work IT skills are taught well in schools
1	Lifelong learning opportunities are provided by local institutions Businesses are creating new jobs Minorities feel welcome	66.4 70.1 60.9	Online services provided by the city has made it easier to start a new business The current internet speed and reliability meet connectivity needs
	Governance Information on local government decisions are easily accessible	67.0	Governance Online public access to city finances has reduced corruption
All ratings range	Corruption of city officials is not an issue of concern Residents contribute to decision making of local government	43.7 52.0	Online voting has increased participation An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	62.1	Processing Identification Documents online has reduced waiting times







69.7
50.9
47.9
67.4

41.1
52.1
47.2
54.9

Brasilia



SMART

CITY RATING

С

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



esign CC BY 3.0 Map Data © Ope

Country	2018	2019	2020	2021	1 yr change
HDI	0.764	0.766	0.758	0.754	-0.004
Life expectancy at birth	75.1	75.3	74.0	72.8	-1.3
Expected years of schooling	15.7	15.6	15.6	15.6	+0.0
Mean years of schooling	8.0	10.6	10.9	10.9	+0.0
GNI per capita (PPP \$)	21,972	23,261	22,286	24,563	+2,277

PRIORITY AREAS

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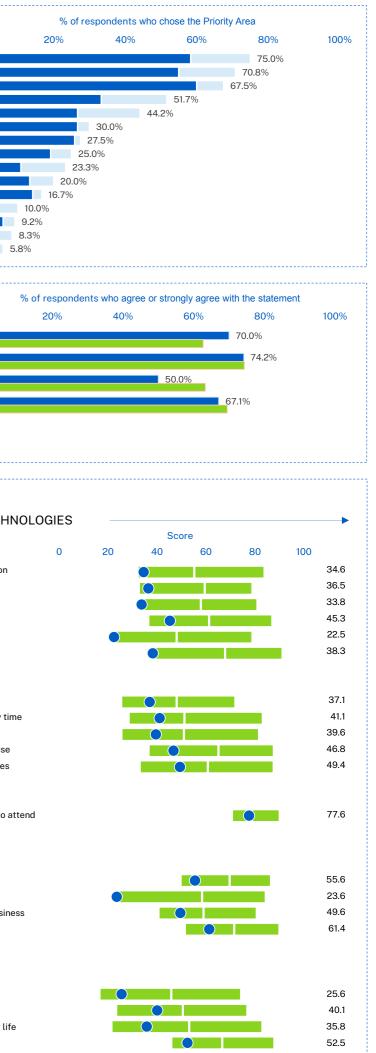
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0% health services security public transport unemployment school education corruption affordable housing social mobility fulfilling employment basic amenities road congestion citizen engagement recycling 9.2% green spaces 8.3% air pollution 5.8%

0%

ATTITUDES

G						LEGEN	ID: MIN	CITY MEAN GROUP MAX
not in 2021	STRUCT	URES						TECHNOLO
				Score				
	Health & Safety	0	20	40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas			\bigcirc			46.4	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory						52.6	A website or App allows residents to easily give away unwanted items
FACIUR	Public safety is not a problem		\bigcirc				28.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						41.7	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory						31.9	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a probl	em	\bigcirc				19.3	Arranging medical appointments online has improved access
C	Mobility							Mobility
	Traffic congestion is not a problem						25.4	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		\bigcirc				19.9	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
С								The city provides information on traffic congestion through mobile phones
\checkmark	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						73.2	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				\bigcirc		66.3	
	Opportunities (Work & School)							Opportunities (Work & School)
	Employment finding services are readily available						47.6	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school						43.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						52.4	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs						43.2	The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome						31.3	
	Governance							Governance
	Information on local government decisions are easily accessible						40.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						17.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					_	23.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						30.3	Processing Identification Documents online has reduced waiting times
								5 · · · · · · · · · · · · · · · · · · ·



Bratislava



BB

BACKGROUND INFORMATION



(Eurostat)

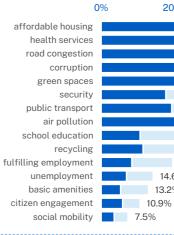


Country	2018	2019	2020	2021	1 yr change
HDI	0.857	0.860	0.857	0.848	-0.009
Life expectancy at birth	77.4	77.5	77.0	74.9	-2.1
Expected years of schooling	14.5	14.5	14.5	14.5	+0.0
Mean years of schooling	12.6	12.7	12.9	12.9	+0.0
GNI per capita (PPP \$)	30,672	32,113	29,801	30,690	+889

PRIORITY AREAS

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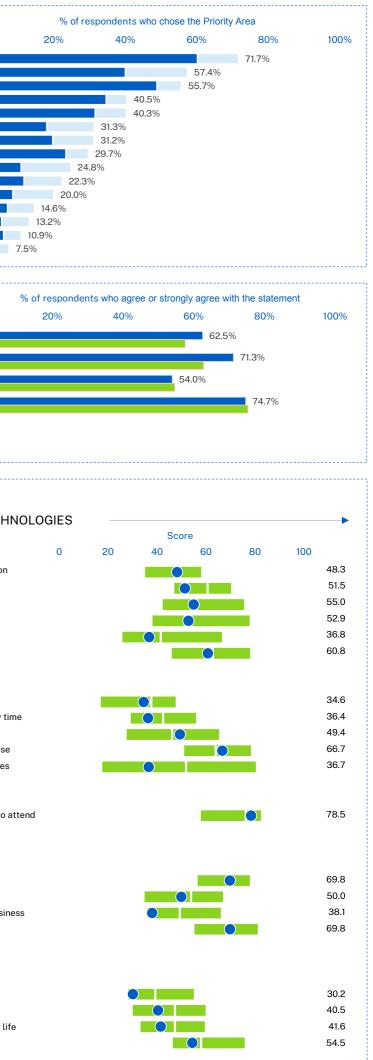
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0%

ATTITUDES

BB					LEGEND:	MIN	CITY MEAN GROUP MAX
BB in 2021	STF	RUCTURES					TECHNOI
			Scor	e			
	Health & Safety	0 20	0 40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					57.6	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory					57.4	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					58.2	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					37.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					42.4	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not	a problem				25.2	Arranging medical appointments online has improved access
BB	Mobility						Mobility
	Traffic congestion is not a problem					22.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					48.0	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BBB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					40.5	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory					67.8	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					67.0	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					64.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					61.0	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs			\bigcirc		62.4	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome					46.3	
	Governance						Governance
	Information on local government decisions are easily accessible					61.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					28.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					40.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					50.7	Processing Identification Documents online has reduced waiting times



Brisbane



SMART

CITY RATING

ΑΑ

BACKGROUND INFORMATION

City	
Population	HDI
2,054,614	0.944

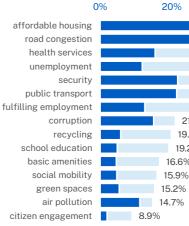
(UN Data)



Country	2018	2019	2020	2021	1 yr change
HDI	0.941	0.941	0.947	0.951	+0.004
Life expectancy at birth	83.4	83.1	84.3	84.5	+0.2
Expected years of schooling	18.0	18.0	18.0	18.0	+0.0
Mean years of schooling	12.6	12.1	12.4	12.4	+0.0
GNI per capita (PPP \$)	43,821	52,085	49,392	52,293	+2,901

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city. The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A



0%

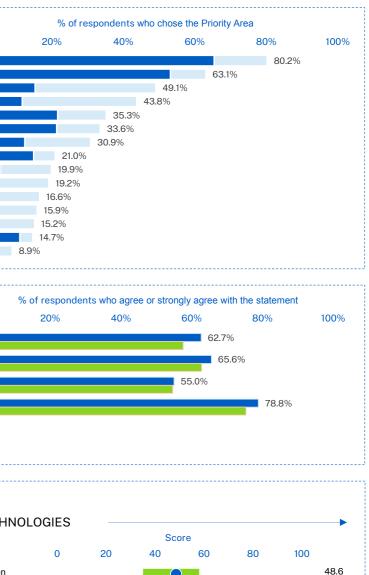
ATTITUDES

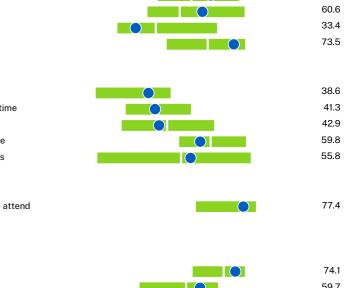
strong Alignment (i.e. consistency across both

areas explained) means that these areas may

benefit from close observation.

AA				LEGEN	ID: MIN OC	TY MEAN GROUP MAX	
BB in 2021	STRUCTURES					TECHNOLOGIES	•
			Score			Score	
	Health & Safety 0	20	40 6	60 80	100	Health & Safety 0 20 40 60 80	100
	Basic sanitation meets the needs of the poorest areas				71.5	Online reporting of city maintenance problems provides a speedy solution	48.6
FACTOR	Recycling services are satisfactory				74.6	A website or App allows residents to easily give away unwanted items	62.8
TACTOR	Public safety is not a problem	I			52.4	Free public wifi has improved access to city services	64.0
RATINGS	Air pollution is not a problem				52.9	CCTV cameras has made residents feel safer	60.6
	Medical services provision is satisfactory				69.4	A website or App allows residents to effectively monitor air pollution	33.4
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem				28.3	Arranging medical appointments online has improved access	73.5
Δ	Mahilla						
	Mobility Traffic congestion is not a problem			_	26.1	Mobility Car-sharing Apps have reduced congestion	38.6
STRUCTURES	Public transport is satisfactory				54.5	Apps that direct you to an available parking space have reduced journey time	41.3
OTHOUTONEO					01.0	Bicycle hiring has reduced congestion	42.9
						Online scheduling and ticket sales has made public transport easier to use	59.8
•						The city provides information on traffic congestion through mobile phones	55.8
A							
	Activities					Activities	
TECHNOLOGIES	Green spaces are satisfactory				70.2	Online purchasing of tickets to shows and museums has made it easier to attend	77.4
	Cultural activities (shows, bars, and museums) are satisfactory				79.3		
	Opportunities (Work & School)					Opportunities (Work & School)	
	Employment finding services are readily available				70.8	Online access to job listings has made it easier to find work	74.1
GROUP	Most children have access to a good school				77.5	IT skills are taught well in schools	59.7
	Lifelong learning opportunities are provided by local institutions				72.0	Online services provided by the city has made it easier to start a new business	53.7
-	Businesses are creating new jobs				63.0	The current internet speed and reliability meet connectivity needs	63.8
	Minorities feel welcome				65.3		
	Covernance					Covernance	
	Governance Information on local government decisions are easily accessible				59.6	Governance Online public access to city finances has reduced corruption	39.1
	Corruption of city officials is not an issue of concern	_			47.9	Online voting has increased participation	47.7
All ratings range	Residents contribute to decision making of local government				51.0	An online platform where residents can propose ideas has improved city life	45.7
from AAA to D	Residents provide feedback on local government projects				63.0	Processing Identification Documents online has reduced waiting times	62.6
	Residents bronde recobler on toda Boverninent broleers				55.5		02.0





/4.1
59.7
53.7
63.8

Brussels



SMART

CITY RATING

BACKGROUND INFORMATION

City	
Population	HDI
1,226,329	0.953

(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.919	0.931	0.928	0.937	+0.009
Life expectancy at birth	81.5	81.6	80.8	81.9	+1.1
Expected years of schooling	19.7	19.8	18.0	18.0	+0.0
Mean years of schooling	11.8	12.1	12.4	12.4	+0.0
GNI per capita (PPP \$)	43,821	52,085	49,392	52,293	+2,901

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% affordable housing security road congestion air pollution unemployment health services public transport corruption fulfilling employment green spaces school education basic amenities recycling social mobility citizen engagement

0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

BBB	L					
				LEGE	ND: MIN	CITY MEAN GROUP MAX
BBB in 2021		STRUCTURES	Score			TECHNOL
	Health & Safety	0 20		80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				54.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				59.9	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				46.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	-			28.3	CCTV cameras has made residents feel safer
ITATING S	Medical services provision is satisfactory				66.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is	not a problem			32.3	Arranging medical appointments online has improved access
BB	Mobility					Mobility
	Traffic congestion is not a problem				28.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				58.2	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
Δ						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				65.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				73.8	
	Opportunities (Work & School)					Opportunities (Work & School)
GROUP	Employment finding services are readily available				64.2	Online access to job listings has made it easier to find work
UNOUF	Most children have access to a good school				58.3	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				62.5	Online services provided by the city has made it easier to start a new business
1	Businesses are creating new jobs				53.0	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				49.0	
	Governance					Governance
	Information on local government decisions are easily accessible				55.5	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				42.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				40.6	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				47.4	Processing Identification Documents online has reduced waiting times



43.7
50.9
48.1
62.4

Bucharest



CITY RATING

BACKGROUND INFORMATION



(Eurostat)

. Arkan

Country	2018	2019	2020	2021	1 yr change
HDI	0.816	0.828	0.824	0.821	-0.003
Life expectancy at birth	75.9	76.1	75.4	74.2	-1.2
Expected years of schooling	14.3	14.3	14.2	14.2	+0.0
Mean years of schooling	11.0	11.1	11.3	11.3	+0.0
GNI per capita (PPP \$)	23,906	29,497	28,359	30,027	+1,669

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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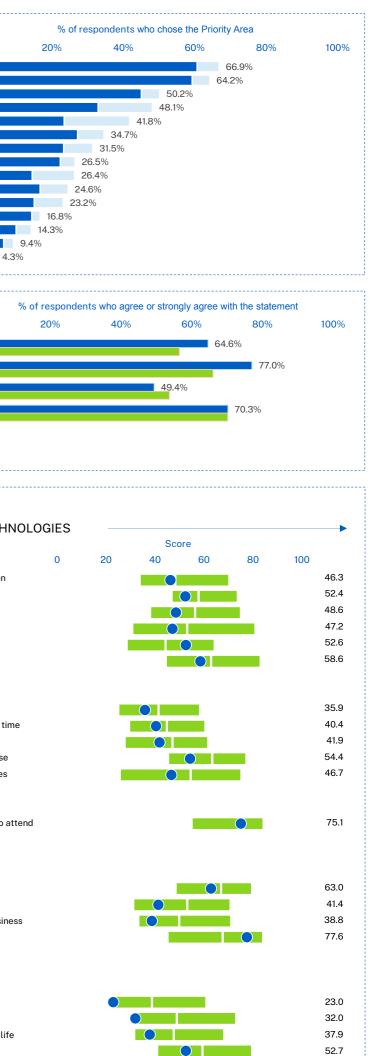
0% air pollution road congestion corruption health services basic amenities recycling green spaces public transport school education security fulfilling employment affordable housing citizen engagement unemployment 9.4% social mobility 4.3%

0%

ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

CCC	L				;		
					LEGEND	MIN	CITY MEAN GROUP MAX.
CCC in 2021		ES		Score		•	TECHNOL
	Health & Safety	0	20 40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					42.8	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					30.2	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					44.2	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	•				15.2	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory		\bigcirc			39.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem					26.9	Arranging medical appointments online has improved access
CCC	Mobility						Mobility
	Traffic congestion is not a problem					12.8	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					32.2	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
B							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					45.4	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					63.1	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					52.0	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					48.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					45.2	Online services provided by the city has made it easier to start a new business
9	Businesses are creating new jobs					49.6	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome			\bigcirc	l	53.7	
	Governance						Governance
	Information on local government decisions are easily accessible					37.8	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					18.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					20.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					33.6	Processing Identification Documents online has reduced waiting times



Budapest



CITY RATING

B

BACKGROUND INFORMATION



(Eurostat)

Libraine.

Country	2018	2019	2020	2021	1 yr change
HDI	0.845	0.854	0.849	0.846	-0.003
Life expectancy at birth	76.7	76.9	75.7	74.5	-1.2
Expected years of schooling	15.1	15.2	15.0	15.0	+0.0
Mean years of schooling	11.9	12.0	12.3	12.3	+0.0
GNI per capita (PPP \$)	27,144	31,329	30,487	32,789	+2,302

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

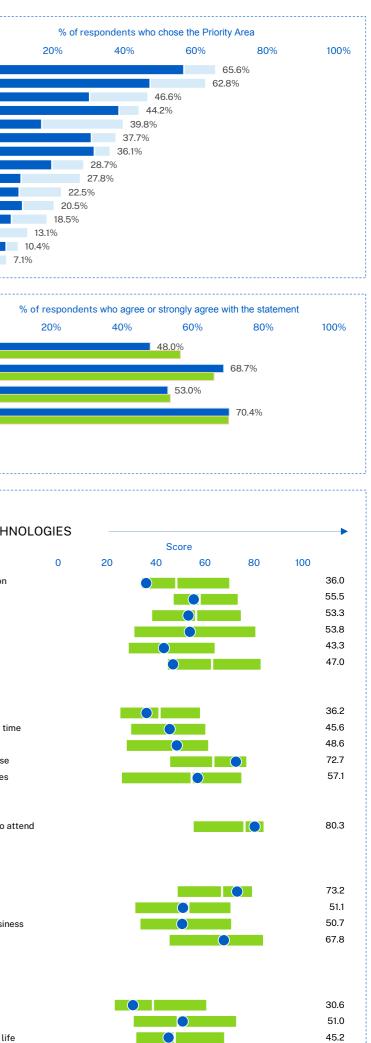
0% affordable housing health services security corruption fulfilling employment air pollution road congestion green spaces unemployment basic amenities school education public transport recycling social mobility 10.4% citizen engagement 7.1%

0%

ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

D			LEGEND: MIN	Y MEAN GROUP MAX
B in 2021	STRUCTURES —			TECHNOLO
		Score		
	Health & Safety 0 20	40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas		47.7	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory		56.1	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem		46.7	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		27.7	CCTV cameras has made residents feel safer
i with the	Medical services provision is satisfactory		35.2	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem		18.0	Arranging medical appointments online has improved access
B	Mobility			Mobility
	Traffic congestion is not a problem		23.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		49.8	Apps that direct you to an available parking space have reduced journey time
STRUCTURES			43.0	Bicycle hiring has reduced congestion
				Online scheduling and ticket sales has made public transport easier to use
				The city provides information on traffic congestion through mobile phones
BB				The city provides information on tranic congestion through mobile phones
	Activities			Activities
TECHNOLOGIES	Green spaces are satisfactory		47.4	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory		74.0	
	Opportunities (Work & School)			Opportunities (Work & School)
	Employment finding services are readily available		62.7	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school		53.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions		60.6	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs		62.3	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome		30.7	
	Governance			Governance
	Information on local government decisions are easily accessible		50.9	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		30.4	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government		34.0	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects		43.9	Processing Identification Documents online has reduced waiting times



65.7

Buenos Aires



CITY RATING

C

BACKGROUND INFORMATION



(UN Data)



Map tiles by Stamen Design CC BY 3.0 Map Data © Oper

						1
Country	2018	2019	2020	2021	1 yr change	ł
HDI	0.830	0.845	0.840	0.842	+0.002	
Life expectancy at birth	76.5	76.7	75.9	75.4	-0.5	ł
Expected years of schooling	17.6	17.7	17.9	17.9	+0.0	ł
Mean years of schooling	10.6	10.9	11.2	11.2	+0.0	ł
GNI per capita (PPP \$)	17,611	21,190	19,178	20,925	+1,747	ł

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

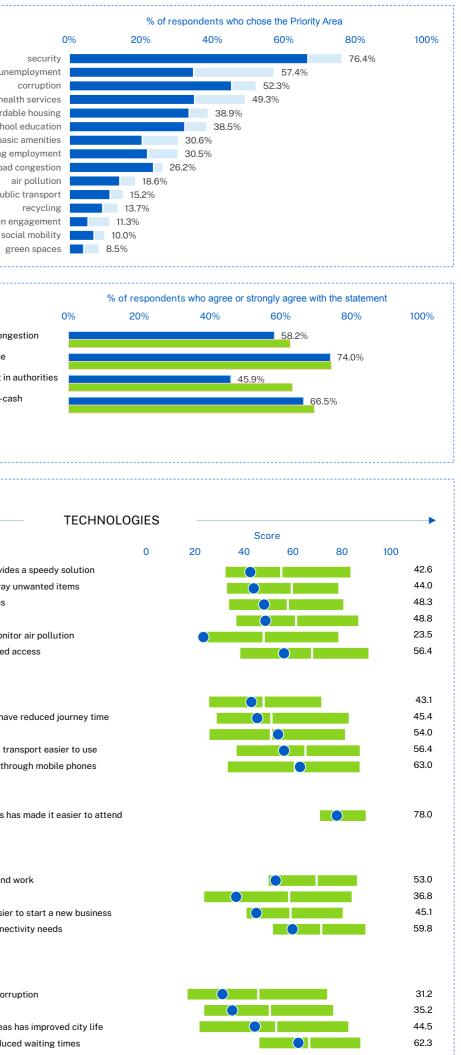
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0% security unemployment corruption health services affordable housing school education basic amenities fulfilling employment road congestion air pollution public transport recycling citizen engagement 11.3% social mobility 10.0%

0%

ATTITUDES

C							
D in 2021	T2	TRUCTURES		L	LEGEND: MI	N O	TECHNOL
DITECT		INCOTONED	Sco	re			
	Health & Safety	0 2	0 40	60 8	30 100		Health & Safety
	Basic sanitation meets the needs of the poorest areas					39.4	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory					43.6	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem)			18.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		\bigcirc			24.3	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					41.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is no	ot a problem				22.6	Arranging medical appointments online has improved access
C	Mobility						Mobility
	Traffic congestion is not a problem					22.3	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					45.2	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
C							The city provides information on traffic congestion through mobile phones
•	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					70.7	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					75.9	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					39.8	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school		\bigcirc			31.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					46.0	Online services provided by the city has made it easier to start a new business
_	Businesses are creating new jobs					31.4	The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome		\bigcirc			41.6	
	Governance						Governance
	Information on local government decisions are easily accessible					46.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					22.3	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					28.7	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					40.4	Processing Identification Documents online has reduced waiting times



Busan



BACKGROUND INFORMATION

City	
Population	HDI
3,343,528	0.936

(UN Data)



Map tiles by Stamen Design CC BY 3.0 Map Data © Ope

Country	2018	2019	2020	2021	1 yr change
HDI	0.906	0.916	0.922	0.925	+0.003
Life expectancy at birth	82.8	83.0	83.6	83.7	+0.1
Expected years of schooling	16.4	16.5	16.5	16.5	+0.0
Mean years of schooling	12.2	12.2	12.5	12.5	+0.0
GNI per capita (PPP \$)	36,757	43,044	42,698	44,501	+1,803

PRIORITY AREAS

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fulfilling employment unemployment road congestion affordable housing air pollution corruption basic amenities green spaces security public transport citizen engagement health services recycling social mobility school education

0%

0%

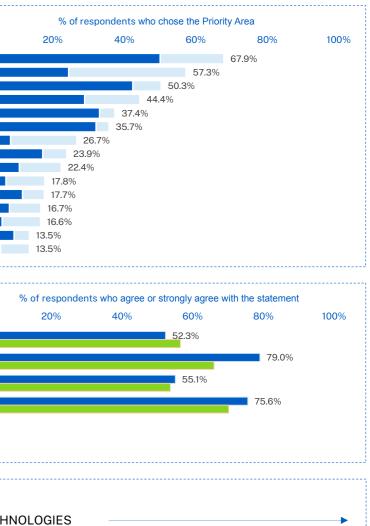
ATTITUDES

LEGEND: GR

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

BB	L					L		
DD					LEGEN	D: MIN		MEAN GROUP MAX
BB in 2021	STRU	CTURES		Score			-	TECHNOL
	Health & Safety	0	20 4	0 60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas						73.2	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory						70.1	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem						67.9	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						23.8	CCTV cameras has made residents feel safer
NATINGS	Medical services provision is satisfactory						72.7	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a p	roblem		\bigcirc			42.6	Arranging medical appointments online has improved access
BB	Mobility							Mobility
	Traffic congestion is not a problem						27.9	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory						65.3	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
BBB								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						51.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory						49.2	
	Opportunities (Work & School)							Opportunities (Work & School)
GROUP	Employment finding services are readily available						55.5	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school			\bigcirc			60.4	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						63.1	Online services provided by the city has made it easier to start a new business
9	Businesses are creating new jobs						34.9	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome						31.7	
	Governance							Governance
	Information on local government decisions are easily accessible						54.1	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						27.9	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government						46.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						44.9	Processing Identification Documents online has reduced waiting times





76.1

Cairo



CC

C in 2021

FACTOR

RATINGS

С

STRUCTURES

CC

TECHNOLOGIES

GROUP

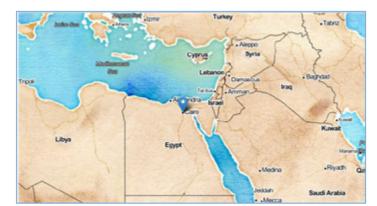
All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN Data)



ap tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

Country	2018	2019	2020	2021	1 yr change
HDI	0.700	0.707	0.734	0.731	-0.003
Life expectancy at birth	71.8	72.0	71.0	70.2	-0.8
Expected years of schooling	13.1	13.3	13.8	13.8	+0.0
Mean years of schooling	7.3	7.4	9.6	9.6	+0.0
GNI per capita (PPP \$)	10,744	11,466	11,581	11,732	+151

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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health servicesunemploymentroad congestionaffordable housingair pollutionbasic amenitiescorruptionsecurityschool educationfulfilling employmentpublic transportrecyclinggreen spacescitizen engagementsocial mobility6.5%

0%

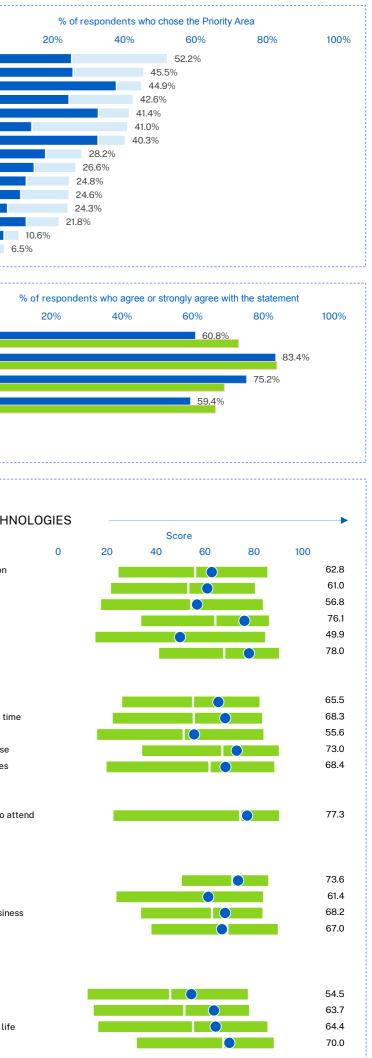
0%

ATTITUDES

LEGEND: GR

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

STRUC	TURES						TECHNO
	TONEO		So	core		r -	
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						68.4	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory						57.0	A website or App allows residents to easily give away unwanted items
Public safety is not a problem						37.4	Free public wifi has improved access to city services
Air pollution is not a problem						20.0	CCTV cameras has made residents feel safer
Medical services provision is satisfactory				\bigcirc		58.6	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem		\bigcirc			45.6	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						19.5	Car-sharing Apps have reduced congestion
Public transport is satisfactory						54.3	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory						53.2	Online purchasing of tickets to shows and museums has made it easier to atte
Cultural activities (shows, bars, and museums) are satisfactory						67.4	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available			\bigcirc			45.7	Online access to job listings has made it easier to find work
Most children have access to a good school				\bigcirc		55.1	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						51.0	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs			(49.8	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						64.5	
Governance							Governance
Information on local government decisions are easily accessible						69.4	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						28.6	Online voting has increased participation
Residents contribute to decision making of local government						46.7	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects						51.8	Processing Identification Documents online has reduced waiting times



Canberra

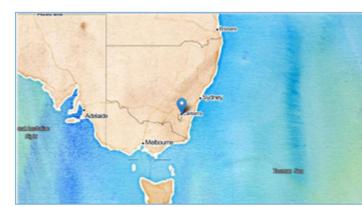


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BACKGROUND INFORMATION



(UN Data)



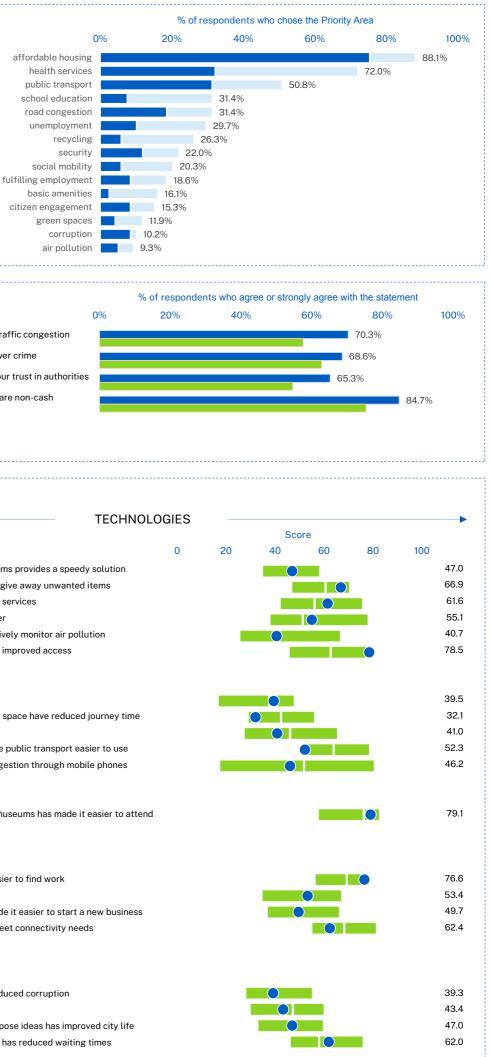
Map tiles by Stamen Design CC BY 3.0 Map Data © Op

Country	2018	2019	2020	2021	1 yr change
HDI	0.941	0.941	0.947	0.951	+0.004
Life expectancy at birth	83.4	83.1	84.3	84.5	+0.2
Expected years of schooling	18.0	18.0	18.0	18.0	+0.0
Mean years of schooling	12.6	12.1	12.4	12.4	+0.0
GNI per capita (PPP \$)	43,821	52,085	49,392	52,293	+2,901

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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ATTITUDES

AA					LEGEN	ID: MIN	TTY MEAN GROUP MAX
not in 2021	STRUC	CTURES					TECHNOL
		0 20	0 40	Score 60	80	100	
	Health & Safety	0 20	5 40	00	00	77.4	Health & Safety Online reporting of city maintenance problems provides a speedy solution
	Basic sanitation meets the needs of the poorest areas Recycling services are satisfactory					77.4	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem		_			62.9	Free public wifi has improved access to city services
DATINGO	Air pollution is not a problem	_				74.4	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory		_			58.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pr	oblem				23.7	Arranging medical appointments online has improved access
ΛΛ							
	Mobility						Mobility
	Traffic congestion is not a problem					63.1	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					51.3	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
Δ							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					80.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					78.0	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					71.0	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					78.1	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					78.7	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs					66.8	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome					72.2	
	Governance						Governance
	Information on local government decisions are easily accessible					62.6	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				-	56.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					56.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					63.4	Processing Identification Documents online has reduced waiting times
					-		

Cape Town



SMART

CITY RATING

С

BACKGROUND INFORMATION

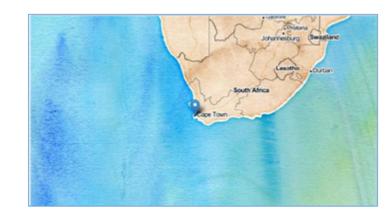
HDI

0.751

City	
Population	

4,800,954

(UN World Urbanisation Prospects 2022 estimate)



Map tiles by Stamen Design CC BY 3.0 Map Data © Op

Country	2018	2019	2020	2021	1 yr change
HDI	0.705	0.709	0.727	0.713	-0.014
Life expectancy at birth	63.9	64.1	65.3	62.3	-2.9
Expected years of schooling	13.7	13.8	13.6	13.6	+0.0
Mean years of schooling	10.2	10.2	11.4	11.4	+0.0
GNI per capita (PPP \$)	11,756	12,129	12,450	12,948	+499

PRIORITY AREAS

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0% unemployment affordable housing security corruption health services basic amenities fulfilling employment school education public transport road congestion recycling air pollution green spaces 8.6% citizen engagement 7.8% social mobility 6.0%

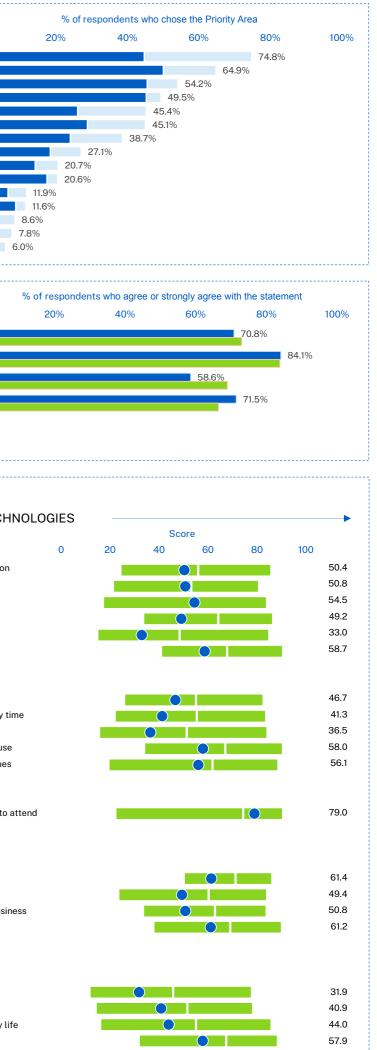
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

G					LEGEN	D: MIN	CITY MEAN GROUP MAX
C in 2021		RES				•	TECHNOL
		0 2	20 40	Score 60	80	100	
	Health & Safety	0 2	:0 40	00	80		Health & Safety
	Basic sanitation meets the needs of the poorest areas)		40.9	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory			\bigcirc		55.6	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem		\bigcirc			23.3	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		\bigcirc			35.1	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					51.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	·	\bigcirc			26.7	Arranging medical appointments online has improved access
C	Mobility						Mobility
_	Traffic congestion is not a problem					29.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		(43.5	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
C							The city provides information on traffic congestion through mobile phones
$\mathbf{\vee}$	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					58.4	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					72.5	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					42.3	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	_				43.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					46.6	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					45.0	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome					43.2	The current internet speed and reliability meet connectivity needs
	Covernance						Coverses
	Governance Information on local government decisions are easily accessible				_	53.3	Governance Online public access to city finances has reduced corruption
						20.6	
All ratings range	Corruption of city officials is not an issue of concern					20.6	Online voting has increased participation
0 0	Residents contribute to decision making of local government	_			_		An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					43.0	Processing Identification Documents online has reduced waiting times



Cardiff



BACKGROUND INFORMATION



(Eurostat)

in 2021

SMART **CITY RATING**

> CC not in 2021

FACTOR RATINGS CCC STRUCTURES

CC TECHNOLOGIES

GROUP



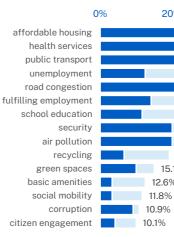
All ratings range from AAA to D

Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.932	0.924	0.929	+0.005
Life expectancy at birth	81.2	81.3	80.4	80.7	+0.3
Expected years of schooling	17.4	17.5	17.3	17.3	+0.0
Mean years of schooling	13.0	13.2	13.4	13.4	+0.0
GNI per capita (PPP \$)	39,507	46,071	42,375	45,225	+2,850

PRIORITY AREAS

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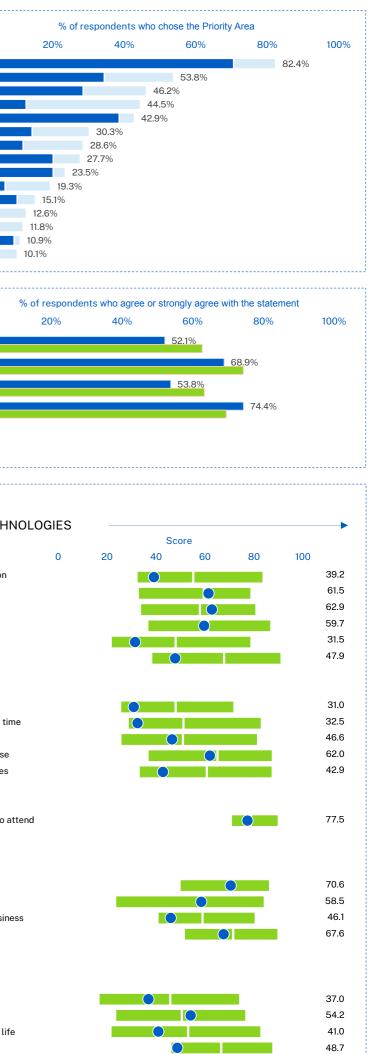
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

					LEGEND): MIN 🔵 (CITY MEAN GROUP MAX
•	STRUCTURES					•	
			Sco	ore			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						59.4	Online reporting of city maintenance problems provides a speedy solutio
Recycling services are satisfactory						66.8	A website or App allows residents to easily give away unwanted items
Public safety is not a problem			\bigcirc			40.1	Free public wifi has improved access to city services
Air pollution is not a problem						33.9	CCTV cameras has made residents feel safer
Medical services provision is satisfactory			(50.1	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary	is not a problem					22.1	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						23.5	Car-sharing Apps have reduced congestion
Public transport is satisfactory			\bigcirc			45.1	Apps that direct you to an available parking space have reduced journey
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to us
							The city provides information on traffic congestion through mobile phone
Activities							Activities
Green spaces are satisfactory				\bigcirc		66.2	Online purchasing of tickets to shows and museums has made it easier to
Cultural activities (shows, bars, and museums) are satisfactory						77.5	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available				\bigcirc		61.9	Online access to job listings has made it easier to find work
Most children have access to a good school						68.8	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						64.6	Online services provided by the city has made it easier to start a new bus
Businesses are creating new jobs						54.8	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						66.5	
Governance							Governance
Information on local government decisions are easily accessible				\bigcirc		56.2	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						44.0	Online voting has increased participation
Residents contribute to decision making of local government						42.3	An online platform where residents can propose ideas has improved city
Residents provide feedback on local government projects						52.0	Processing Identification Documents online has reduced waiting times



Chengdu



SMART

CITY RATING

CCC

CCC in 2021

FACTOR

RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION

City	
Population	HDI
9,478,521	0.740

(UN World Urbanisation Prospects 2022 estimate)



2018	2019	2020	2021	1 yr change
0.758	0.761	0.764	0.768	+0.004
76.7	76.9	78.1	78.2	+0.1
13.9	14.0	14.2	14.2	+0.0
7.9	8.1	7.6	7.6	+0.0
16,127	16,057	16,201	17,504	+1,303
	0.758 76.7 13.9 7.9	0.758 0.761 76.7 76.9 13.9 14.0 7.9 8.1	0.758 0.761 0.764 76.7 76.9 78.1 13.9 14.0 14.2 7.9 8.1 7.6	0.758 0.761 0.764 0.768 76.7 76.9 78.1 78.2 13.9 14.0 14.2 14.2 7.9 8.1 7.6 7.6

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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road congestion air pollution fulfilling employment affordable housing corruption health services basic amenities school education unemployment social mobility recycling citizen engagement security public transport green spaces

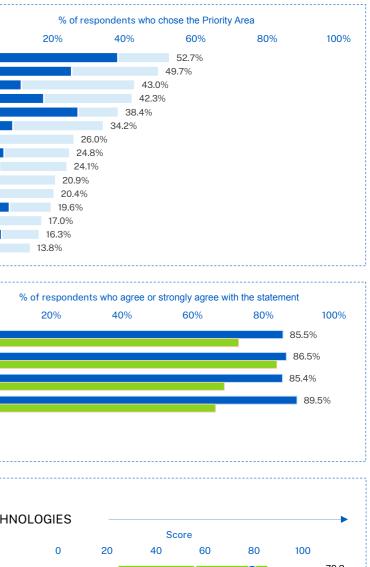
ATTITUDES

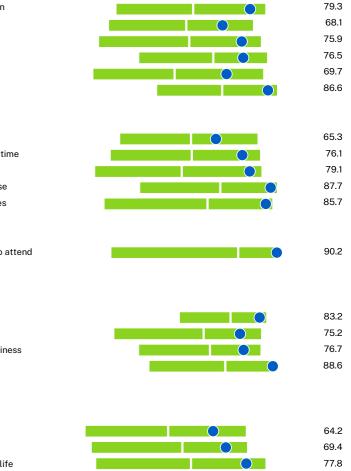
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

				-		TEOLINO
STRUCTURES		Sc	ore			TECHNOL
Health & Safety 0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas					82.4	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory					75.3	A website or App allows residents to easily give away unwanted items
Public safety is not a problem					73.3	Free public wifi has improved access to city services
Air pollution is not a problem					54.6	CCTV cameras has made residents feel safer
edical services provision is satisfactory					75.2	A website or App allows residents to effectively monitor air pollution
inding housing with rent equal to 30% or less of a monthly salary is not a problem			\bigcirc		63.2	Arranging medical appointments online has improved access
Mobility						Mobility
raffic congestion is not a problem		\bigcirc			40.9	Car-sharing Apps have reduced congestion
ublic transport is satisfactory					69.4	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
						The city provides information on traffic congestion through mobile phones
Activities						Activities
ireen spaces are satisfactory					82.0	Online purchasing of tickets to shows and museums has made it easier to attend
ultural activities (shows, bars, and museums) are satisfactory					82.0	
Opportunities (Work & School)						Opportunities (Work & School)
mployment finding services are readily available				\bigcirc	78.8	Online access to job listings has made it easier to find work
Nost children have access to a good school				\bigcirc	75.9	IT skills are taught well in schools
ifelong learning opportunities are provided by local institutions					65.1	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs					73.9	The current internet speed and reliability meet connectivity needs
Minorities feel welcome				\bigcirc	79.3	
Governance						Governance
Information on local government decisions are easily accessible					73.9	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern					48.2	Online voting has increased participation
Residents contribute to decision making of local government					58.0	An online platform where residents can propose ideas has improved city life

0%

0%





79.8

 \bigcirc

Chicago



SMART

CITY RATING

BACKGROUND INFORMATION



(UN Data)



Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.926	0.920	0.921	+0.001
Life expectancy at birth	78.9	78.9	77.4	77.2	-0.2
Expected years of schooling	16.3	16.3	16.3	16.3	+0.0
Mean years of schooling	13.4	13.4	13.7	13.7	+0.0
GNI per capita (PPP \$)	56,140	63,826	61,462	64,765	+3,304

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

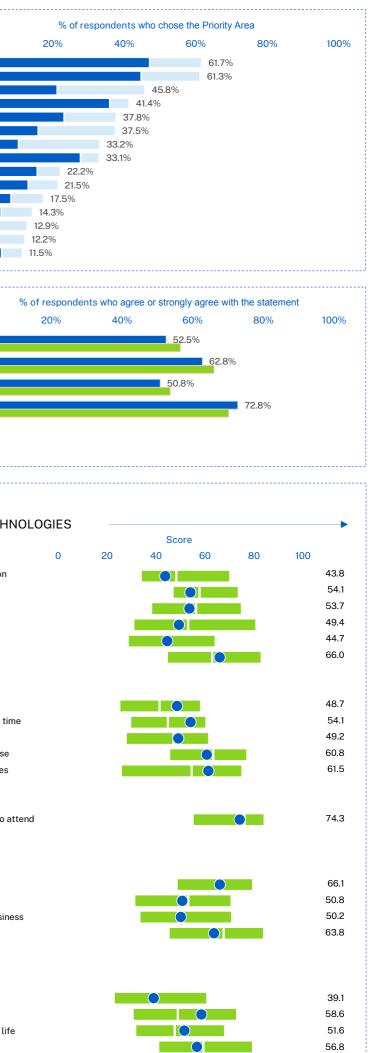
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0% security affordable housing health services corruption school education unemployment fulfilling employment road congestion air pollution public transport basic amenities social mobility recycling green spaces 12.2% citizen engagement

0%

ATTITUDES

BB	L					·	
DD					LEGEND	MIN 🔵	TTY MEAN GROUP MAX
B in 2021	STRUC	CTURES				•	TECHNOL
	Health & Safety	0	20 4	Score 0 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					51.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					60.5	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					28.7	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					34.8	CCTV cameras has made residents feel safer
KATINGS	Medical services provision is satisfactory					55.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	oblem				36.3	Arranging medical appointments online has improved access
BB	Mobility						Mobility
	Traffic congestion is not a problem					27.9	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					54.0	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					63.0	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					77.1	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					63.6	Online access to job listings has made it easier to find work
UNOUF	Most children have access to a good school					50.1	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					54.5	Online services provided by the city has made it easier to start a new business
9	Businesses are creating new jobs					62.8	The current internet speed and reliability meet connectivity needs
_	Minorities feel welcome					60.4	
	Governance						Governance
	Information on local government decisions are easily accessible					60.1	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					28.1	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					49.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					55.3	Processing Identification Documents online has reduced waiting times



Chongqing



SMART

CITY RATING

CCC

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



2018	2019	2020	2021	1 yr change
0.758	0.761	0.764	0.768	+0.004
76.7	76.9	78.1	78.2	+0.1
13.9	14.0	14.2	14.2	+0.0
7.9	8.1	7.6	7.6	+0.0
16,127	16,057	16,201	17,504	+1,303
	0.758 76.7 13.9 7.9	0.758 0.761 76.7 76.9 13.9 14.0 7.9 8.1	0.758 0.761 0.764 76.7 76.9 78.1 13.9 14.0 14.2 7.9 8.1 7.6	0.758 0.761 0.764 0.768 76.7 76.9 78.1 78.2 13.9 14.0 14.2 14.2 7.9 8.1 7.6 7.6

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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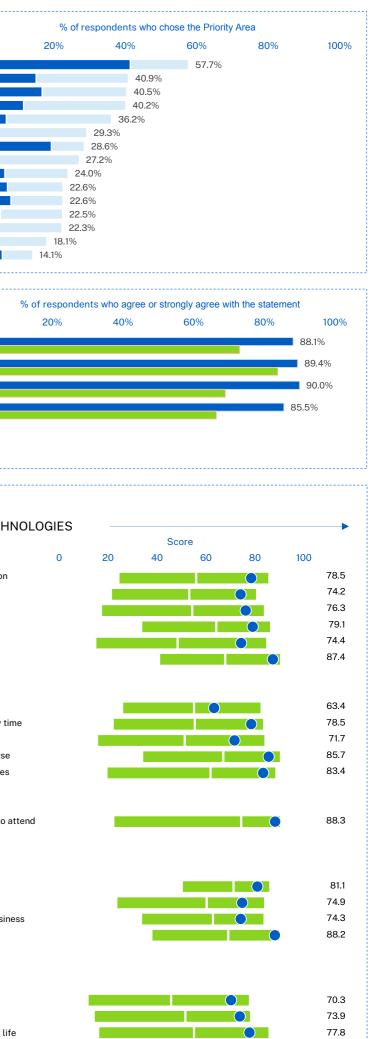
0% road congestion affordable housing air pollution fulfilling employment health services basic amenities corruption social mobility school education unemployment public transport recycling security green spaces citizen engagement

0%

ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

666				LEGEN	ID: MIN	CITY MEAN GROUP MAX
CCC in 2021	STRUCTURES					TECHNOLO
			Score			
	Health & Safety 0	20 2	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas			\bigcirc	82.2	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory			\bigcirc	73.9	A website or App allows residents to easily give away unwanted items
TACTOR	Public safety is not a problem			\bigcirc	73.3	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				63.7	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				76.8	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem				66.0	Arranging medical appointments online has improved access
CCC	Mobility					Mobility
	Traffic congestion is not a problem				43.3	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				66.9	Apps that direct you to an available parking space have reduced journey time
				_		Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
						The city provides information on traffic congestion through mobile phones
CCC						
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory			\bigcirc	79.1	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				79.3	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				74.8	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school			\bigcirc	74.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				64.3	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs				75.6	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome			\bigcirc	82.2	
	Governance					Governance
	Information on local government decisions are easily accessible				73.4	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				56.6	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				57.7	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				69.1	Processing Identification Documents online has reduced waiting times



78.9

Copenhagen



SMART

CITY RATING

BACKGROUND INFORMATION

City	
Population	HDI
1,855,084	0.967

(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.930	0.940	0.947	0.948	+0.001
Life expectancy at birth	80.8	80.9	81.6	81.4	-0.2
Expected years of schooling	19.1	18.9	18.0	18.0	+0.0
Mean years of schooling	12.6	12.6	13.0	13.0	+0.0
GNI per capita (PPP \$)	48,836	58,662	58,144	60,365	+2,221

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0% affordable housing road congestion air pollution green spaces public transport health services unemployment security recycling basic amenities fulfilling employment school education social mobility citizen engagement corruption

0%

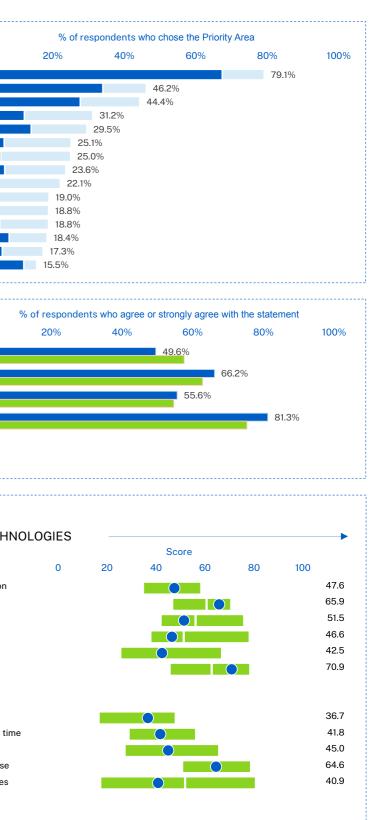
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

A A	L		i	
AA		LEGEN	ND: MIN	MEAN GROUP MAX
AAA in 2021	STRUCTURES			TECHNOLO
		Score		
	Health & Safety 0 20 4	40 60 80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas		78.4	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory		79.3	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem		73.1	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		49.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory		79.2	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	•	24.7	Arranging medical appointments online has improved access
AAA	Mobility			Mobility
	Traffic congestion is not a problem		38.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		67.9	Apps that direct you to an available parking space have reduced journey time
				Bicycle hiring has reduced congestion
				Online scheduling and ticket sales has made public transport easier to use
Δ				The city provides information on traffic congestion through mobile phones
	Activities			Activities
TECHNOLOGIES	Green spaces are satisfactory		74.8	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory		84.2	
	Opportunities (Work & School)			Opportunities (Work & School)
	Employment finding services are readily available		78.4	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school		80.9	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions		73.9	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs		73.9	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome		61.5	
	Governance			Governance
	Information on local government decisions are easily accessible		63.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		64.7	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government		60.9	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects		66.3	Processing Identification Documents online has reduced waiting times



attend

72.2
62.5
47.3
69.8

78.3

40.8
45.0
50.1
52.7

Delhi

SMART CITY RANKING 105 Out of 141 94 out of 118 in 2021 SMART

CITY RATING

CC

CC in 2021

FACTOR

RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



HDI 3,206,576 0.730

(UN World Urbanisation Prospects 2022 estimate)

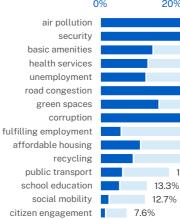


Country	2018	2019	2020	2021	1 yr change
HDI	0.647	0.645	0.642	0.633	-0.009
Life expectancy at birth	69.4	69.7	70.2	67.2	-2.9
Expected years of schooling	12.3	12.2	11.9	11.9	+0.0
Mean years of schooling	6.5	6.5	6.7	6.7	+0.0
GNI per capita (PPP \$)	6,829	6,681	6,107	6,590	+482

PRIORITY AREAS

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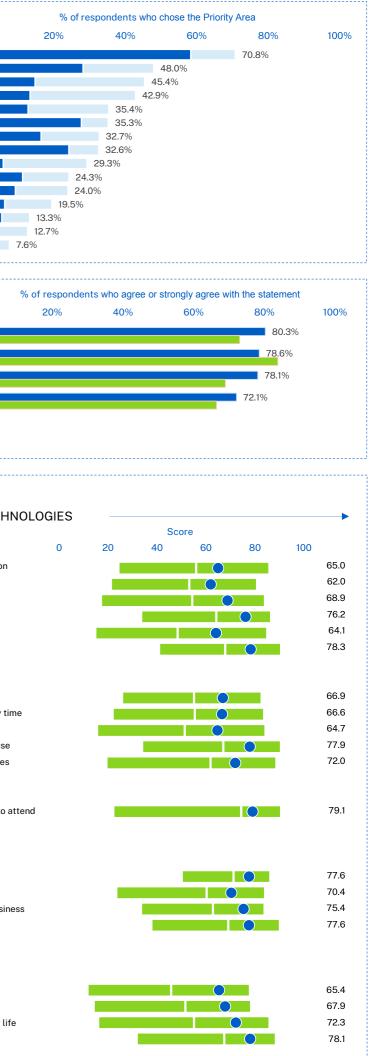
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

•	STRUCTUR	RES						4	TECHNO
				Sco	ore				
Health & Safety		0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas							67.3	Online reporting of city maintenar	nce problems provides a speedy solution
Recycling services are satisfactory							66.2	A website or App allows residents	s to easily give away unwanted items
Public safety is not a problem				\bigcirc			44.2	Free public wifi has improved acc	ess to city services
Air pollution is not a problem							22.8	CCTV cameras has made resident	s feel safer
Medical services provision is satisfactory							68.2	A website or App allows residents	s to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a mo	nthly salary is not a problem						52.0	Arranging medical appointments	online has improved access
Mobility								Mobility	
Traffic congestion is not a problem							26.0	Car-sharing Apps have reduced c	ongestion
Public transport is satisfactory					\bigcirc		65.7	Apps that direct you to an availab	le parking space have reduced journey time
								Bicycle hiring has reduced conge	stion
								Online scheduling and ticket sale	s has made public transport easier to use
								The city provides information on t	raffic congestion through mobile phones
Activities								Activities	
Green spaces are satisfactory							63.7	Online purchasing of tickets to sh	ows and museums has made it easier to atter
Cultural activities (shows, bars, and museums) are sati	sfactory				(71.0		
Opportunities (Work & School)								Opportunities (Work & S	chool)
Employment finding services are readily available							66.2	Online access to job listings has n	nade it easier to find work
Most children have access to a good school							67.1	IT skills are taught well in schools	5
Lifelong learning opportunities are provided by local in	nstitutions						63.4	Online services provided by the ci	ty has made it easier to start a new business
Businesses are creating new jobs						\bigcirc	74.7	The current internet speed and re	liability meet connectivity needs
Minorities feel welcome							67.9		
Governance								Governance	
Information on local government decisions are easily a	ccessible						71.6	Online public access to city finance	ces has reduced corruption
Corruption of city officials is not an issue of concern							40.1	Online voting has increased partic	sipation
Residents contribute to decision making of local gover	nment						61.0	An online platform where residen	ts can propose ideas has improved city life
Residents provide feedback on local government proje	ects						65.2	Processing Identification Docume	ents online has reduced waiting times

0%

0%



Denver



CITY RATING

BACKGROUND INFORMATION



(UN Data)



Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.926	0.920	0.921	+0.001
Life expectancy at birth	78.9	78.9	77.4	77.2	-0.2
Expected years of schooling	16.3	16.3	16.3	16.3	+0.0
Mean years of schooling	13.4	13.4	13.7	13.7	+0.0
GNI per capita (PPP \$)	56,140	63,826	61,462	64,765	+3,304

PRIORITY AREAS

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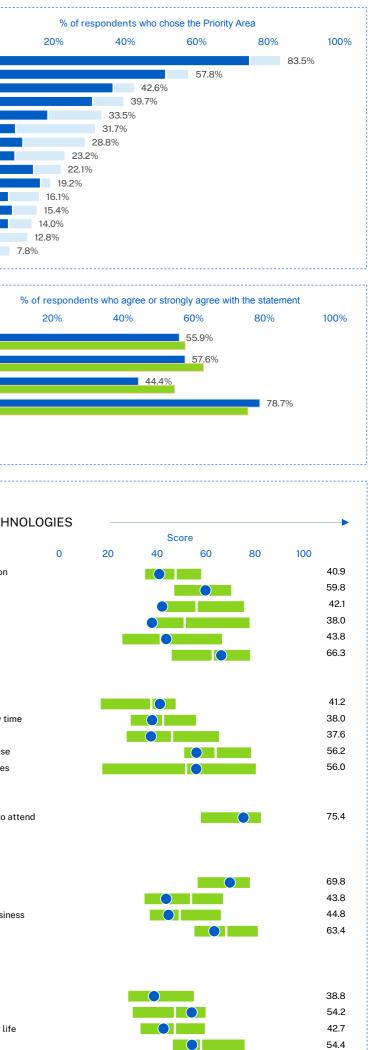
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0% affordable housing road congestion air pollution security school education unemployment health services fulfilling employment public transport corruption basic amenities recycling social mobility green spaces citizen engagement 7.8%

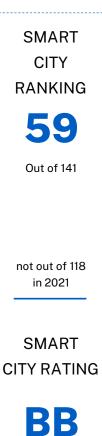
0%

ATTITUDES

BBB					LEGE	END: MIN	1	CITY MEAN GROUP MAX
BBB in 2021	STRUCT	URES						TECHNC
		0	20	Score 40 60	80	100		
	Health & Safety	0	20	40 00	00	100	40.0	Health & Safety
	Basic sanitation meets the needs of the poorest areas						49.6 62.0	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory Public safety is not a problem						36.1	A website or App allows residents to easily give away unwanted items Free public wifi has improved access to city services
	Air pollution is not a problem						30.2	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory						61.7	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a prob	em					17.2	A website of App allows residents to effectively inductor all politicion Arranging medical appointments online has improved access
BBB	Mobility							Mobility
	Traffic congestion is not a problem						20.8	Car-sharing Apps have reduced congestion
TRUCTURES	Public transport is satisfactory						49.1	Apps that direct you to an available parking space have reduced journey time
	· · ,							Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
BBB								The city provides information on traffic congestion through mobile phones
	Activities							Activities
CHNOLOGIES	Green spaces are satisfactory				\bigcirc		66.8	Online purchasing of tickets to shows and museums has made it easier to atte
	Cultural activities (shows, bars, and museums) are satisfactory						78.9	
	Opportunities (Work & School)							Opportunities (Work & School)
GROUP	Employment finding services are readily available						69.0	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school						57.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						61.8	Online services provided by the city has made it easier to start a new business
1	Businesses are creating new jobs						64.2	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome			\bigcirc			58.4	
	Governance							Governance
	Information on local government decisions are easily accessible						59.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						42.1	Online voting has increased participation
ratings range	Residents contribute to decision making of local government						53.6	An online platform where residents can propose ideas has improved city life
om AAA to D	Residents provide feedback on local government projects						62.4	Processing Identification Documents online has reduced waiting times



Doha



BACKGROUND INFORMATION



(UN Data)



Country	2018	2019	2020	2021	1 yr change
HDI	0.853	0.859	0.854	0.855	+0.001
Life expectancy at birth	80.9	81.0	79.1	79.3	+0.2
Expected years of schooling	12.0	12.3	12.6	12.6	+0.0
Mean years of schooling	9.9	10.0	10.0	10.0	+0.0
GNI per capita (PPP \$)	89,089	87,792	83,721	87,134	+3,413

PRIORITY AREAS

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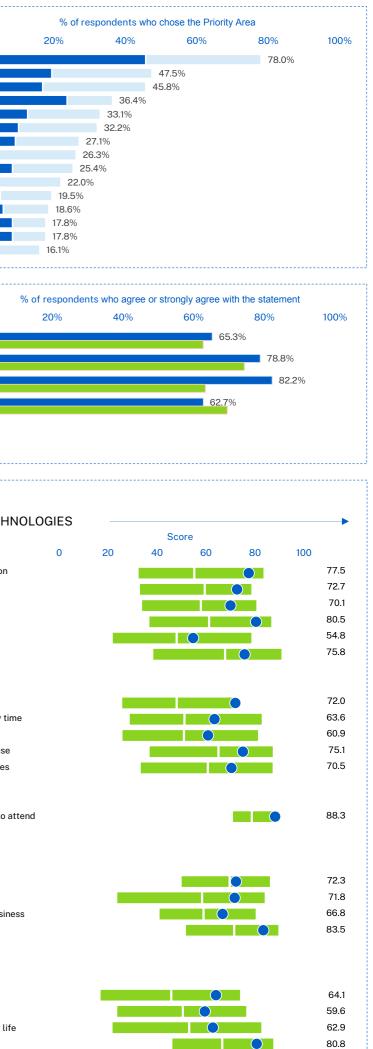
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0% affordable housing road congestion fulfilling employment unemployment air pollution green spaces recycling health services public transport basic amenities social mobility school education citizen engagement corruption security

0%

ATTITUDES

DD					LEGEN	ID: MIN C	MEAN GROUP MAX	
not in 2021	STRUC	TURES				•	•	TECHNO
				Score				
	Health & Safety	0	20	40 60	80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas					85.7	Online reporting of city maintenance p	problems provides a speedy solution
	Recycling services are satisfactory					76.0	A website or App allows residents to e	easily give away unwanted items
FACTOR	Public safety is not a problem					79.1	Free public wifi has improved access t	o city services
RATINGS	Air pollution is not a problem					60.6	CCTV cameras has made residents fee	el safer
	Medical services provision is satisfactory					85.7	A website or App allows residents to e	effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem				47.0	Arranging medical appointments onlin	e has improved access
BB	Mobility						Mobility	
	Traffic congestion is not a problem				1	59.6	Car-sharing Apps have reduced conge	stion
STRUCTURES	Public transport is satisfactory					75.8	Apps that direct you to an available pa	arking space have reduced journey time
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has	made public transport easier to use
B							The city provides information on traffic	c congestion through mobile phones
	Activities						Activities	
TECHNOLOGIES	Green spaces are satisfactory					75.4	Online purchasing of tickets to shows	and museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory					75.7		
	Opportunities (Work & School)						Opportunities (Work & Scho	ool)
GROUP	Employment finding services are readily available					50.6	Online access to job listings has made	it easier to find work
GROUP	Most children have access to a good school					67.9	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions					61.3	Online services provided by the city ha	as made it easier to start a new business
_	Businesses are creating new jobs					63.6	The current internet speed and reliabi	lity meet connectivity needs
•	Minorities feel welcome					68.9		
	Governance						Governance	
	Information on local government decisions are easily accessible					76.3	Online public access to city finances h	as reduced corruption
	Corruption of city officials is not an issue of concern					70.2	Online voting has increased participat	ion
All ratings range	Residents contribute to decision making of local government					50.3	An online platform where residents ca	n propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					53.5	Processing Identification Documents of	online has reduced waiting times



Dubai



BB

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)

Residents contribute to decision making of local government

Residents provide feedback on local government projects



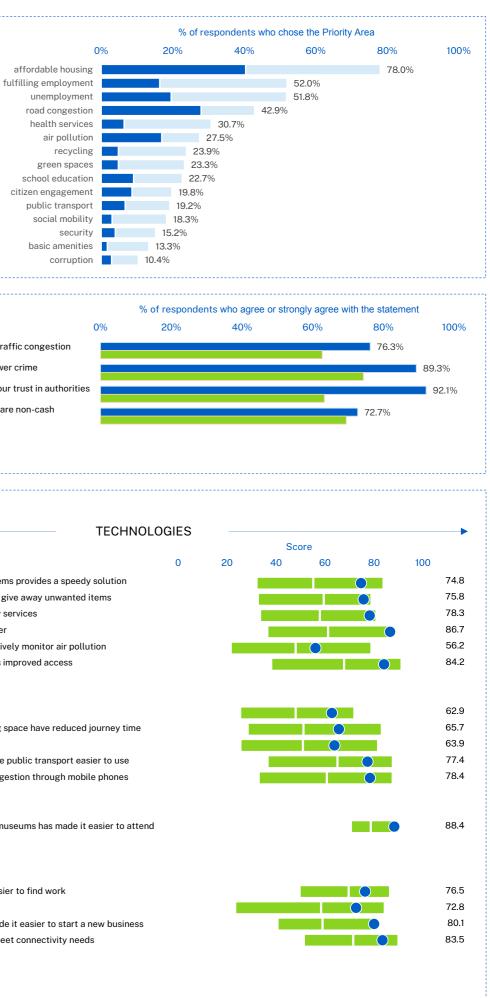
gn CC BY 3.0 Map Data ©

Country	2018	2019	2020	2021	1 yr change
HDI	0.866	0.890	0.912	0.911	-0.001
Life expectancy at birth	77.8	78.0	79.0	78.7	-0.2
Expected years of schooling	13.6	14.3	15.7	15.7	+0.0
Mean years of schooling	11.0	12.1	12.7	12.7	+0.0
GNI per capita (PPP \$)	66,912	67,462	63,016	62,574	-443
, 0					

PRIORITY AREAS

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ATTITUDES

LEGEND:

57.7

67.3

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

RR								
						LEGEN	ND: MIN	CITY MEAN GROUP MAX
A in 2021	STR	UCTURES						TECHNOL
				Sco	ore			
	Health & Safety	0	20	40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas						81	0 Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory						80	9 A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem						76	.1 Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						60	7 CCTV cameras has made residents feel safer
I.V.IIII GO	Medical services provision is satisfactory						83	4 A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	problem					52	3 Arranging medical appointments online has improved access
BB	Mobility							Mobility
	Traffic congestion is not a problem						48	9 Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory			~			80	3 Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
B								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						80	6 Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory						85	6
	Opportunities (Work & School)							Opportunities (Work & School)
	Employment finding services are readily available						66	7 Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school						73	5 IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						66	6 Online services provided by the city has made it easier to start a new business
_	Businesses are creating new jobs)	68	3 The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome						79.	5
	Governance							Governance
	Information on local government decisions are easily accessible						87	7 Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						75.	9 Online voting has increased participation

 \bigcirc

All ratings range from AAA to D



An online platform where residents can propose ideas has improved city life

Processing Identification Documents online has reduced waiting times

Dublin



BB

BACKGROUND INFORMATION

City	
Population	HDI
1,423,957	0.950

(Eurostat)

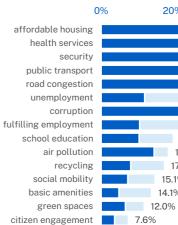


Country	2018	2019	2020	2021	1 yr change
HDI	0.942	0.955	0.943	0.945	+0.002
Life expectancy at birth	82.1	82.3	82.5	82.0	-0.5
Expected years of schooling	18.8	18.7	18.0	18.0	+0.0
Mean years of schooling	12.5	12.7	11.6	11.6	+0.0
GNI per capita (PPP \$)	55,660	68,371	67,736	76,169	+8,433

PRIORITY AREAS

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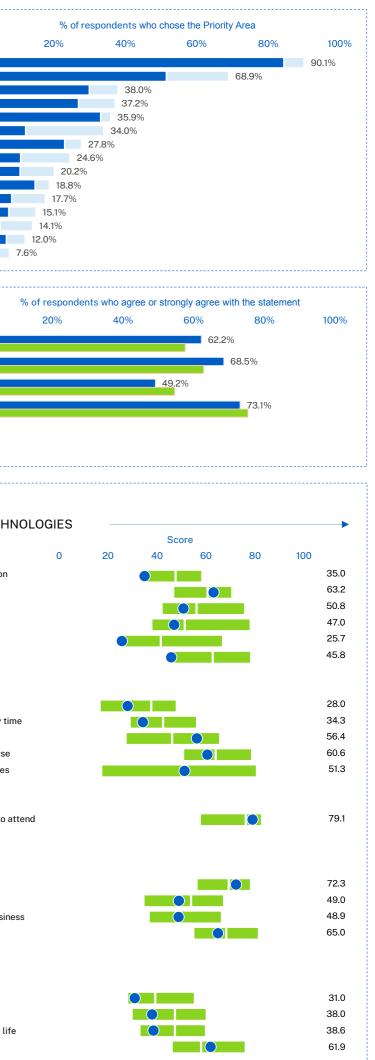
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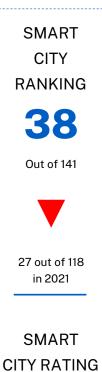
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ATTITUDES

DD			LEGEND:	MIN 🔵	CITY MEAN GROUP MAX
BBB in 2021	STRUCTURES —				TECHNOL
		Score			
	Health & Safety 0 20	40 60	80 100)	Health & Safety
	Basic sanitation meets the needs of the poorest areas			55.1	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory			61.8	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem			31.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem			39.2	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory			36.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem			10.5	Arranging medical appointments online has improved access
BB	Mobility				Mobility
	Traffic congestion is not a problem			19.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory			42.7	Apps that direct you to an available parking space have reduced journey time
					Bicycle hiring has reduced congestion
					Online scheduling and ticket sales has made public transport easier to use
BBB					The city provides information on traffic congestion through mobile phones
	Activities				Activities
TECHNOLOGIES	Green spaces are satisfactory			55.7	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory			68.4	
	Opportunities (Work & School)				Opportunities (Work & School)
	Employment finding services are readily available			67.0	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school			65.3	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions			60.2	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs			61.1	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome			54.6	
	Governance				Governance
	Information on local government decisions are easily accessible			51.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern			33.1	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government			37.2	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects			51.1	Processing Identification Documents online has reduced waiting times



Dusseldorf



BB

BACKGROUND INFORMATION



(Eurostat)

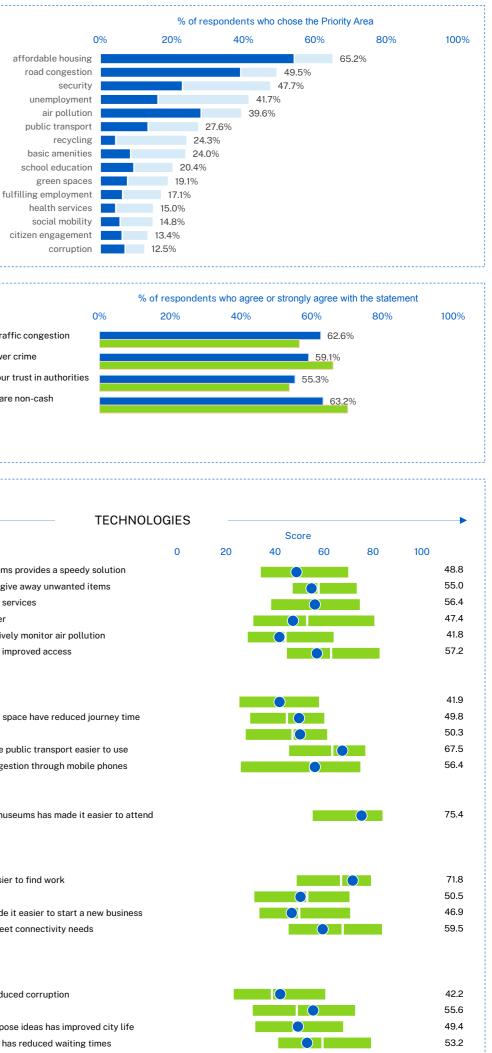


2018	2019	2020	2021	1 yr change
0.939	0.947	0.944	0.942	-0.002
81.2	81.3	81.2	80.6	-0.5
17.1	17.0	17.0	17.0	+0.0
14.1	14.2	14.1	14.1	+0.0
46,946	55,314	53,078	54,534	+1,457
	0.939 81.2 17.1 14.1	0.939 0.947 81.2 81.3 17.1 17.0 14.1 14.2	0.939 0.947 0.944 81.2 81.3 81.2 17.1 17.0 17.0 14.1 14.2 14.1	0.9390.9470.9440.94281.281.381.280.617.117.017.017.014.114.214.114.1

PRIORITY AREAS

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ATTITUDES

DD						LEGEN	ND: MIN	1	CITY MEAN GROUP MAX	
A in 2021	STRUC	TURES							•	TECHNOLO
				Sco	ore					
	Health & Safety	0	20	40	60	80	100		Health & Safety	
	Basic sanitation meets the needs of the poorest areas)		68.5	Online reporting of city maintenance proble	ems provides a speedy solution
	Recycling services are satisfactory					\bigcirc		75.1	A website or App allows residents to easily	give away unwanted items
FACTOR	Public safety is not a problem				\bigcirc			60.8	Free public wifi has improved access to city	v services
RATINGS	Air pollution is not a problem							43.3	CCTV cameras has made residents feel saf	er
	Medical services provision is satisfactory					\bigcirc		76.8	A website or App allows residents to effect	ively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem						28.8	Arranging medical appointments online has	s improved access
BBB	Mobility								Mobility	
	Traffic congestion is not a problem							34.7	Car-sharing Apps have reduced congestion	
STRUCTURES	Public transport is satisfactory							60.5	Apps that direct you to an available parking	
omooromeo								0010	Bicycle hiring has reduced congestion	
									Online scheduling and ticket sales has mad	e public transport easier to use
									The city provides information on traffic con	
BB										
	Activities								Activities	
TECHNOLOGIES	Green spaces are satisfactory							65.3	Online purchasing of tickets to shows and r	nuseums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory			I		\bigcirc		77.4		
	Opportunities (Work & School)								Opportunities (Work & School)	
	Employment finding services are readily available							61.8	Online access to job listings has made it ea	sier to find work
GROUP	Most children have access to a good school							66.0	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions							59.2	Online services provided by the city has ma	de it easier to start a new business
	Businesses are creating new jobs							61.0	The current internet speed and reliability m	eet connectivity needs
2	Minorities feel welcome							59.7		
	Governance								Governance	
	Information on local government decisions are easily accessible							56.3	Online public access to city finances has re	duced corruption
	Corruption of city officials is not an issue of concern							55.0	Online voting has increased participation	· · · · · · · · · · · · · · · · · · ·
All ratings range	Residents contribute to decision making of local government							52.3	An online platform where residents can pro	pose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects							57.8	Processing Identification Documents online	
	······································							-		

Geneva



ΔΔ

BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.946	0.955	0.956	0.962	+0.006
Life expectancy at birth	83.6	83.8	83.1	84.0	+0.9
Expected years of schooling	16.2	16.3	16.5	16.5	+0.0
Mean years of schooling	13.4	13.4	13.9	13.9	+0.0
GNI per capita (PPP \$)	59,375	69,394	65,011	66,933	+1,922

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city. The left-hand, dark blue section of each bar shows

the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% affordable housing road congestion unemployment security fulfilling employment air pollution corruption health services recycling public transport green spaces social mobility school education citizen engagement 11.8% basic amenities 9.3%

0%

ATTITUDES

AA					LEGEND	D: MIN C	MEAN GROUP MAX	
AA in 2021	STRUCT	URES				•	•	TECHNO
				Score				
	Health & Safety	0	20 4	40 60	80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas					71.8	Online reporting of city maintenance pr	oblems provides a speedy solution
FAOTOD	Recycling services are satisfactory					73.6	A website or App allows residents to ea	sily give away unwanted items
FACTOR	Public safety is not a problem				\bigcirc	67.9	Free public wifi has improved access to	city services
RATINGS	Air pollution is not a problem					51.4	CCTV cameras has made residents feel	safer
	Medical services provision is satisfactory					77.6	A website or App allows residents to ef	fectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a prob	lem	\bigcirc			21.8	Arranging medical appointments online	has improved access
AA	Mobility						Mobility	
	Traffic congestion is not a problem					29.2	Car-sharing Apps have reduced conges	tion
STRUCTURES	Public transport is satisfactory					69.6	Apps that direct you to an available par	king space have reduced journey time
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has	nade public transport easier to use
Δ							The city provides information on traffic	congestion through mobile phones
~	Activities						Activities	
TECHNOLOGIES	Green spaces are satisfactory					81.5	Online purchasing of tickets to shows a	nd museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory					78.3		
	Opportunities (Work & School)						Opportunities (Work & Scho	bl)
	Employment finding services are readily available					63.0	Online access to job listings has made i	
GROUP	Most children have access to a good school					81.2	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions					71.2	Online services provided by the city has	made it easier to start a new business
-	Businesses are creating new jobs					46.6	The current internet speed and reliabili	
	Minorities feel welcome					60.3		
	Governance						Governance	
	Information on local government decisions are easily accessible					67.2	Online public access to city finances ha	s reduced corruption
	Corruption of city officials is not an issue of concern					51.3	Online voting has increased participatio	
All ratings range	Residents contribute to decision making of local government					64.5	An online platform where residents car	
from AAA to D	Residents provide feedback on local government projects		- 1			65.6	Processing Identification Documents of	
[]								



Glasgow



BACKGROUND INFORMATION



(Eurostat)

SMART **CITY RATING**



B in 2021

FACTOR RATINGS BB

STRUCTURES

B TECHNOLOGIES

GROUP



All ratings range from AAA to D

HDI 0.921 627,479



Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.932	0.924	0.929	+0.005
Life expectancy at birth	81.2	81.3	80.4	80.7	+0.3
Expected years of schooling	17.4	17.5	17.3	17.3	+0.0
Mean years of schooling	13.0	13.2	13.4	13.4	+0.0
GNI per capita (PPP \$)	39,507	46,071	42,375	45,225	+2,850

PRIORITY AREAS

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0% affordable housing health services unemployment fulfilling employment road congestion public transport school education recycling security air pollution social mobility green spaces basic amenities corruption citizen engagement 10.3%

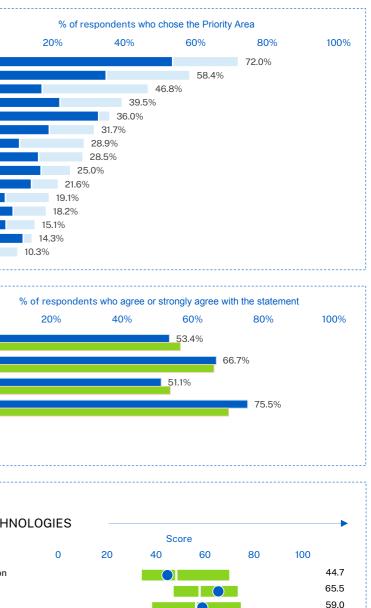
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

	STRUCTURES					TECHNO	LOGIES				
	000.0		Score						Score		
lealth & Safety	0	20	40 60	80	100	Health & Safety	0	20	40 60	80	100
sic sanitation meets the needs of the poorest areas					57.4	Online reporting of city maintenance problems provides a speedy solution					
ecycling services are satisfactory					56.1	A website or App allows residents to easily give away unwanted items					
ıblic safety is not a problem					44.3	Free public wifi has improved access to city services					
r pollution is not a problem			\bigcirc		37.5	CCTV cameras has made residents feel safer					
edical services provision is satisfactory					51.4	A website or App allows residents to effectively monitor air pollution		(
nding housing with rent equal to 30% or less of a monthly salary	is not a problem		\bigcirc		32.8	Arranging medical appointments online has improved access					
lobility						Mobility					
affic congestion is not a problem		\bigcirc			26.5	Car-sharing Apps have reduced congestion					
Iblic transport is satisfactory					52.5	Apps that direct you to an available parking space have reduced journey time					
						Bicycle hiring has reduced congestion		1			
						Online scheduling and ticket sales has made public transport easier to use					
						The city provides information on traffic congestion through mobile phones				-	
ctivities						Activities					
reen spaces are satisfactory					67.7	Online purchasing of tickets to shows and museums has made it easier to atten	d				
ltural activities (shows, bars, and museums) are satisfactory					76.2						
pportunities (Work & School)						Opportunities (Work & School)					
nployment finding services are readily available					63.0	Online access to job listings has made it easier to find work					
ost children have access to a good school					63.3	IT skills are taught well in schools					
elong learning opportunities are provided by local institutions					60.9	Online services provided by the city has made it easier to start a new business					
usinesses are creating new jobs					52.5	The current internet speed and reliability meet connectivity needs)	
inorities feel welcome					63.2						
overnance						Governance					
formation on local government decisions are easily accessible					55.0	Online public access to city finances has reduced corruption					
prruption of city officials is not an issue of concern					41.0	Online voting has increased participation				1	
esidents contribute to decision making of local government					40.2	An online platform where residents can propose ideas has improved city life					
esidents provide feedback on local government projects				_	52.0	Processing Identification Documents online has reduced waiting times					



55.0
59.3
29.0
44.7

Gothenburg



BACKGROUND INFORMATION

HDI

0.944



(Eurostat)

SMART **CITY RATING**



BBB in 2021

FACTO RATIN

A

TECHNOLOGIES

GROUP



OR	Public s
NGS	Air poll
	Medica

STRUCTURES

A

Most Lifelor Busin

Gov

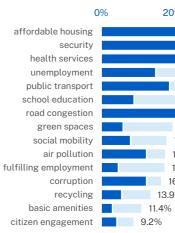


_						i.
Country	2018	2019	2020	2021	1 yr change	
HDI	0.937	0.945	0.942	0.947	+0.005	
Life expectancy at birth	82.7	82.8	82.4	83.0	+0.5	i.
Expected years of schooling	18.8	19.5	18.0	18.0	+0.0	
Mean years of schooling	12.4	12.5	12.6	12.6	+0.0	
GNI per capita (PPP \$)	47,955	54,508	52,359	54,489	+2,130	

PRIORITY AREAS

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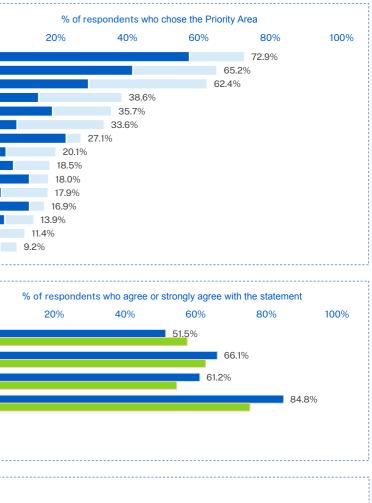
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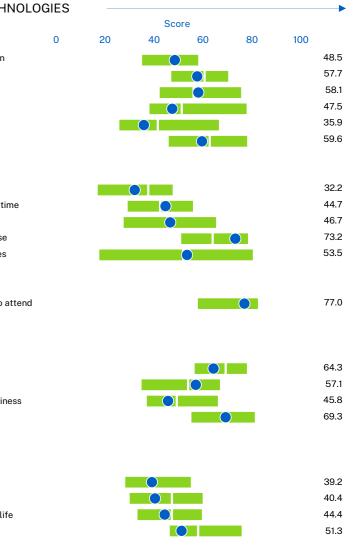
ATTITUDES

LEGEND:

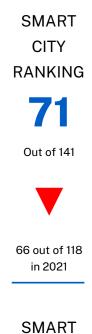
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

	STRUCTURES				LEGEND:	MIN		
	STRUCTURES		Sco	ore				TECHNOLOGI
Health & Safety	0	20	40	60	80	100		Health & Safety
Basic sanitation meets the needs of the poorest areas							63.9	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory							68.0	A website or App allows residents to easily give away unwanted items
Public safety is not a problem							44.2	Free public wifi has improved access to city services
Air pollution is not a problem					ī .		50.5	CCTV cameras has made residents feel safer
Medical services provision is satisfactory							59.0	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary	is not a problem						29.2	Arranging medical appointments online has improved access
Mobility								Mobility
Traffic congestion is not a problem							31.5	Car-sharing Apps have reduced congestion
Public transport is satisfactory							56.6	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
								The city provides information on traffic congestion through mobile phones
Activities								Activities
Green spaces are satisfactory							79.0	Online purchasing of tickets to shows and museums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory							77.8	
Opportunities (Work & School)								Opportunities (Work & School)
Employment finding services are readily available							66.0	Online access to job listings has made it easier to find work
Most children have access to a good school							70.4	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions							66.9	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs							68.5	The current internet speed and reliability meet connectivity needs
Minorities feel welcome							58.9	
Governance								Governance
Information on local government decisions are easily accessible							63.8	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern							52.6	Online voting has increased participation
Residents contribute to decision making of local government							46.5	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects							51.1	Processing Identification Documents online has reduced waiting times





Guangzhou



CITY RATING

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



es by Stamen Design CC BY 3.0 Map Data © OpenStreetN

Country	2018	2019	2020	2021	1 yr change
HDI	0.758	0.761	0.764	0.768	+0.004
Life expectancy at birth	76.7	76.9	78.1	78.2	+0.1
Expected years of schooling	13.9	14.0	14.2	14.2	+0.0
Mean years of schooling	7.9	8.1	7.6	7.6	+0.0
GNI per capita (PPP \$)	16,127	16,057	16,201	17,504	+1,303

PRIORITY AREAS

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0% road congestion air pollution affordable housing fulfilling employment health services basic amenities public transport social mobility school education corruption green spaces unemployment recycling security citizen engagement

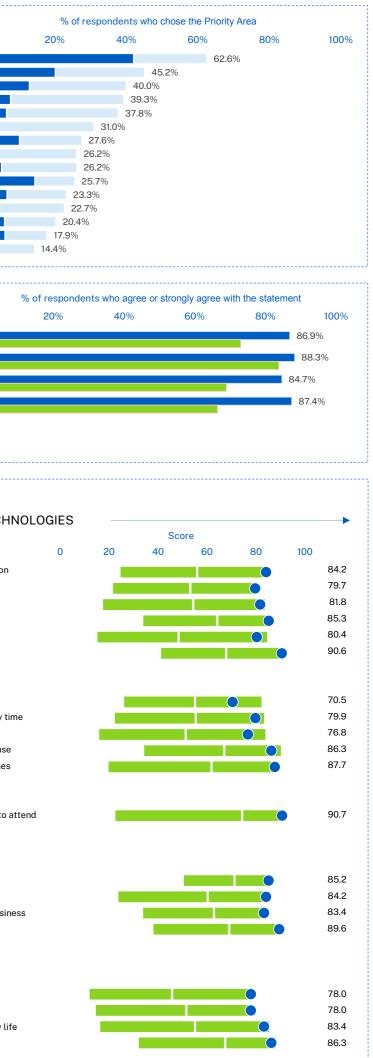
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CCC	· · · · · · · · · · · · · · · · · · ·				;	
				LEGE	ND: MIN	CITY MEAN GROUP MAX
CCC in 2021	STRI	UCTURES -	Score		•	TECHNOI
	Health & Safety	0 20	40 6	0 80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				83.7	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				77.1	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				69.6	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				60.3	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	I			80.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	problem			61.6	Arranging medical appointments online has improved access
CCC	Mobility					Mobility
	Traffic congestion is not a problem				45.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				70.0	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
CCC						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				76.6	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory				84.6	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				80.0	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school			\bigcirc	76.6	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				68.5	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs				78.9	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome			\bigcirc	82.2	
	Governance					Governance
	Information on local government decisions are easily accessible				78.5	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				62.9	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				69.9	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	-			78.5	Processing Identification Documents online has reduced waiting times



Guatemala City



BACKGROUND INFORMATION





Population HDI 3,036,405 0.722

(UN World Urbanisation Prospects 2022 estimate)

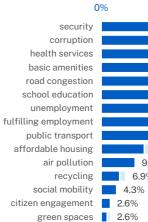


Country	2018	2019	2020	2021	1 yr change
HDI	0.640	0.642	0.635	0.627	-0.008
Life expectancy at birth	72.7	73.1	71.8	69.2	-2.6
Expected years of schooling	10.6	10.6	10.6	10.6	+0.0
Mean years of schooling	5.7	5.7	5.7	5.7	+0.0
GNI per capita (PPP \$)	8,289	8,494	8,241	8,723	+482

PRIORITY AREAS

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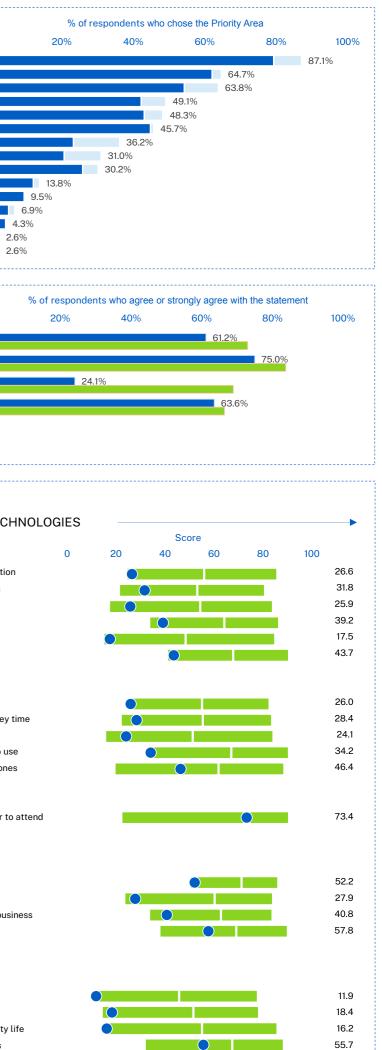
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0%

ATTITUDES

U						LEGEN	ID: MIN	•	CITY MEAN GROUP MAX
not in 2021	STRUCT	URES						-	TECHNOLO
				Score					
	Health & Safety	0	20	40	60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas							21.3	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory							20.5	A website or App allows residents to easily give away unwanted items
TACION	Public safety is not a problem)					11.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		\bigcirc					30.2	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory							22.1	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a proble	em						26.0	Arranging medical appointments online has improved access
D	Mobility								Mobility
_	Traffic congestion is not a problem							12.8	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory							18.0	Apps that direct you to an available parking space have reduced journey time
			Ū.			_			Bicycle hiring has reduced congestion
									Online scheduling and ticket sales has made public transport easier to use
D									The city provides information on traffic congestion through mobile phones
	Activities								Activities
TECHNOLOGIES	Green spaces are satisfactory)			55.0	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory							58.2	
	Opportunities (Work & School)								Opportunities (Work & School)
	Employment finding services are readily available							46.3	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school							10.6	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions							24.1	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs							39.1	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome							23.9	
	Governance								Governance
	Information on local government decisions are easily accessible							23.6	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern							8.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government)					11.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects							15.5	Processing Identification Documents online has reduced waiting times
	·····		-					-	



Hamburg



CITY RATING

A

BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.939	0.947	0.944	0.942	-0.002
Life expectancy at birth	81.2	81.3	81.2	80.6	-0.5
Expected years of schooling	17.1	17.0	17.0	17.0	+0.0
Mean years of schooling	14.1	14.2	14.1	14.1	+0.0
GNI per capita (PPP \$)	46,946	55,314	53,078	54,534	+1,457

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

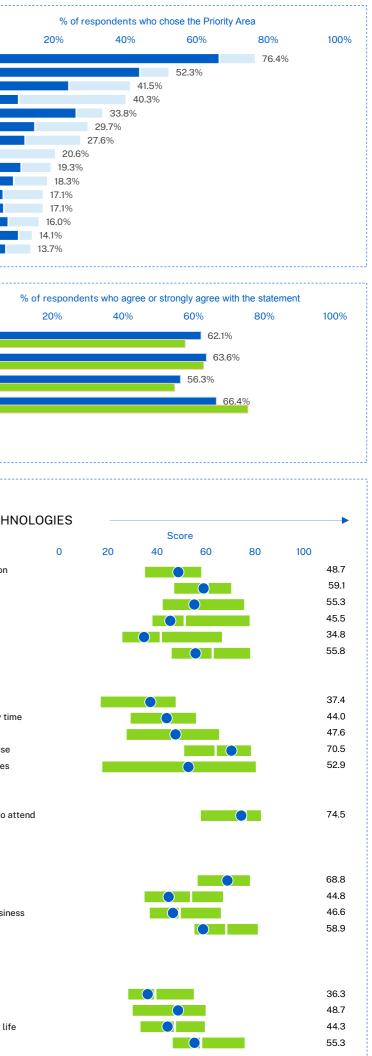
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0% affordable housing road congestion security unemployment air pollution public transport school education recycling green spaces health services social mobility basic amenities citizen engagement corruption fulfilling employment

0%

ATTITUDES

A				LEGE	ND: MIN	ITY MEAN GROUP MAX
A in 2021	 S٦ 	TRUCTURES -			•	TECHNO
			Score			
	Health & Safety	0 20	40 6	60 80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				70.0	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				73.7	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				56.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				42.3	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				72.9	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is no	ot a problem			23.0	Arranging medical appointments online has improved access
A	Mobility					Mobility
	Traffic congestion is not a problem				30.4	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory			\bigcirc	62.8	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
BBB						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				69.5	Online purchasing of tickets to shows and museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory				80.9	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				68.4	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				66.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				61.7	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs			\bigcirc	62.0	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				61.4	
	Governance					Governance
	Information on local government decisions are easily accessible				56.6	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				54.7	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				54.7	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				55.9	Processing Identification Documents online has reduced waiting times



Hangzhou



SMART

CITY RATING

CCC

CCC in 2021

FACTOR

RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



8,044,878

ulation HDI

(UN World Urbanisation Prospects 2022 estimate)

0.801



ap tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetN

2018	2019	2020	2021	1 yr change
0.758	0.761	0.764	0.768	+0.004
76.7	76.9	78.1	78.2	+0.1
13.9	14.0	14.2	14.2	+0.0
7.9	8.1	7.6	7.6	+0.0
16,127	16,057	16,201	17,504	+1,303
	0.758 76.7 13.9 7.9	0.758 0.761 76.7 76.9 13.9 14.0 7.9 8.1	0.758 0.761 0.764 76.7 76.9 78.1 13.9 14.0 14.2 7.9 8.1 7.6	0.758 0.761 0.764 0.768 76.7 76.9 78.1 78.2 13.9 14.0 14.2 14.2 7.9 8.1 7.6 7.6

PRIORITY AREAS

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the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% road congestion affordable housing air pollution fulfilling employment health services social mobility basic amenities corruption security school education public transport recycling green spaces unemployment citizen engagement

0%

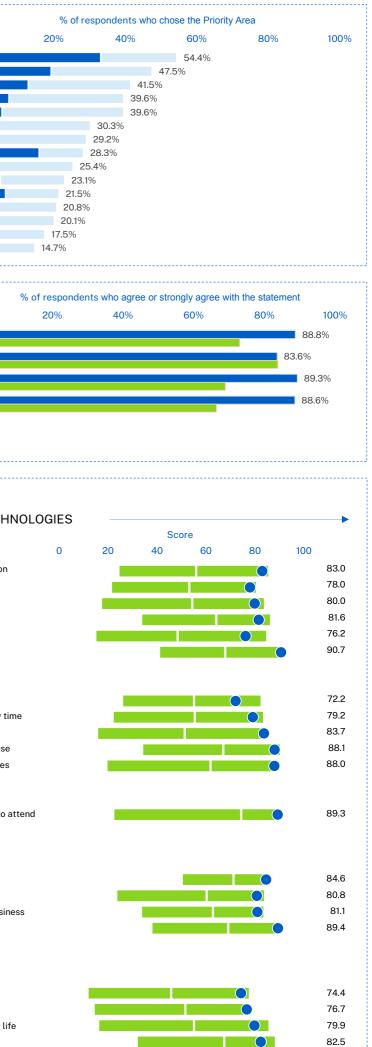
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

STRUCTURES						TECHNOL
		Sc	ore			
Health & Safety 0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas					84.9	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory					79.4	A website or App allows residents to easily give away unwanted items
Public safety is not a problem				\bigcirc	77.2	Free public wifi has improved access to city services
Air pollution is not a problem)	67.9	CCTV cameras has made residents feel safer
ledical services provision is satisfactory				\bigcirc	81.0	A website or App allows residents to effectively monitor air pollution
inding housing with rent equal to 30% or less of a monthly salary is not a problem			\bigcirc		63.3	Arranging medical appointments online has improved access
Mobility						Mobility
raffic congestion is not a problem		(50.3	Car-sharing Apps have reduced congestion
Public transport is satisfactory					72.2	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
						The city provides information on traffic congestion through mobile phones
Activities						Activities
Green spaces are satisfactory				\bigcirc	82.8	Online purchasing of tickets to shows and museums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory					80.5	
Opportunities (Work & School)						Opportunities (Work & School)
Employment finding services are readily available				\bigcirc	81.6	Online access to job listings has made it easier to find work
Most children have access to a good school					77.8	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions				\bigcirc	73.7	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs					78.8	The current internet speed and reliability meet connectivity needs
Minorities feel welcome				\bigcirc	82.7	
Governance						Governance
Information on local government decisions are easily accessible				\bigcirc	75.6	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern			\bigcirc		58.3	Online voting has increased participation
Residents contribute to decision making of local government			\bigcirc		65.5	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects						



Hanoi



SMART

CITY RATING

BACKGROUND INFORMATION





(UN World Urbanisation Prospects 2022 estimate)



Country	2018	2019	2020	2021	1 yr change
HDI	0.693	0.704	0.710	0.703	-0.007
Life expectancy at birth	75.3	75.4	75.4	73.6	-1.8
Expected years of schooling	12.7	12.7	13.0	13.0	+0.0
Mean years of schooling	8.2	8.3	8.4	8.4	+0.0
GNI per capita (PPP \$)	6,220	7,433	7,742	7,867	+125

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city. The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A

strong Alignment (i.e. consistency across both

areas explained) means that these areas may

benefit from close observation.

road congestion basic amenities corruption affordable housing green spaces public transport health services security recycling unemployment fulfilling employment school education social mobility 6.9% citizen engagement 5.8%

air pollution

0%

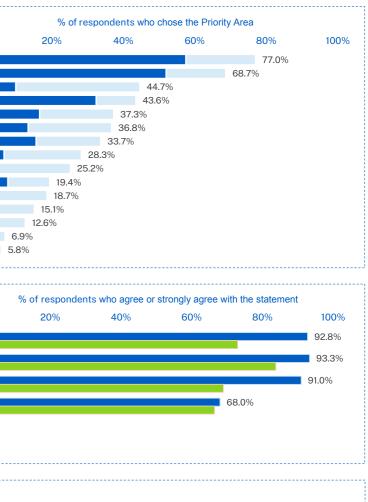
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CCC			
		LEGEND: MIN	Y MEAN GROUP MAX
CC in 2021	STRUCTURES Score		TECHNOLO
	Health & Safety 0 20 40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	72.9	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	66.3	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	82.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	31.5	CCTV cameras has made residents feel safer
NATINGS	Medical services provision is satisfactory	77.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	58.1	Arranging medical appointments online has improved access
CCC	Mobility		Mobility
	Traffic congestion is not a problem	27.0	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	54.0	Apps that direct you to an available parking space have reduced journey time
		—	Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
CCC			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	66.4	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	77.7	
	Opportunities (Work & School)		Opportunities (Work & School)
GROUP	Employment finding services are readily available	80.8	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	83.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	67.1	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	83.1	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome	74.9	
	Governance		Governance
	Information on local government decisions are easily accessible	79.1	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	38.3	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	67.9	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	74.2	Processing Identification Documents online has reduced waiting times



LOGIES Score 100 0 20 40 60 80 75.9 70.3 70.2 80.2 69.0 \bigcirc 81.7 \bigcirc 74.0 78.2 57.3 \bigcirc 76.7 \bigcirc 70.3 84.8 nd 84.8 79.4 79.7 83.1 64.0 70.4 73.0 \bigcirc 81.6

Hanover



CITY RATING

BB

BACKGROUND INFORMATION

City	
Population	HDI
8,003,421	0.930

(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.939	0.947	0.944	0.942	-0.002
Life expectancy at birth	81.2	81.3	81.2	80.6	-0.5
Expected years of schooling	17.1	17.0	17.0	17.0	+0.0
Mean years of schooling	14.1	14.2	14.1	14.1	+0.0
GNI per capita (PPP \$)	46,946	55,314	53,078	54,534	+1,457

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

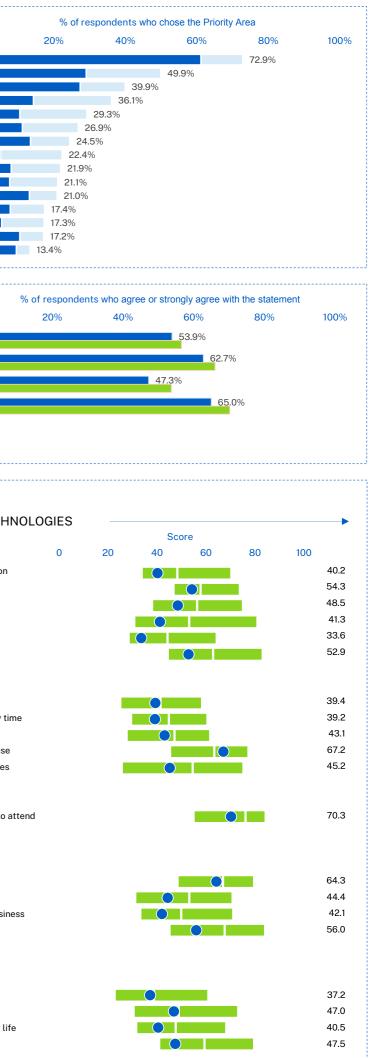
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0% affordable housing security road congestion unemployment school education public transport citizen engagement recycling health services social mobility air pollution green spaces basic amenities fulfilling employment corruption

0%

ATTITUDES

DD						LEGEN	ID: MIN	
BB in 2021	STRUCT	URES						TECHNOLC
		-		Scor			100	
	Health & Safety	0	20	40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas						70.0	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory					\bigcirc	74.7	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem			(52.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						51.7	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				(72.3	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a prob	lem					25.2	Arranging medical appointments online has improved access
BBB	Mobility							Mobility
	Traffic congestion is not a problem						42.3	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory						67.1	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
B								The city provides information on traffic congestion through mobile phones
Ľ	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						70.8	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory			- 7			77.3	
	Opportunities (Work & School)							Opportunities (Work & School)
GROUP	Employment finding services are readily available				\bigcirc		62.9	Online access to job listings has made it easier to find work
ancor	Most children have access to a good school						67.1	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				\bigcirc		58.6	Online services provided by the city has made it easier to start a new business
2	Businesses are creating new jobs				\bigcirc		57.6	The current internet speed and reliability meet connectivity needs
_	Minorities feel welcome						59.2	
	Governance							Governance
	Information on local government decisions are easily accessible						53.6	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				\bigcirc		55.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government						48.8	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						49.6	Processing Identification Documents online has reduced waiting times



Helsinki



BACKGROUND INFORMATION



(Eurostat)

in 2021

SMART **CITY RATING**



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AAA in 20
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FACTO RATING AA

STRUCTUR

A TECHNOLO

GROUI



from AAA

HDI 0.960



Country	2018	2019	2020	2021	1 yr change
HDI	0.925	0.938	0.938	0.940	+0.002
Life expectancy at birth	81.7	81.9	81.9	82.0	+0.2
Expected years of schooling	19.3	19.4	18.0	18.0	+0.0
Mean years of schooling	12.4	12.8	12.9	12.9	+0.0
GNI per capita (PPP \$)	41,779	48,511	47,946	49,452	+1,506

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

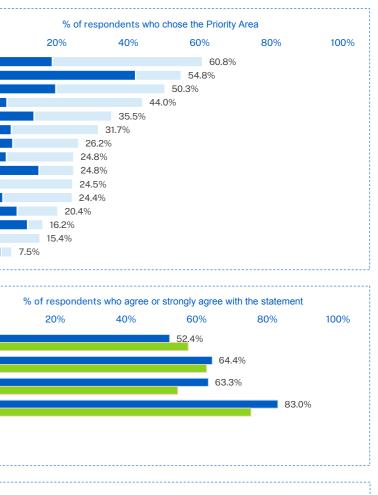
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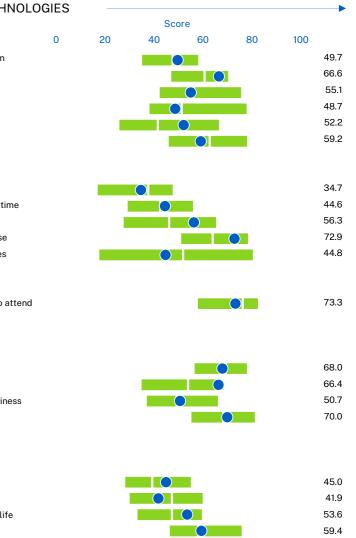
0% health services affordable housing security public transport unemployment recycling basic amenities green spaces road congestion school education fulfilling employment social mobility air pollution citizen engagement corruption 7.5%

0%

ATTITUDES

						LEGEN	D: MIN	GITY MEAN GROUP MAX.
2021		RES						TECHNO
	Health & Cafety	0	20	Sco 40	ore 60	80	100	Health & Safety
	Health & Safety	Ŭ	20	40	00	00	70.2	-
	Basic sanitation meets the needs of the poorest areas						76.7	Online reporting of city maintenance problems provides a speedy solution
OR	Recycling services are satisfactory						62.4	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem						59.6	Free public wifi has improved access to city services
IGS	Air pollution is not a problem						65.1	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	_			\bigcirc			A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem						32.2	Arranging medical appointments online has improved access
Δ								Mahilita
	Mobility						50.0	Mobility
	Traffic congestion is not a problem			(50.9	Car-sharing Apps have reduced congestion
JRES	Public transport is satisfactory						78.3	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
								The city provides information on traffic congestion through mobile phones
	Activities							Activities
OGIES	Green spaces are satisfactory						75.9	Online purchasing of tickets to shows and museums has made it easier to atte
e di Le	Cultural activities (shows, bars, and museums) are satisfactory						76.9	
							1010	
	Opportunities (Work & School)							Opportunities (Work & School)
	Employment finding services are readily available						66.5	Online access to job listings has made it easier to find work
JP	Most children have access to a good school					\bigcirc	80.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						74.6	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs						74.4	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome						56.1	
	Governance							Governance
	Information on local government decisions are easily accessible						64.6	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						59.5	Online voting has increased participation
range	Residents contribute to decision making of local government				\bigcirc		54.3	An online platform where residents can propose ideas has improved city life
A to D	Residents provide feedback on local government projects						65.1	Processing Identification Documents online has reduced waiting times





Ho Chi Minh City



SMART

CITY RATING

BACKGROUND INFORMATION

City

Population HDI 9,077,158 0.714

(UN World Urbanisation Prospects 2022 estimate)

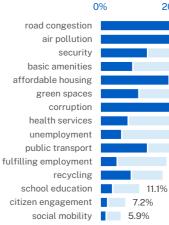


Country	2018	2019	2020	2021	1 yr change
HDI	0.693	0.704	0.710	0.703	-0.007
Life expectancy at birth	75.3	75.4	75.4	73.6	-1.8
Expected years of schooling	12.7	12.7	13.0	13.0	+0.0
Mean years of schooling	8.2	8.3	8.4	8.4	+0.0
GNI per capita (PPP \$)	6,220	7,433	7,742	7,867	+125

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

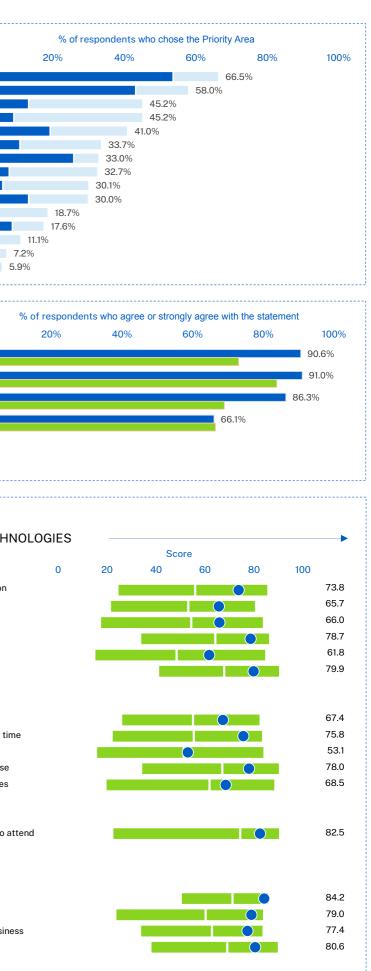
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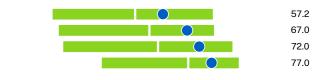


0%

ATTITUDES

	·				i	·	
					LEGEND	D: MIN	CITY MEAN GROUP MAX
CC in 2021	STRUC	TURES		Score			TECHNO
	Health & Safety	0	20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					7	71.5 Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					63	63.9 A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					72	72.9 Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					36	36.2 CCTV cameras has made residents feel safer
NATINGS	Medical services provision is satisfactory					75	75.0 A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem				50	56.1 Arranging medical appointments online has improved access
CCC	Mobility						Mobility
	Traffic congestion is not a problem					26	26.0 Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					53	53.2 Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
CCC							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory)	65	05.3 Online purchasing of tickets to shows and museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory					70	76.1
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					82	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					83	33.4 IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					66	66.5 Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs				\bigcirc	79	79.6 The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome					72	72.9
	Governance						Governance
	Information on local government decisions are easily accessible				\bigcirc	75	75.6 Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	- I				37	37.7 Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					63	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					70	70.8 Processing Identification Documents online has reduced waiting times





Hong Kong



SMART

CITY RATING

ΔΔ

A in 2021

FACTOR

RATINGS

BBB

STRUCTURES

AAA

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN Data)

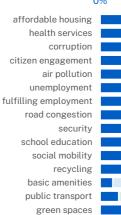


Country	2018	2019	2020	2021	1 yr change
HDI	0.939	0.949	NA	NA	NA
Life expectancy at birth	84.7	84.9	NA	NA	NA
Expected years of schooling	16.5	16.9	NA	NA	NA
Mean years of schooling	12.0	12.3	NA	NA	NA
GNI per capita (PPP \$)	60,221	62,985	58,644	62,607	+3,963

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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ATTITUDES

LEGEND:

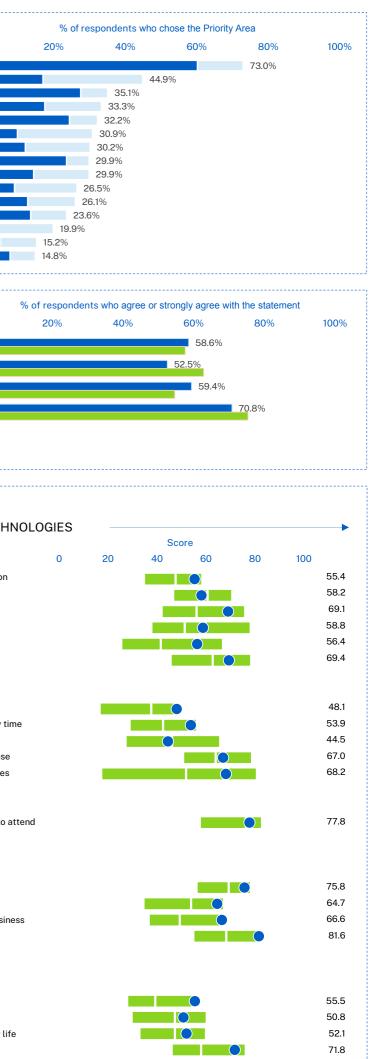
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

						LEGEN	ID: MIN	CITY MEAN GROUP MAX	
•	STRUCTUR	RES						TECHN	ЭL
					core	~~	100		
Health & Safety		0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of th	e poorest areas					\bigcirc	74.9	Online reporting of city maintenance problems provides a speedy solution	
Recycling services are satisfactory							50.0	A website or App allows residents to easily give away unwanted items	
Public safety is not a problem							59.3	Free public wifi has improved access to city services	
Air pollution is not a problem							30.8	CCTV cameras has made residents feel safer	
Medical services provision is satisfacto	ory				\bigcirc		63.6	A website or App allows residents to effectively monitor air pollution	
Finding housing with rent equal to 309	6 or less of a monthly salary is not a problem		\bigcirc				26.0	Arranging medical appointments online has improved access	
Mobility								Mobility	
Traffic congestion is not a problem							30.8	Car-sharing Apps have reduced congestion	
Public transport is satisfactory							65.7	Apps that direct you to an available parking space have reduced journey time)
								Bicycle hiring has reduced congestion	
								Online scheduling and ticket sales has made public transport easier to use	
								The city provides information on traffic congestion through mobile phones	
Activities								Activities	
Green spaces are satisfactory							53.8	Online purchasing of tickets to shows and museums has made it easier to att	enc
Cultural activities (shows, bars, and m	useums) are satisfactory						59.7		
Opportunities (Work & Scho	ol)							Opportunities (Work & School)	
Employment finding services are readi							69.7	Online access to job listings has made it easier to find work	
Most children have access to a good se	chool						65.5	IT skills are taught well in schools	
Lifelong learning opportunities are pro	vided by local institutions)	67.3	Online services provided by the city has made it easier to start a new busines	s
Businesses are creating new jobs							59.9	The current internet speed and reliability meet connectivity needs	
Minorities feel welcome							50.9		
Governance								Governance	
Information on local government decis	ions are easily accessible						60.3	Online public access to city finances has reduced corruption	
Corruption of city officials is not an iss	-					_	40.7	Online voting has increased participation	
Residents contribute to decision makir							43.3	An online platform where residents can propose ideas has improved city life	
Residents provide feedback on local g							56.1	Processing Identification Documents online has reduced waiting times	

0%

0%



Hyderabad



CC

CC in 2021

FACTOR

RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION

HDI

0.647



10,534,418

estimate)

(UN World Urbanisation Prospects 2022

Karachi India Nation Na

Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreet

Country	2018	2019	2020	2021	1 yr change
HDI	0.647	0.645	0.642	0.633	-0.009
Life expectancy at birth	69.4	69.7	70.2	67.2	-2.9
Expected years of schooling	12.3	12.2	11.9	11.9	+0.0
Mean years of schooling	6.5	6.5	6.7	6.7	+0.0
GNI per capita (PPP \$)	6,829	6,681	6,107	6,590	+482

PRIORITY AREAS

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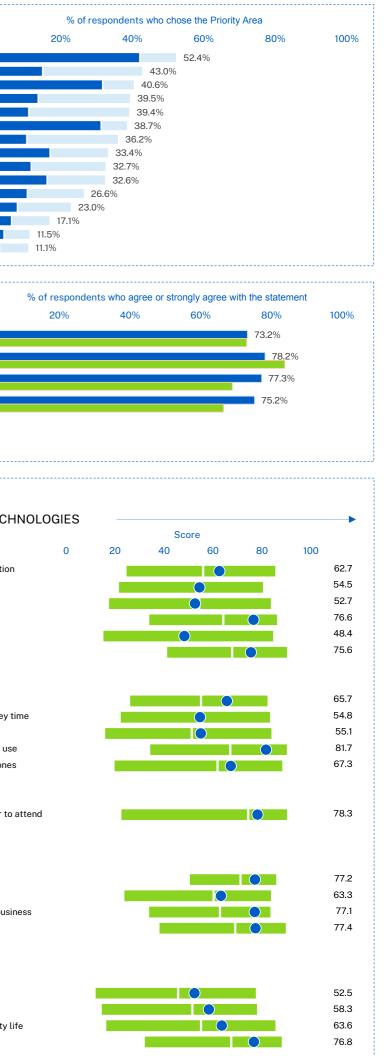
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0% air pollution basic amenities corruption health services unemployment road congestion fulfilling employment security green spaces affordable housing recycling public transport school education citizen engagement 11.5% social mobility

0%

ATTITUDES

STRU	JCTURES						•	TEC
	0	20	Sc 40	ore 60	80	100		
Health & Safety	U	20	40	00	80		Health & Safety	
Basic sanitation meets the needs of the poorest areas		_				66.3 64.8		e problems provides a speedy solution
Recycling services are satisfactory							A website or App allows residents t	
Public safety is not a problem					_	46.9	Free public wifi has improved acces	
Air pollution is not a problem						29.3	CCTV cameras has made residents	
Medical services provision is satisfactory						70.8	A website or App allows residents t	
Finding housing with rent equal to 30% or less of a monthly salary is not a \ensuremath{p}	problem			\bigcirc		53.9	Arranging medical appointments or	nline has improved access
Mobility							Mobility	
Traffic congestion is not a problem						29.8	Car-sharing Apps have reduced cor	ngestion
Public transport is satisfactory)	68.7	Apps that direct you to an available	parking space have reduced journe
							Bicycle hiring has reduced congest	ion
							Online scheduling and ticket sales I	has made public transport easier to
							The city provides information on tra	ffic congestion through mobile pho
Activities							Activities	
Green spaces are satisfactory						69.1	Online purchasing of tickets to show	ws and museums has made it easier
Cultural activities (shows, bars, and museums) are satisfactory						77.3		
Opportunities (Work & School)							Opportunities (Work & Sc	hool)
Employment finding services are readily available						68.1	Online access to job listings has ma	
Most children have access to a good school						70.9	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institutions						60.9	Online services provided by the city	has made it easier to start a new b
Businesses are creating new jobs						75.6	The current internet speed and relia	
Minorities feel welcome						73.1	·	
Governance							Governance	
Information on local government decisions are easily accessible						70.2	Online public access to city finance	s has reduced corruption
Corruption of city officials is not an issue of concern						35.9	Online voting has increased particip	
Residents contribute to decision making of local government						55.8	An online platform where residents	
			the second se					



Islamabad



not out of 118

in 2021

SMART

CITY RATING

CC

not in 2021

FACTOR

RATINGS

CC

STRUCTURES

CC

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN Data)

Turkmenstan - Misirud - Misi

ap tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

Country	2018	2019	2020	2021	1 yr change
HDI	0.545	0.546	0.543	0.544	+0.001
Life expectancy at birth	66.5	66.8	66.3	66.1	-0.2
Expected years of schooling	8.3	8.7	8.7	8.7	+0.0
Mean years of schooling	4.8	4.5	4.5	4.5	+0.0
GNI per capita (PPP \$)	4,658	4,604	4,467	4,624	+156

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation. affordable housing basic amenities unemployment corruption security health services public transport fulfilling employment school education air pollution social mobility recycling road congestion green spaces

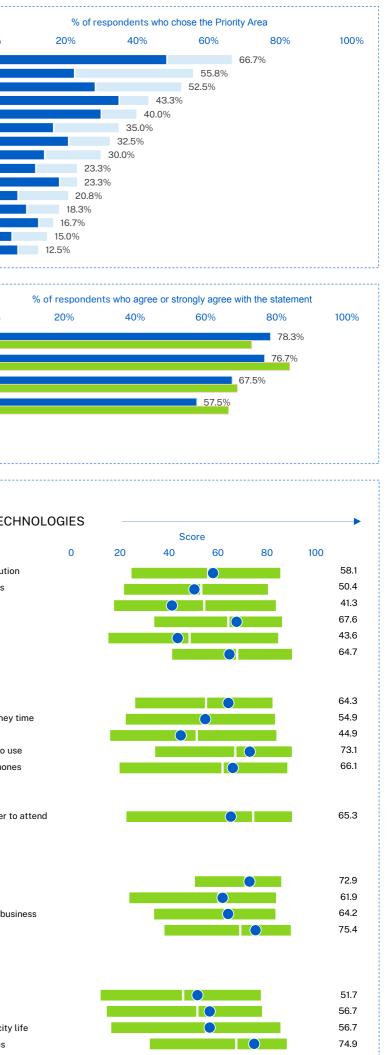
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

STRU	CTURES						•	TECHN
			Sc	ore				
Health & Safety	0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas						57.8	Online reporting of city maintenance problems provi	des a speedy solution
Recycling services are satisfactory						56.3	A website or App allows residents to easily give awa	y unwanted items
Public safety is not a problem			\bigcirc			32.2	Free public wifi has improved access to city services	;
Air pollution is not a problem			\bigcirc			37.8	CCTV cameras has made residents feel safer	
Medical services provision is satisfactory				\bigcirc		57.9	A website or App allows residents to effectively mor	nitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a preserved of the salary set of the salary s	roblem					29.2	Arranging medical appointments online has improve	d access
Mobility							Mobility	
Traffic congestion is not a problem			\bigcirc			43.3	Car-sharing Apps have reduced congestion	
Public transport is satisfactory						56.5	Apps that direct you to an available parking space ha	ave reduced journey t
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has made public t	transport easier to us
							The city provides information on traffic congestion t	hrough mobile phones
Activities							Activities	
Green spaces are satisfactory						82.1	Online purchasing of tickets to shows and museums	has made it easier to
Cultural activities (shows, bars, and museums) are satisfactory					\bigcirc	73.5		
Opportunities (Work & School)							Opportunities (Work & School)	
Employment finding services are readily available			\bigcirc			46.8	Online access to job listings has made it easier to fin	id work
Most children have access to a good school						59.4	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institutions				\bigcirc		52.8	Online services provided by the city has made it easi	er to start a new busi
Businesses are creating new jobs						56.5	The current internet speed and reliability meet conn	ectivity needs
Minorities feel welcome						65.4		
Governance							Governance	
Information on local government decisions are easily accessible				\bigcirc		57.9	Online public access to city finances has reduced co	rruption
Corruption of city officials is not an issue of concern			\bigcirc			31.1	Online voting has increased participation	
Residents contribute to decision making of local government						38.8	An online platform where residents can propose idea	as has improved city !
Residents provide feedback on local government projects						43.6	Processing Identification Documents online has redu	

0%

0%



Istanbul



SMART

CITY RATING

CC

BACKGROUND INFORMATION



(Eurostat)

Ankara

Country	2018	2019	2020	2021	1 yr change
HDI	0.807	0.820	0.833	0.838	+0.005
Life expectancy at birth	77.4	77.7	75.9	76.0	+0.2
Expected years of schooling	16.4	16.6	18.0	18.0	+0.0
Mean years of schooling	7.7	8.1	8.6	8.6	+0.0
GNI per capita (PPP \$)	24,905	27,701	28,317	31,033	+2,715

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

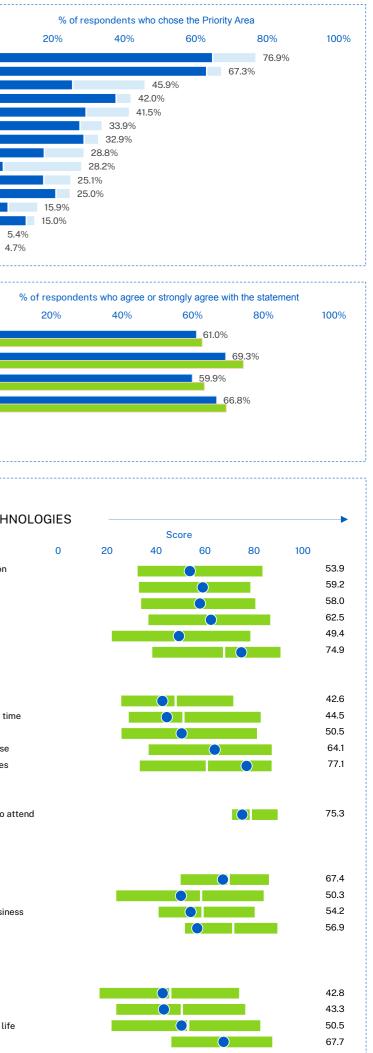
The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% affordable housing road congestion unemployment green spaces security corruption air pollution fulfilling employment basic amenities health services public transport recycling school education social mobility 5.4% citizen engagement 4.7%

0%

ATTITUDES

					LEGEN	ID: MIN	CITY MEAN GROUP MAX
CC in 2021	STRUCTURES	S –					TECHNOLO
	Health & Safaty		So	ore	00	100	
	Treattin & Salety	20	40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					65.6	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory					47.8	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem					42.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					23.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					50.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem					20.5	Arranging medical appointments online has improved access
CC	Mobility						Mobility
	Traffic congestion is not a problem					11.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					32.3	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
CC							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					23.4	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					51.8	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					50.6	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					37.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					51.7	Online services provided by the city has made it easier to start a new business
_	Businesses are creating new jobs					43.1	The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome)		46.6	
	Governance						Governance
	Information on local government decisions are easily accessible					54.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					28.0	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					37.2	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					41.5	Processing Identification Documents online has reduced waiting times



Jakarta



CC

BACKGROUND INFORMATION

City	
Population	HDI
10,562,088	0.759

(UN Data)



en Design CC BY 3.0 Map Data (

Country	2018	2019	2020	2021	1 yr change
HDI	0.707	0.718	0.709	0.705	-0.004
Life expectancy at birth	71.5	71.7	68.8	67.6	-1.2
Expected years of schooling	12.9	13.6	13.8	13.8	+0.0
Mean years of schooling	8.0	8.2	8.6	8.6	+0.0
GNI per capita (PPP \$)	11,256	11,459	11,142	11,466	+325

PRIORITY AREAS

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0% air pollution road congestion corruption basic amenities unemployment security health services green spaces fulfilling employment affordable housing public transport recycling school education 12.8% social mobility 6.4% citizen engagement 5.5%

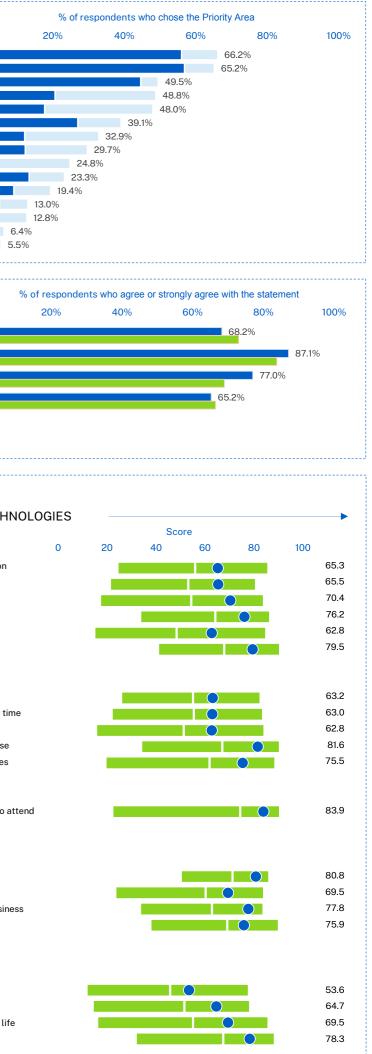
0%

ATTITUDES

LEGEND: GR

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

~ ~					LEG	GEND: M	IN 🔵	CITY MEAN GROUP MAX
CC in 2021	STRUC	CTURES						TECHNOL
				Score				
	Health & Safety	0	20	40 6	0 80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas						61.6	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory)		59.1	A website or App allows residents to easily give away unwanted items
FACIOR	Public safety is not a problem			\bigcirc			44.1	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						23.1	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				\bigcirc		67.4	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pr	oblem					50.6	Arranging medical appointments online has improved access
	Mobility							Mobility
	Traffic congestion is not a problem		\bigcirc				18.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory			(60.9	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
CC								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory		_				63.8	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory		_				72.6	
	Opportunities (Work & School)							Opportunities (Work & School)
GROUP	Employment finding services are readily available						62.9	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				\bigcirc		67.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						58.2	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs						80.8	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome						68.3	
	Governance							Governance
	Information on local government decisions are easily accessible						70.4	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						18.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government						63.2	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						63.1	Processing Identification Documents online has reduced waiting times
	·····							



Jeddah

CITY RANKING 56 Out of 141 not out of 118 in 2021

SMART

CITY RATING

SMART

BACKGROUND INFORMATION



HDI 478,074 0.871

(UN World Urbanisation Prospects 2022 estimate)



esign CC BY 3.0 Map Data ©

Country	2018	2019	2020	2021	1 yr change
HDI	0.865	0.873	0.870	0.875	+0.005
Life expectancy at birth	77.2	77.3	76.2	76.9	+0.7
Expected years of schooling	15.7	16.0	16.1	16.1	+0.0
Mean years of schooling	10.6	8.3	8.3	8.3	+0.0
GNI per capita (PPP \$)	5,072	5,307	5,601	5,745	+143

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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affordable housing road congestion unemployment green spaces air pollution basic amenities fulfilling employment public transport health services security corruption recycling school education social mobility 10.4% citizen engagement 7.8%

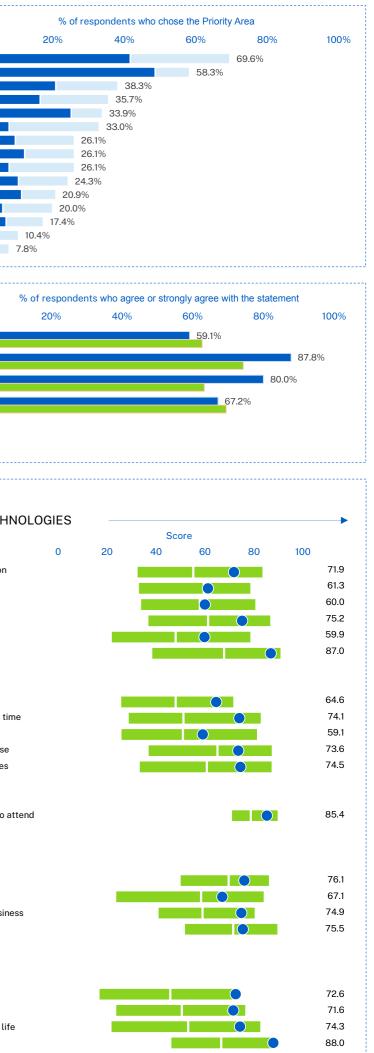
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

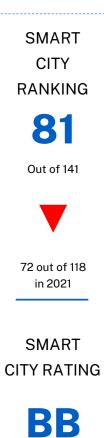
					LEGEND		ITY MEAN GROUP MAX	
not in 2021	STRUCT	URES		Score			•	TECHNO
	Health & Safety	0	20 40		80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas					76.8	Online reporting of city maintenance	problems provides a speedy solution
	Recycling services are satisfactory					70.6	A website or App allows residents to	easily give away unwanted items
FACTOR	Public safety is not a problem					51.2	Free public wifi has improved access	to city services
RATINGS	Air pollution is not a problem					31.7	CCTV cameras has made residents fe	eel safer
	Medical services provision is satisfactory				\bigcirc	73.3	A website or App allows residents to	effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a proble	em		\bigcirc		44.9	Arranging medical appointments onli	ine has improved access
B	Mobility						Mobility	
	Traffic congestion is not a problem		\bigcirc			25.4	Car-sharing Apps have reduced cong	restion
STRUCTURES	Public transport is satisfactory					60.1	Apps that direct you to an available p	parking space have reduced journey time
							Bicycle hiring has reduced congestio	n
							Online scheduling and ticket sales ha	as made public transport easier to use
B							The city provides information on traf	fic congestion through mobile phones
	Activities						Activities	
TECHNOLOGIES	Green spaces are satisfactory					66.1	Online purchasing of tickets to show	s and museums has made it easier to atte
	Cultural activities (shows, bars, and museums) are satisfactory					77.2		
	Opportunities (Work & School)						Opportunities (Work & Sch	ool)
GROUP	Employment finding services are readily available					55.1	Online access to job listings has mad	e it easier to find work
UNOUF	Most children have access to a good school					74.8	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions					68.3	Online services provided by the city h	has made it easier to start a new business
2	Businesses are creating new jobs					63.2	The current internet speed and reliab	oility meet connectivity needs
•	Minorities feel welcome					69.6		
	Governance						Governance	
	Information on local government decisions are easily accessible					77.4	Online public access to city finances	has reduced corruption
	Corruption of city officials is not an issue of concern			\bigcirc		48.6	Online voting has increased participa	tion
All ratings range	Residents contribute to decision making of local government					57.7	An online platform where residents o	an propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					63.6	Processing Identification Documents	online has reduced waiting times

0%

0%



Kiel



BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.939	0.947	0.944	0.942	-0.002
Life expectancy at birth	81.2	81.3	81.2	80.6	-0.5
Expected years of schooling	17.1	17.0	17.0	17.0	+0.0
Mean years of schooling	14.1	14.2	14.1	14.1	+0.0
GNI per capita (PPP \$)	46,946	55,314	53,078	54,534	+1,457

PRIORITY AREAS

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affordable housing road congestion security air pollution unemployment school education public transport citizen engagement social mobility green spaces recycling health services fulfilling employment basic amenities corruption

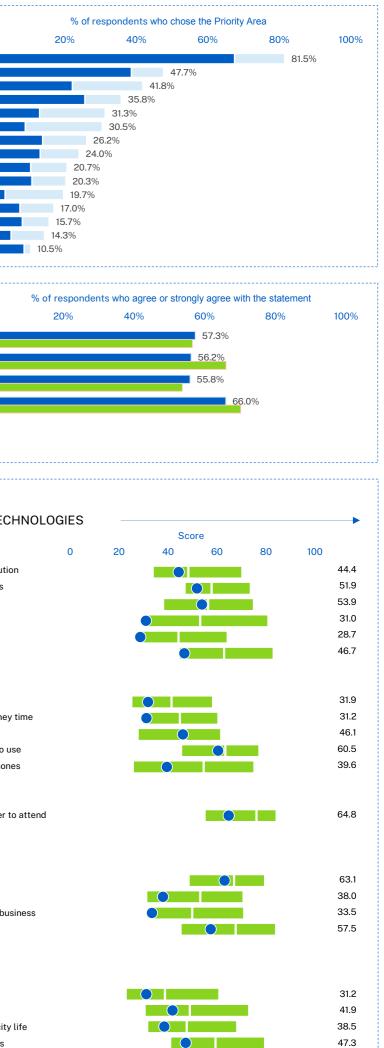
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

BB			TY MEAN GROUP MAX
B in 2021	STRUCTURES		TECHNOL
	Score		
	Health & Safety 0 20 40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	70.0	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	74.5	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	56.0	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	47.6	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	78.1	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	24.1	Arranging medical appointments online has improved access
BBB	Mobility		Mobility
	Traffic congestion is not a problem	37.1	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	64.4	Apps that direct you to an available parking space have reduced journey time
			Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
CCC			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	66.1	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	69.6	
	Opportunities (Work & School)		Opportunities (Work & School)
	Employment finding services are readily available	61.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	67.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	58.4	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	58.3	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome	58.0	
	Governance		Governance
	Information on local government decisions are easily accessible	57.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	62.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	48.8	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	55.1	Processing Identification Documents online has reduced waiting times

0%

0%



Krakow



CITY RATING

BACKGROUND INFORMATION

City	
Population	HDI
3,372,763	0.888

(Eurostat)



map	11103	<i>Uy</i>	Junion	Design	00.0	1 0.0	map	Data	0	openotice

						1
Country	2018	2019	2020	2021	1 yr change	
HDI	0.872	0.880	0.876	0.876	+0.000	
Life expectancy at birth	78.5	78.7	76.9	76.5	-0.5	ŀ
Expected years of schooling	16.4	16.3	16.0	16.0	+0.0	l
Mean years of schooling	12.3	12.5	13.2	13.2	+0.0	ł.
GNI per capita (PPP \$)	27,626	31,623	31,164	33,034	+1,869	ł

PRIORITY AREAS

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air pollution affordable housing road congestion security green spaces fulfilling employment health services basic amenities public transport recycling corruption school education unemployment social mobility 13.3% citizen engagement

0%

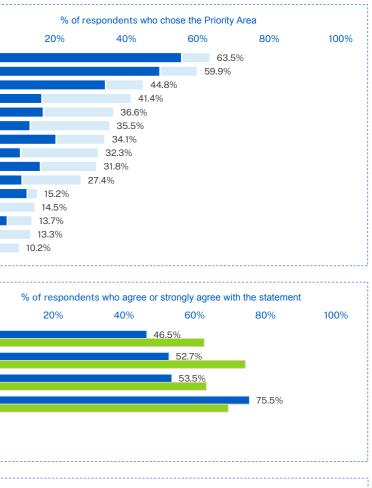
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CCC	L		
		LEGEND: MIN OT	Y MEAN GROUP MAX
CCC in 2021	STRUCTURES		TECHNOLO
	Score 0 20 40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	63.0	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	63.6	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	62.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	22.8	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory	53.8	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	26.9	Arranging medical appointments online has improved access
B	Mobility		Mobility
_	Traffic congestion is not a problem	29.8	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	59.1	Apps that direct you to an available parking space have reduced journey time
			Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
CCC			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	63.5	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	80.1	
	Opportunities (Work & School)		Opportunities (Work & School)
GROUP	Employment finding services are readily available	62.7	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	70.1	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	70.0	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	64.5	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome	60.6	
	Governance		Governance
	Information on local government decisions are easily accessible	64.7	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	42.1	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	53.0	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	63.6	Processing Identification Documents online has reduced waiting times



LOGIES Score 20 100 0 40 60 80 51.2 57.3 60.2 57.4 \bigcirc 70.7 \bigcirc 64.2 \bigcirc 43.6 51.0 55.6 72.3 46.7 78.8 nd 75.6 53.2 58.2 68.6 \bigcirc





Kuala Lumpur



BACKGROUND INFORMATION

City	
Population	HDI
1,853,918	0.858

(UN Data)

SMART CITY RATING

CCC

CCC in 2021

FACTOR RATINGS

B

CCC TECHNOLOGIES

GROUP



All ratings range from AAA to D

The second secon

Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStree

Jakarta

Country	2018	2019	2020	2021	1 yr change
HDI	0.804	0.810	0.806	0.803	-0.003
Life expectancy at birth	76.0	76.2	75.9	74.9	-1.1
Expected years of schooling	13.5	13.7	13.3	13.3	+0.0
Mean years of schooling	10.2	10.4	10.7	10.7	+0.0
GNI per capita (PPP \$)	27,227	27,534	25,940	26,658	+717

PRIORITY AREAS

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0% affordable housing road congestion corruption unemployment security air pollution health services public transport fulfilling employment basic amenities recycling green spaces school education social mobility 11.9% citizen engagement 9.4%

0%

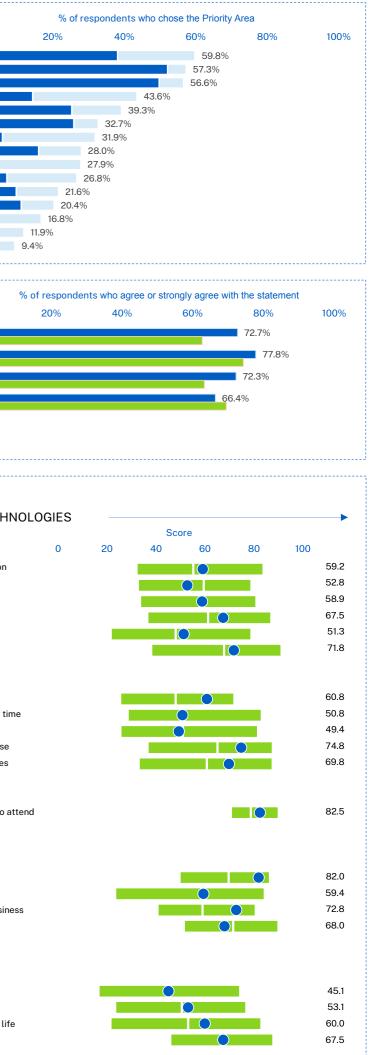
ATTITUDES

LEGEND:

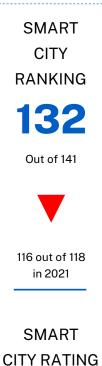
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

STRUCTURE	S						◀
			Sco	ore			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas)	67.2	Online reporting of city maintenance problems provides a speedy so
Recycling services are satisfactory						56.1	A website or App allows residents to easily give away unwanted iter
Public safety is not a problem			\bigcirc			45.8	Free public wifi has improved access to city services
Air pollution is not a problem		(33.7	CCTV cameras has made residents feel safer
Medical services provision is satisfactory					\bigcirc	75.1	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a problem						43.9	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						21.0	Car-sharing Apps have reduced congestion
Public transport is satisfactory						57.4	Apps that direct you to an available parking space have reduced jou
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier
							The city provides information on traffic congestion through mobile p
Activities							Activities
Green spaces are satisfactory						55.8	Online purchasing of tickets to shows and museums has made it eas
Cultural activities (shows, bars, and museums) are satisfactory				(69.4	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available)	67.5	Online access to job listings has made it easier to find work
Most children have access to a good school						72.7	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						69.0	Online services provided by the city has made it easier to start a new
Businesses are creating new jobs		I				73.3	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						62.4	
Governance							Governance
Information on local government decisions are easily accessible				\bigcirc		63.1	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern		\bigcirc				22.1	Online voting has increased participation
Residents contribute to decision making of local government				\bigcirc		53.1	An online platform where residents can propose ideas has improved
Residents provide feedback on local government projects		_				62.0	Processing Identification Documents online has reduced waiting tim



Lagos



D

D in 2021

FACTOR

RATINGS

D

STRUCTURES

С

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



o tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

Country	2018	2019	2020	2021	1 yr change
HDI	0.534	0.539	0.535	0.535	+0.000
Life expectancy at birth	54.3	54.7	52.9	52.7	-0.2
Expected years of schooling	9.7	10.0	10.1	10.1	+0.0
Mean years of schooling	6.5	6.7	7.2	7.2	+0.0
GNI per capita (PPP \$)	5,086	4,910	4,740	4,790	+51

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

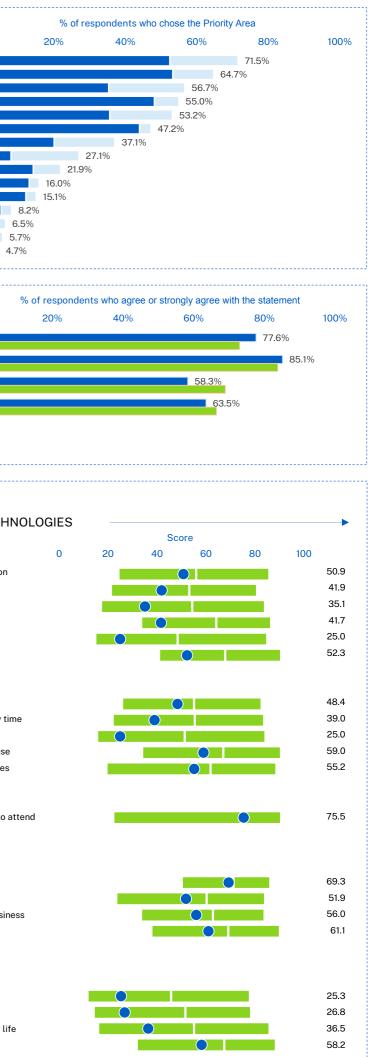
The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% security affordable housing unemployment corruption health services road congestion basic amenities fulfilling employment school education public transport air pollution citizen engagement recycling 6.5% green spaces 5.7% social mobility 4.7%

0%

ATTITUDES

				L			
STRUCTUF	RES	Sco	ore			TECH	HNOLO
Health & Safety	0 20		60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas					47.2	Online reporting of city maintenance problems provides a speedy solution	n
Recycling services are satisfactory		Ŏ			46.8	A website or App allows residents to easily give away unwanted items	
Public safety is not a problem					33.4	Free public wifi has improved access to city services	
Air pollution is not a problem					21.7	CCTV cameras has made residents feel safer	
Medical services provision is satisfactory					41.5	A website or App allows residents to effectively monitor air pollution	
Finding housing with rent equal to 30% or less of a monthly salary is not a problem	ו 🚺				21.3	Arranging medical appointments online has improved access	
Mobility						Mobility	
Traffic congestion is not a problem					10.6	Car-sharing Apps have reduced congestion	
Public transport is satisfactory		\bigcirc			35.5	Apps that direct you to an available parking space have reduced journey t	time
						Bicycle hiring has reduced congestion	
						Online scheduling and ticket sales has made public transport easier to use	e
						The city provides information on traffic congestion through mobile phones	:S
Activities						Activities	
Green spaces are satisfactory					45.4	Online purchasing of tickets to shows and museums has made it easier to	attend
Cultural activities (shows, bars, and museums) are satisfactory)	71.7		
Opportunities (Work & School)						Opportunities (Work & School)	
Employment finding services are readily available					44.0	Online access to job listings has made it easier to find work	
Most children have access to a good school		\bigcirc			40.0	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institutions		\bigcirc			37.1	Online services provided by the city has made it easier to start a new busi	iness
Businesses are creating new jobs			\bigcirc		60.9	The current internet speed and reliability meet connectivity needs	
Minorities feel welcome	I	\bigcirc			46.5		
Governance						Governance	
Information on local government decisions are easily accessible					40.4	Online public access to city finances has reduced corruption	
Corruption of city officials is not an issue of concern					15.8	Online voting has increased participation	
Residents contribute to decision making of local government					23.8	An online platform where residents can propose ideas has improved city li	life
Residents provide feedback on local government projects					36.6	Processing Identification Documents online has reduced waiting times	



Lausanne



CITY RATING

ΔΔ

BACKGROUND INFORMATION



(Eurostat)

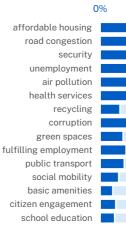


Country	2018	2019	2020	2021	1 yr change
HDI	0.946	0.955	0.956	0.962	+0.006
Life expectancy at birth	83.6	83.8	83.1	84.0	+0.9
Expected years of schooling	16.2	16.3	16.5	16.5	+0.0
Mean years of schooling	13.4	13.4	13.9	13.9	+0.0
GNI per capita (PPP \$)	59,375	69,394	65,011	66,933	+1,922

PRIORITY AREAS

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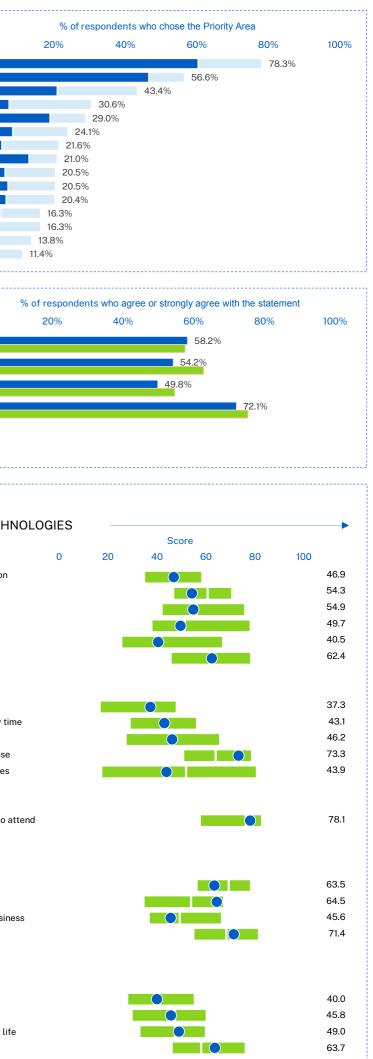
the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



0%

ATTITUDES

AA					LEGEN	ND: MIN OC	ITY MEAN GROUP MAX
AAA in 2021	STRUCT	URES				•	TECHNOL
	Health & Safety	0 2	20 4	Score IO 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					71.7	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory					75.4	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem)	64.0	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					53.0	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				\bigcirc	79.1	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a probl	em				31.6	Arranging medical appointments online has improved access
AA	Mobility						Mobility
	Traffic congestion is not a problem					31.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				\bigcirc	68.7	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
Δ							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					79.4	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					85.2	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					73.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					81.5	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					72.7	Online services provided by the city has made it easier to start a new business
1	Businesses are creating new jobs					61.4	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome					62.3	
	Governance						Governance
	Information on local government decisions are easily accessible					66.4	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					59.4	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					60.2	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					62.7	Processing Identification Documents online has reduced waiting times



Leeds



SMART

CITY RATING

BACKGROUND INFORMATION

City	
Population	HDI
2,324,560	0.908

(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.932	0.924	0.929	+0.005
Life expectancy at birth	81.2	81.3	80.4	80.7	+0.3
Expected years of schooling	17.4	17.5	17.3	17.3	+0.0
Mean years of schooling	13.0	13.2	13.4	13.4	+0.0
GNI per capita (PPP \$)	39,507	46,071	42,375	45,225	+2,850

PRIORITY AREAS

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0% affordable housing road congestion health services unemployment air pollution public transport security fulfilling employment green spaces recycling school education social mobility citizen engagement corruption basic amenities 9.1%

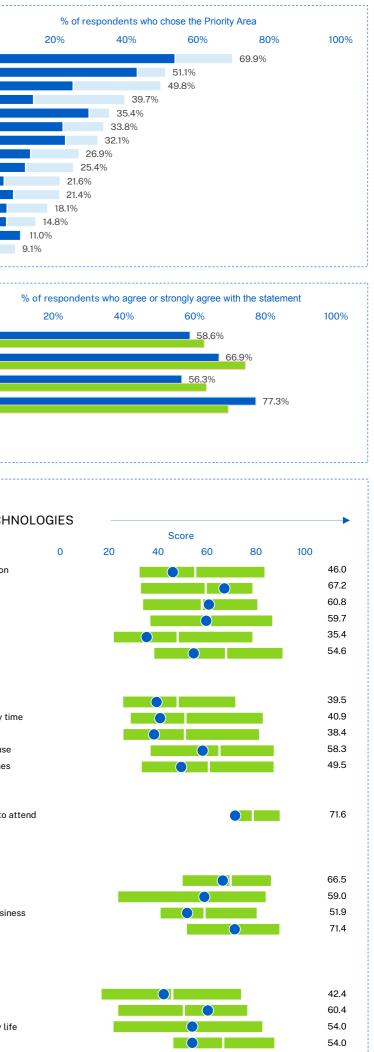
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CCC	······				;		
				LEGE	ND: MIN	MTY MEAN GROUP MAX	
CCC in 2021	STR	UCTURES -	Score			•	TECHNOL
	Health & Safety	0 20		0 80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas				62.4	Online reporting of city maintenance problems provides a spe	edy solution
	Recycling services are satisfactory				67.2	A website or App allows residents to easily give away unwant	ed items
FACTOR	Public safety is not a problem	-			44.3	Free public wifi has improved access to city services	
RATINGS	Air pollution is not a problem				35.8	CCTV cameras has made residents feel safer	
	Medical services provision is satisfactory				59.1	A website or App allows residents to effectively monitor air p	ollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	a problem			32.1	Arranging medical appointments online has improved access	
CCC	Mobility					Mobility	
	Traffic congestion is not a problem				26.0	Car-sharing Apps have reduced congestion	
STRUCTURES	Public transport is satisfactory				48.2	Apps that direct you to an available parking space have reduc	ed journey time
						Bicycle hiring has reduced congestion	
						Online scheduling and ticket sales has made public transport	easier to use
CC						The city provides information on traffic congestion through m	obile phones
	Activities					Activities	
TECHNOLOGIES	Green spaces are satisfactory				60.2	Online purchasing of tickets to shows and museums has made	e it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				72.1		
	Opportunities (Work & School)					Opportunities (Work & School)	
GROUP	Employment finding services are readily available				66.4	Online access to job listings has made it easier to find work	
GROUP	Most children have access to a good school				62.7	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions				62.7	Online services provided by the city has made it easier to star	t a new business
2	Businesses are creating new jobs				63.0	The current internet speed and reliability meet connectivity n	eeds
•	Minorities feel welcome				61.6		
	Governance					Governance	
	Information on local government decisions are easily accessible				57.2	Online public access to city finances has reduced corruption	
	Corruption of city officials is not an issue of concern				53.2	Online voting has increased participation	
All ratings range	Residents contribute to decision making of local government				47.9	An online platform where residents can propose ideas has imp	proved city life
from AAA to D	Residents provide feedback on local government projects				53.5	Processing Identification Documents online has reduced wait	ing times



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BACKGROUND INFORMATION



(Eurostat)

Slovakia

2018	2019	2020	2021	1 yr change
0.891	0.901	0.898	0.903	+0.005
82.5	82.7	82.2	82.5	+0.3
15.5	15.6	15.8	15.8	+0.0
11.4	11.5	11.6	11.6	+0.0
40,511	47,173	43,048	45,937	+2,889
	0.891 82.5 15.5 11.4	0.891 0.901 82.5 82.7 15.5 15.6 11.4 11.5	0.891 0.901 0.898 82.5 82.7 82.2 15.5 15.6 15.8 11.4 11.5 11.6	0.8910.9010.8980.90382.582.782.282.515.515.615.815.811.411.511.611.6

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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affordable housing air pollution security road congestion unemployment health services recycling green spaces fulfilling employment public transport basic amenities corruption school education citizen engagement

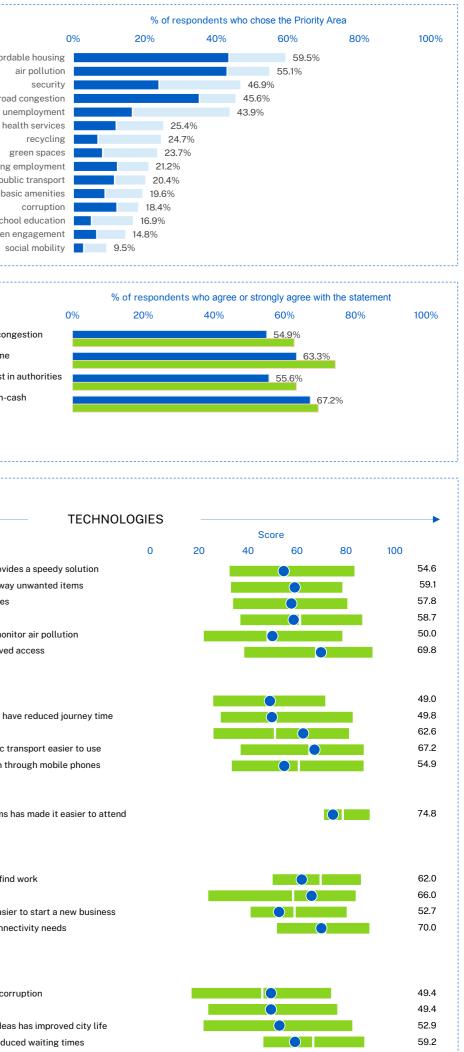
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

CCC	· · · · · · · · · · · · · · · · · · ·				;	·	
					LEGEND:	MIN	CITY MEAN GROUP MAX
CC in 2021	STRI	JCTURES					TECHNOL
	Health & Safety	0 2	Sc 20 40	ore 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					59.0	-
	Recycling services are satisfactory					68.1	
FACTOR	Public safety is not a problem	, i i i i i i i i i i i i i i i i i i i	_			53.4	
RATINGS	Air pollution is not a problem					30.2	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory					62.9	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	problem				34.5	Arranging medical appointments online has improved access
CCC	Mobility						Mobility
	Traffic congestion is not a problem	_				31.6	-
STRUCTURES	Public transport is satisfactory					62.3	
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
CCC							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					71.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				\bigcirc	75.8	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					63.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					67.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					65.6	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					51.7	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome					52.2	
	Governance						Governance
	Information on local government decisions are easily accessible					56.6	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					45.9	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					50.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects			igodol		51.4	Processing Identification Documents online has reduced waiting times

0%

0%



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BACKGROUND INFORMATION

City	
Population	HDI
9,562,280	0.820

(UN Data)

-Manau Per 9 Bolivia . Santa Cruz

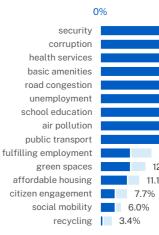
Map tiles by n CC BY 3.0 Map

Country	2018	2019	2020	2021	1 yr change
HDI	0.776	0.780	0.762	0.762	+0.000
Life expectancy at birth	76.0	76.2	73.7	72.4	-1.3
Expected years of schooling	15.2	15.4	15.4	15.4	+0.0
Mean years of schooling	9.8	9.9	9.9	9.9	+0.0
GNI per capita (PPP \$)	12,143	12,304	10,917	12,246	+1,329

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0%

ATTITUDES

$\mathbf{\vee}$					LEGEN	D: MIN	CITY MEAN GROUP MAX
not in 2021	STRU	CTURES					TECHNOL
				Score			
	Health & Safety	0	20 40) 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					32.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					37.7	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					19.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					19.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					25.1	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pr	roblem				34.6	Arranging medical appointments online has improved access
C	Mobility						Mobility
	Traffic congestion is not a problem					10.7	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		\bigcirc			19.7	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
С							The city provides information on traffic congestion through mobile phones
•	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					54.8	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					59.8	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					52.8	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	(18.4	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					32.9	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					43.7	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome					26.9	
	Governance						Governance
	Information on local government decisions are easily accessible					30.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					11.3	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					21.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					29.3	Processing Identification Documents online has reduced waiting times



Lisbon



BACKGROUND INFORMATION



(Eurostat)

SMART **CITY RATING**

> CC CC in 2021

FACTOR RATINGS CC STRUCTURES

CC TECHNOLOGIES

GROUP



All ratings range from AAA to D



Country	2018	2019	2020	2021	1 yr change
HDI	0.850	0.864	0.863	0.866	+0.003
Life expectancy at birth	81.9	82.1	81.1	81.0	-0.0
Expected years of schooling	16.3	16.5	16.9	16.9	+0.0
Mean years of schooling	9.2	9.3	9.6	9.6	+0.0
GNI per capita (PPP \$)	27,935	33,967	31,637	33,155	+1,518

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

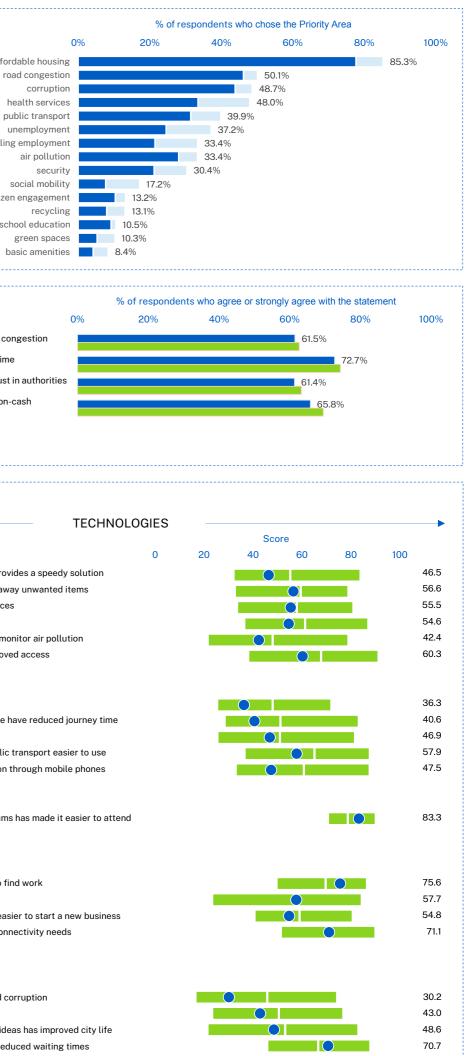
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0% affordable housing road congestion corruption health services public transport unemployment fulfilling employment air pollution security social mobility citizen engagement recycling school education green spaces 10.3%

0%

ATTITUDES

	TRUCTURES						TECH
5	TRUCTURES		Se	ore			TECH
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas	· · ·	20				62.3	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory						61.9	A website or App allows residents to easily give away unwanted items
Public safety is not a problem						51.6	Free public wifi has improved access to city services
Air pollution is not a problem						32.8	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						50.1	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is n	ot a problem					12.0	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						17.7	Car-sharing Apps have reduced congestion
Public transport is satisfactory						37.8	Apps that direct you to an available parking space have reduced journey
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to us
							The city provides information on traffic congestion through mobile phone
Activities							Activities
Green spaces are satisfactory						65.1	Online purchasing of tickets to shows and museums has made it easier to
Cultural activities (shows, bars, and museums) are satisfactory						78.5	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						42.2	Online access to job listings has made it easier to find work
Most children have access to a good school						52.9	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						49.0	Online services provided by the city has made it easier to start a new bus
Businesses are creating new jobs						41.1	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						51.7	
Governance							Governance
Information on local government decisions are easily accessible						49.0	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						19.3	Online voting has increased participation
Residents contribute to decision making of local government						31.7	An online platform where residents can propose ideas has improved city
Residents provide feedback on local government projects						33.9	Processing Identification Documents online has reduced waiting times



Ljubljana



SMART

CITY RATING

BACKGROUND INFORMATION

City	
Population	HDI
555,948	0.953

(Eurostat)

Country	2018	2019	2020	2021	1 yr change
HDI	0.917	0.921	0.913	0.918	+0.005
Life expectancy at birth	81.4	81.6	80.4	80.7	+0.3
Expected years of schooling	17.6	17.7	17.7	17.7	+0.0
Mean years of schooling	12.8	12.8	12.8	12.8	+0.0
GNI per capita (PPP \$)	37,411	38,440	36,993	39,746	+2,753

PRIORITY AREAS

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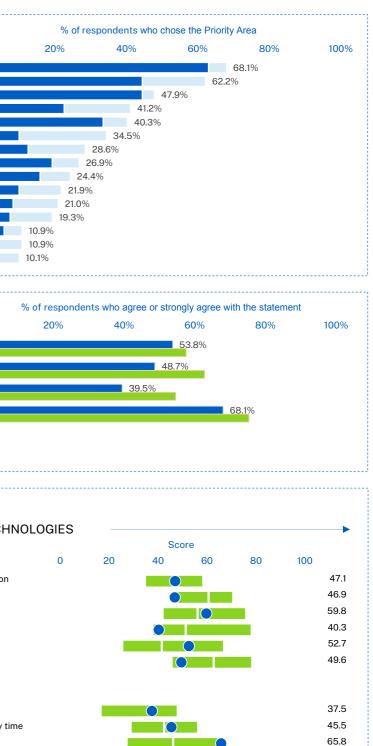
0% affordable housing health services road congestion public transport corruption basic amenities unemployment air pollution fulfilling employment recycling security green spaces citizen engagement school education 10.9% social mobility

0%

ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

BBB		i i	
DDD		LEGEND: MIN CIT	Y MEAN GROUP MAX
not in 2021	STRUCTURES	>	TECHNOLO
	Score		
	Health & Safety 0 20 40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	71.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	68.5	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	66.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	40.2	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	38.8	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	15.5	Arranging medical appointments online has improved access
BB	Mobility		Mobility
	Traffic congestion is not a problem	19.7	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	49.4	Apps that direct you to an available parking space have reduced journey time
			Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
BBB			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	71.7	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	71.7	
	Opportunities (Work & School)		Opportunities (Work & School)
	Employment finding services are readily available	53.4	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	69.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	59.7	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs	49.7	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome	56.6	
	Governance		Governance
	Information on local government decisions are easily accessible	51.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	31.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	35.4	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	40.6	Processing Identification Documents online has reduced waiting times







67.6
49.6
50.8
70.2

 \bigcirc

67.4

44.5

29.8
36.3
43.0
47.5

London



CITY RATING

Α

BACKGROUND INFORMATION



(Eurostat)

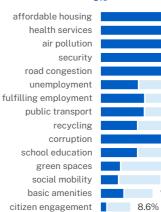


2018	2019	2020	2021	1 yr change
0.920	0.932	0.924	0.929	+0.005
81.2	81.3	80.4	80.7	+0.3
17.4	17.5	17.3	17.3	+0.0
13.0	13.2	13.4	13.4	+0.0
39,507	46,071	42,375	45,225	+2,850
	0.920 81.2 17.4 13.0	0.920 0.932 81.2 81.3 17.4 17.5 13.0 13.2	0.9200.9320.92481.281.380.417.417.517.313.013.213.4	0.9200.9320.9240.92981.281.380.480.717.417.517.317.313.013.213.413.4

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city. The left-hand, dark blue section of each bar shows

the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



ATTITUDES

LEGEND:

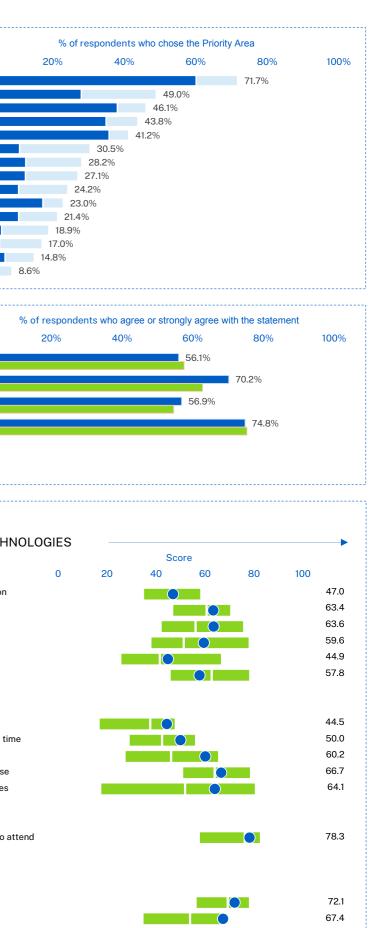
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

A			GROUP MAX
A in 2021	STRUCTURES	→ →	TECHNOLO
		e 60 80 100 Heal	
	Treating Survey	Ticut	lth & Safety
	Basic sanitation meets the needs of the poorest areas Recycling services are satisfactory		e reporting of city maintenance problems provides a speedy solution osite or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem		public wifi has improved access to city services
	Air pollution is not a problem		/ cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory		osite or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem		ging medical appointments online has improved access
		20.5 Allalış	ging medical appointments online has improved access
BBB	Mobility	Mob	bility
	Traffic congestion is not a problem	24.5 Car-sh	haring Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	61.2 Apps t	that direct you to an available parking space have reduced journey time
		Bicycl	le hiring has reduced congestion
		Online	e scheduling and ticket sales has made public transport easier to use
ΔΔ		The cit	ity provides information on traffic congestion through mobile phones
	Activities	Acti	vities
TECHNOLOGIES	Green spaces are satisfactory		e purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	77.6	
	Opportunities (Work & School)	adO	oortunities (Work & School)
	Employment finding services are readily available	65.3 Online	e access to job listings has made it easier to find work
GROUP	Most children have access to a good school	62.8 IT skill	lls are taught well in schools
	Lifelong learning opportunities are provided by local institutions	62.2 Online	e services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs	61.7 The cu	urrent internet speed and reliability meet connectivity needs
	Minorities feel welcome	60.1	
	Governance	Gov	ernance
	Information on local government decisions are easily accessible		e public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	40.1 Online	e voting has increased participation
All ratings range	Residents contribute to decision making of local government	44.6 An onl	line platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	52.8 Proces	essing Identification Documents online has reduced waiting times

0%

0%





45.6
56.9
52.0
62.8

Los Angeles



CITY RATING

BB

BB in 2021

FACTOR

RATINGS

BB

STRUCTURES

BBB

TECHNOLOGIES

GROUP

2

All ratings range

from AAA to D

BACKGROUND INFORMATION

Population	HDI
3,898,747	0.931

(UN Data)

City

 Image: Constraint of the second se

Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.926	0.920	0.921	+0.001
Life expectancy at birth	78.9	78.9	77.4	77.2	-0.2
Expected years of schooling	16.3	16.3	16.3	16.3	+0.0
Mean years of schooling	13.4	13.4	13.7	13.7	+0.0
GNI per capita (PPP \$)	56,140	63,826	61,462	64,765	+3,304

PRIORITY AREAS

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0% affordable housing security road congestion health services air pollution school education corruption unemployment fulfilling employment basic amenities public transport green spaces recycling social mobility citizen engagement 8.7%

0%

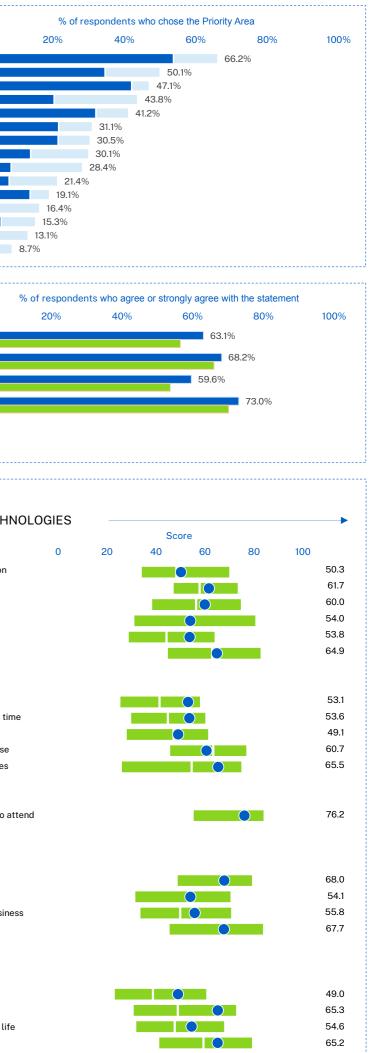
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

				LEGEN	D: MIN	CITY MEAN GROUP MAX	
STRUCTURES					•	•	TECHN
		So	core				
Health & Safety 0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas					54.2	Online reporting of city mainten	ance problems provides a speedy solution
Recycling services are satisfactory			\bigcirc		64.3	A website or App allows residen	ts to easily give away unwanted items
Public safety is not a problem		\bigcirc			36.5	Free public wifi has improved ac	cess to city services
Air pollution is not a problem					32.7	CCTV cameras has made resider	nts feel safer
Medical services provision is satisfactory					56.2	A website or App allows residen	ts to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a problem					32.8	Arranging medical appointments	s online has improved access
Mobility						Mobility	
Traffic congestion is not a problem					25.1	Car-sharing Apps have reduced	congestion
Public transport is satisfactory					47.7	Apps that direct you to an availa	ble parking space have reduced journey time
						Bicycle hiring has reduced cong	estion
						Online scheduling and ticket sal	es has made public transport easier to use
						The city provides information on	traffic congestion through mobile phones
Activities						Activities	
Green spaces are satisfactory					60.7	Online purchasing of tickets to s	hows and museums has made it easier to atte
Cultural activities (shows, bars, and museums) are satisfactory					75.4		
Opportunities (Work & School)						Opportunities (Work & S	School)
Employment finding services are readily available			\bigcirc		63.0	Online access to job listings has	
Most children have access to a good school					52.9	IT skills are taught well in schoo	ls
Lifelong learning opportunities are provided by local institutions					58.2	Online services provided by the	city has made it easier to start a new business
Businesses are creating new jobs					64.7		eliability meet connectivity needs
Minorities feel welcome					58.3		
Governance						Governance	
Information on local government decisions are easily accessible					65.8	Online public access to city final	nces has reduced corruption
Corruption of city officials is not an issue of concern					35.5	Online voting has increased part	
Residents contribute to decision making of local government				-	56.5		nts can propose ideas has improved city life
Residents provide feedback on local government projects							



Luxembourg



SMART

CITY RATING

BACKGROUND INFORMATION

City	
Population	HDI
634,730	0.930

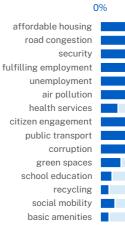
(Eurostat)

Country	2018	2019	2020	2021	1 yr change
HDI	0.922	0.927	0.924	0.930	+0.006
Life expectancy at birth	81.8	82.1	81.4	82.6	+1.2
Expected years of schooling	14.3	14.4	14.4	14.4	+0.0
Mean years of schooling	12.8	13.0	13.0	13.0	+0.0
GNI per capita (PPP \$)	81,399	76,019	80,286	84,649	+4,364

PRIORITY AREAS

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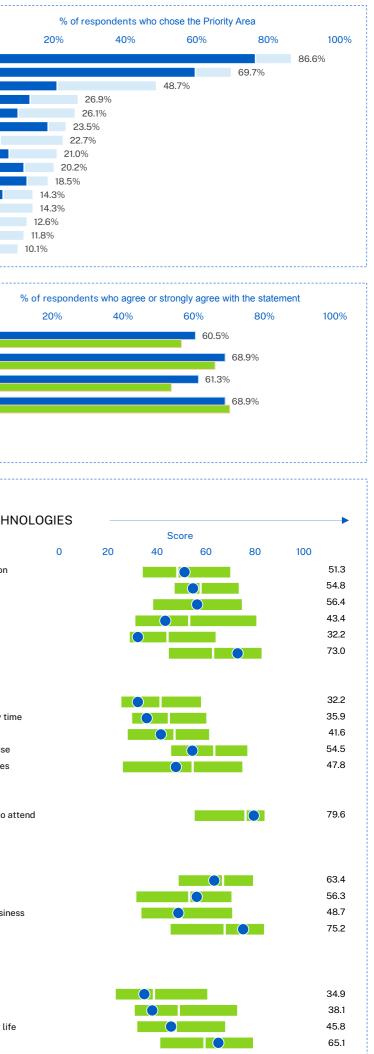
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

BB	·					L	
DD					LEGEN	D: MIN	CITY MEAN GROUP MAX
not in 2021	STRL	JCTURES					TECHNOL
	Lingth & Cofety	0	20 40	Score 60	80	100	Lingth & Coloty
	Health & Safety	Ū	20 40	00	00	78.4	Health & Safety
	Basic sanitation meets the needs of the poorest areas					78.4 84.3	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory					64.1	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem						Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					51.8	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					78.2	A website or App allows residents to effectively monitor air pollution
DDD	Finding housing with rent equal to 30% or less of a monthly salary is not a p	oroblem				16.2	Arranging medical appointments online has improved access
BBB	Mobility						Mobility
	Traffic congestion is not a problem	_	\bigcirc			26.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					70.3	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
B							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					81.1	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					77.9	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					67.9	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					80.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions		_			71.6	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					60.1	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome					64.7	
	Governance						Governance
	Information on local government decisions are easily accessible					70.4	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					54.3	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					44.8	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					48.6	Processing Identification Documents online has reduced waiting times



Lyon



CITY RATING

BB

BACKGROUND INFORMATION



(Eurostat)

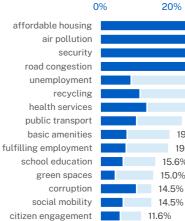


						ł.
Country	2018	2019	2020	2021	1 yr change	l
HDI	0.891	0.901	0.898	0.903	+0.005	
Life expectancy at birth	82.5	82.7	82.2	82.5	+0.3	ŀ
Expected years of schooling	15.5	15.6	15.8	15.8	+0.0	l
Mean years of schooling	11.4	11.5	11.6	11.6	+0.0	ł.
GNI per capita (PPP \$)	40,511	47,173	43,048	45,937	+2,889	ł
						÷ .

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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ATTITUDES

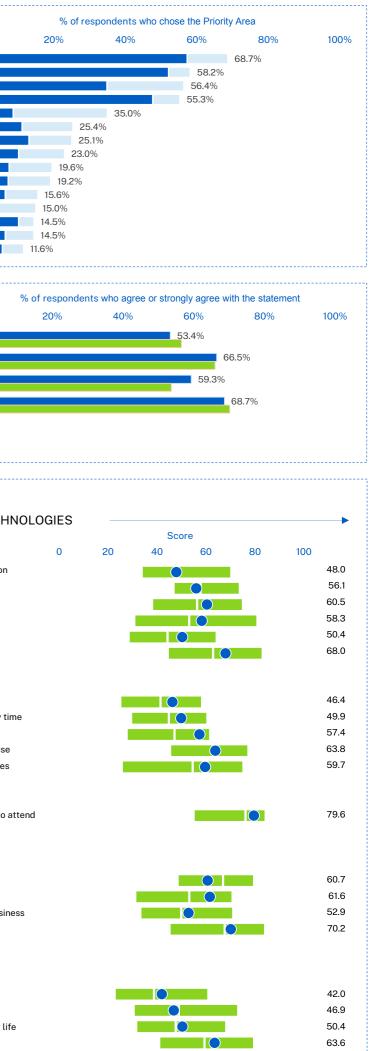
LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

DD						LEGEN	ID: MIN	CITY MEAN GROUP MAX
CCC in 2021	STRUC	CTURES					•	TECHNOLO
		0	20	Score	60	80	100	
	Health & Safety	0	20	40	00	80	58.9	Health & Safety
	Basic sanitation meets the needs of the poorest areas						58.9 63.7	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory				\bigcirc		45.0	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem						45.0	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						60.2	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory						26.2	A website or App allows residents to effectively monitor air pollution
DD	Finding housing with rent equal to 30% or less of a monthly salary is not a pr	oblem					20.2	Arranging medical appointments online has improved access
BB	Mobility							Mobility
	Traffic congestion is not a problem		\bigcirc				23.3	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory						65.4	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
BB								The city provides information on traffic congestion through mobile phones
	Activities							Activities
ECHNOLOGIES	Green spaces are satisfactory					\bigcirc	78.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					\bigcirc	82.1	
	Opportunities (Work & School)							Opportunities (Work & School)
GROUP	Employment finding services are readily available						69.2	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school						67.9	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				\bigcirc		61.6	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs						61.4	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome						53.0	
	Governance							Governance
	Information on local government decisions are easily accessible			(56.1	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						46.0	Online voting has increased participation
l ratings range	Residents contribute to decision making of local government						45.8	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects			\bigcirc			50.6	Processing Identification Documents online has reduced waiting times

0%



Madrid



BACKGROUND INFORMATION

City	
Population	HDI
6,755,828	0.940

(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.893	0.904	0.899	0.905	+0.006
Life expectancy at birth	83.4	83.6	82.3	83.0	+0.7
Expected years of schooling	17.9	17.6	17.9	17.9	+0.0
Mean years of schooling	9.8	10.3	10.6	10.6	+0.0
GNI per capita (PPP \$)	35,041	40,975	36,516	38,354	+1,838

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

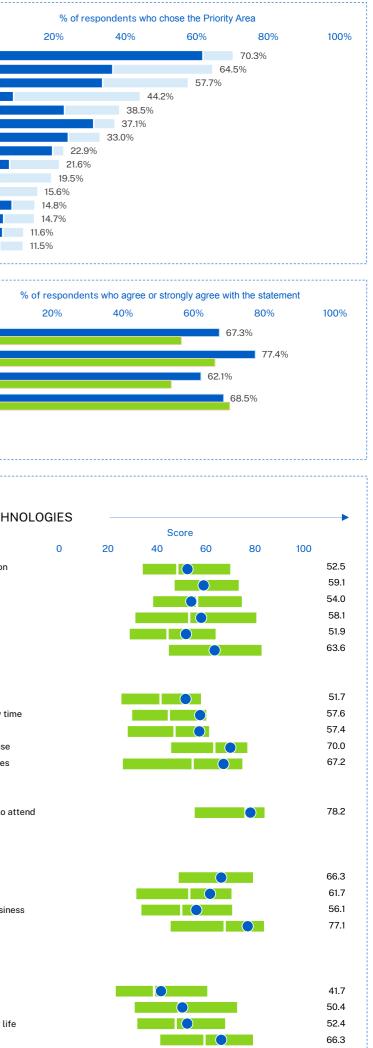
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0% affordable housing fulfilling employment health services unemployment security air pollution corruption road congestion school education basic amenities green spaces public transport recycling citizen engagement 11.6% social mobility

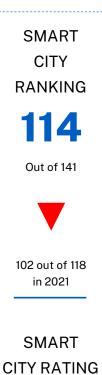
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ATTITUDES

BB	L		 	L	
DD			LEGEND:	MIN	CITY MEAN GROUP MAX
BB in 2021	STRUCTURES		 	•	TECHNOLO
	Health & Safety 0	Scor 20 40	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	20 10	00	63.9	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory			64.1	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem			53.9	Free public wifi has improved access to city services
	Air pollution is not a problem			29.6	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory			50.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem			20.9	Arranging medical appointments online has improved access
BB	Mobility				Mobility
	Traffic congestion is not a problem			23.7	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		_	62.5	Apps that direct you to an available parking space have reduced journey time
UNUUTUNEU				02.0	Bicycle hiring has reduced congestion
					Online scheduling and ticket sales has made public transport easier to use
BBB					The city provides information on traffic congestion through mobile phones
DDD	Activities				Activities
TECHNOLOGIES	Green spaces are satisfactory	_	_	74.0	Online purchasing of tickets to shows and museums has made it easier to attend
TEORINOEOGIES	Cultural activities (shows, bars, and museums) are satisfactory			80.1	
	Opportunities (Work & School)				Opportunities (Work & School)
	Employment finding services are readily available			74.6	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school			61.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions			67.5	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs			49.0	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome			54.6	
	Governance				Governance
	Information on local government decisions are easily accessible			56.1	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		•	33.0	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government			39.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects			44.2	Processing Identification Documents online has reduced waiting times



Makassar



BACKGROUND INFORMATION

HDI

0.699



1,642,129

(UN World Urbanisation Prospects 2022 estimate)



Country	2018	2019	2020	2021	1 yr change
HDI	0.707	0.718	0.709	0.705	-0.004
Life expectancy at birth	71.5	71.7	68.8	67.6	-1.2
Expected years of schooling	12.9	13.6	13.8	13.8	+0.0
Mean years of schooling	8.0	8.2	8.6	8.6	+0.0
GNI per capita (PPP \$)	11,256	11,459	11,142	11,466	+325

PRIORITY AREAS

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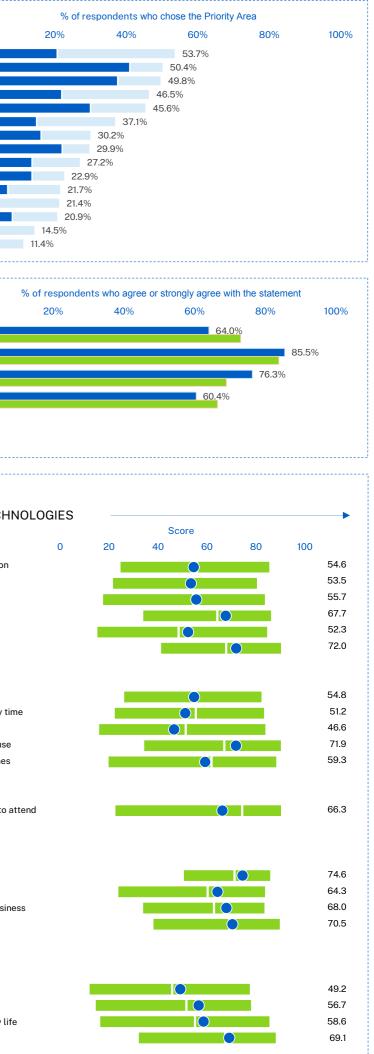
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0% unemployment corruption road congestion basic amenities security health services public transport air pollution green spaces recycling school education fulfilling employment affordable housing citizen engagement social mobility

0%

ATTITUDES

CC						·		
					LEGEND	D: MIN		TY MEAN GROUP MAX.
C in 2021	STRI	UCTURES		Score			•	TECHNOI
	Health & Safety	0	20	40 60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas					5	7.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					5	2.2	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					4	8.3	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					4	2.9	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					6	6.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	problem				6	1.2	Arranging medical appointments online has improved access
CC	Mobility							Mobility
	Traffic congestion is not a problem					3	6.3	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					5	7.9	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
CC								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory					6	4.1	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory					6	5.4	
	Opportunities (Work & School)							Opportunities (Work & School)
GROUP	Employment finding services are readily available					6	2.8	Online access to job listings has made it easier to find work
GROOP	Most children have access to a good school					6	9.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					6	0.3	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs				\bigcirc	7	8.6	The current internet speed and reliability meet connectivity needs
-	Minorities feel welcome					7	4.1	
	Governance							Governance
	Information on local government decisions are easily accessible					6	4.8	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		\bigcirc			2	6.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					6	1.9	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					6	1.4	Processing Identification Documents online has reduced waiting times



Manchester



BACKGROUND INFORMATION

City	
Population	н
553,230	0.

(Eurostat)

CITY RATING



BB in 2021

FACTOR RATINGS

BB STRUCTURES

BB TECHNOLOGIES

GROUP



All ratings range from AAA to D

HDI 0.915



Country HDI	2018 0.920	2019 0.932	2020 0.924	2021 0.929	1 yr change +0.005
Life expectancy at birth	81.2	81.3	80.4	80.7	+0.3
Expected years of schooling	17.4	17.5	17.3	17.3	+0.0
Mean years of schooling	13.0	13.2	13.4	13.4	+0.0
GNI per capita (PPP \$)	39,507	46,071	42,375	45,225	+2,850

PRIORITY AREAS

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0% affordable housing health services road congestion unemployment security air pollution public transport green spaces fulfilling employment recycling school education corruption social mobility basic amenities citizen engagement

0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

	STRUCTURES					•	<pre>TECHI</pre>
			Sco	ore		F	
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						66.8	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory)	69.0	A website or App allows residents to easily give away unwanted items
Public safety is not a problem						40.8	Free public wifi has improved access to city services
Air pollution is not a problem						36.8	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						57.7	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is	not a problem					34.8	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem		\bigcirc				25.8	Car-sharing Apps have reduced congestion
Public transport is satisfactory				\bigcirc		58.0	Apps that direct you to an available parking space have reduced journey tir
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory				\bigcirc		59.9	Online purchasing of tickets to shows and museums has made it easier to a
Cultural activities (shows, bars, and museums) are satisfactory			I			76.4	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						69.2	Online access to job listings has made it easier to find work
Most children have access to a good school						67.6	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						63.3	Online services provided by the city has made it easier to start a new busin
Businesses are creating new jobs						60.3	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						66.8	
Governance							Governance
Information on local government decisions are easily accessible				\bigcirc		59.9	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						49.4	Online voting has increased participation
Residents contribute to decision making of local government						48.5	An online platform where residents can propose ideas has improved city li
Residents provide feedback on local government projects						54.4	Processing Identification Documents online has reduced waiting times



44.3

54.7

Manila



CITY RATING

C

C in 2021

FACTOR

RATINGS

С

STRUCTURES

CC

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN Data)



Nap tiles by Stamen Design CC BY 3.0 Map Data © OpenStre

Country	2018	2019	2020	2021	1 yr change
HDI	0.712	0.718	0.710	0.699	-0.011
Life expectancy at birth	71.1	71.2	72.1	69.3	-2.9
Expected years of schooling	12.7	13.1	13.1	13.1	+0.0
Mean years of schooling	9.4	9.4	9.0	9.0	+0.0
GNI per capita (PPP \$)	9,540	9,778	8,559	8,920	+362

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0% health services corruption unemployment security road congestion air pollution public transport affordable housing basic amenities fulfilling employment school education recycling green spaces citizen engagement 5.3% social mobility 3.5%

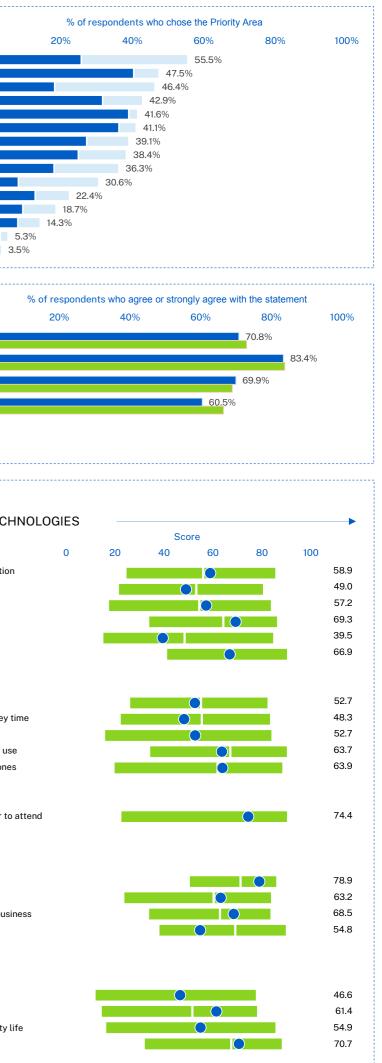
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

STRUCTU	IDEC				LEGEN		
SIRUCIU	IKES		Sc	ore			TECHNO
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas			(49.2	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory				\bigcirc		54.0	A website or App allows residents to easily give away unwanted items
Public safety is not a problem						36.8	Free public wifi has improved access to city services
Air pollution is not a problem						21.8	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						53.2	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a problen	m					38.7	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						15.5	Car-sharing Apps have reduced congestion
Public transport is satisfactory			\bigcirc			35.8	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory						52.6	Online purchasing of tickets to shows and museums has made it easier to atter
Cultural activities (shows, bars, and museums) are satisfactory)	68.2	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available				\bigcirc		59.0	Online access to job listings has made it easier to find work
Most children have access to a good school			(50.5	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						54.7	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs						72.3	The current internet speed and reliability meet connectivity needs
Minorities feel welcome				\bigcirc		59.3	
Governance							Governance
Information on local government decisions are easily accessible				\bigcirc		62.2	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						21.1	Online voting has increased participation
Residents contribute to decision making of local government)		46.8	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects						60.7	Processing Identification Documents online has reduced waiting times



Marseille



BACKGROUND INFORMATION

City	
Population	HDI
5,116,360	0.899

(Eurostat)

Day altition

Country	2018	2019	2020	2021	1 yr change
HDI	0.891	0.901	0.898	0.903	+0.005
Life expectancy at birth	82.5	82.7	82.2	82.5	+0.3
Expected years of schooling	15.5	15.6	15.8	15.8	+0.0
Mean years of schooling	11.4	11.5	11.6	11.6	+0.0
GNI per capita (PPP \$)	40,511	47,173	43,048	45,937	+2,889

PRIORITY AREAS

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security affordable housing road congestion air pollution unemployment corruption recycling basic amenities public transport health services green spaces school education fulfilling employment social mobility 10.4% citizen engagement 9.3%

0%

0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

CC								
					LEGE	ND: MI	N O	CITY MEAN GROUP MAX
CC in 2021	STRUCT	URES		0				TECHNOL
	Health & Safety	0	20	Score 40 60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas						46.1	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory						39.5	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem						33.1	Free public wifi has improved access to city services
	Air pollution is not a problem						23.3	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory						59.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a probl	em					29.1	Arranging medical appointments online has improved access
CC	Mobility							Mobility
	Traffic congestion is not a problem						21.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory						51.2	Apps that direct you to an available parking space have reduced journey time
	· ·							Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
CC								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						54.2	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory						68.5	
	Opportunities (Work & School)							Opportunities (Work & School)
	Employment finding services are readily available						54.0	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school						52.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						48.8	Online services provided by the city has made it easier to start a new business
_	Businesses are creating new jobs		I				48.9	The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome						46.2	
	Governance							Governance
	Information on local government decisions are easily accessible						51.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						34.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government						35.8	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						39.7	Processing Identification Documents online has reduced waiting times



Mecca



SMART

CITY RATING

BACKGROUND INFORMATION



estimate)

(UN World Urbanisation Prospects 2022

HDI

0.871



esign CC BY 3.0 Map Data @

Country	2018	2019	2020	2021	1 yr change
HDI	0.865	0.873	0.870	0.875	+0.005
Life expectancy at birth	77.2	77.3	76.2	76.9	+0.7
Expected years of schooling	15.7	16.0	16.1	16.1	+0.0
Mean years of schooling	10.6	8.3	8.3	8.3	+0.0
GNI per capita (PPP \$)	5,072	5,307	5,601	5,745	+143

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0% affordable housing unemployment road congestion green spaces fulfilling employment basic amenities health services air pollution recycling corruption security citizen engagement public transport social mobility school education

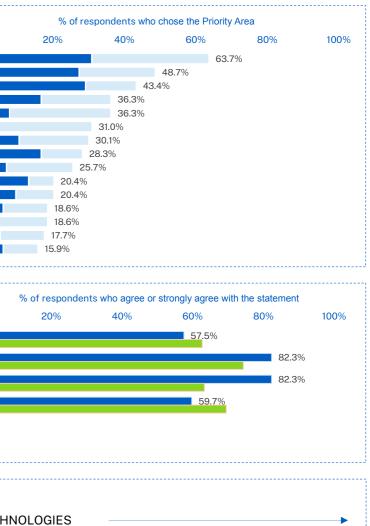
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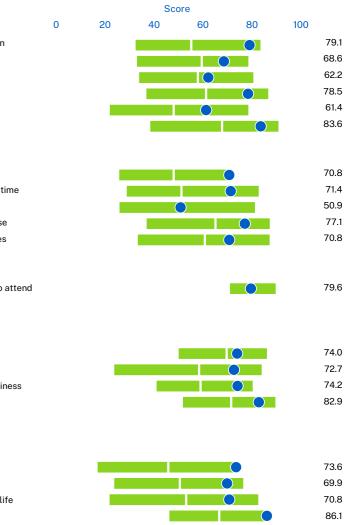
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

not in 2021	STRUCTI	URES						ECHNC
		UNEO		Score				Lonnie
	Health & Safety	0	20	40 60	80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas				\bigcirc	82.6	Online reporting of city maintenance problems provides a speedy so	lution
	Recycling services are satisfactory					66.8	A website or App allows residents to easily give away unwanted iter	ns
FACTOR	Public safety is not a problem					54.1	Free public wifi has improved access to city services	
RATINGS	Air pollution is not a problem					38.9	CCTV cameras has made residents feel safer	
	Medical services provision is satisfactory				\bigcirc	70.1	A website or App allows residents to effectively monitor air pollution	n
	Finding housing with rent equal to 30% or less of a monthly salary is not a proble	em		\bigcirc		55.6	Arranging medical appointments online has improved access	
B	Mobility						Mobility	
	Traffic congestion is not a problem					42.2	Car-sharing Apps have reduced congestion	
STRUCTURES	Public transport is satisfactory				\bigcirc	74.9	Apps that direct you to an available parking space have reduced jour	rney time
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has made public transport easier	to use
B							The city provides information on traffic congestion through mobile p	hones
	Activities						Activities	
TECHNOLOGIES	Green spaces are satisfactory					68.0	Online purchasing of tickets to shows and museums has made it eas	ier to atte
	Cultural activities (shows, bars, and museums) are satisfactory					68.3		
	Opportunities (Work & School)						Opportunities (Work & School)	
	Employment finding services are readily available					57.5	Online access to job listings has made it easier to find work	
GROUP	Most children have access to a good school					75.2	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions					67.7	Online services provided by the city has made it easier to start a new	v business
	Businesses are creating new jobs					67.7	The current internet speed and reliability meet connectivity needs	
•	Minorities feel welcome					68.6		
	Governance						Governance	
	Information on local government decisions are easily accessible				\bigcirc	79.1	Online public access to city finances has reduced corruption	
	Corruption of city officials is not an issue of concern					53.4	Online voting has increased participation	
All ratings range	Residents contribute to decision making of local government					54.3	An online platform where residents can propose ideas has improved	city life
from AAA to D	Residents provide feedback on local government projects					60.0	Processing Identification Documents online has reduced waiting tim	es





Medan



BACKGROUND INFORMATION

City	
Population	HDI
2,435,252	0.711

(UN Data)

SMART **CITY RATING**

> CC C in 2021

FACTOR RATINGS CC STRUCTURES

CC TECHNOLOGIES

GROUP



All ratings range from AAA to D



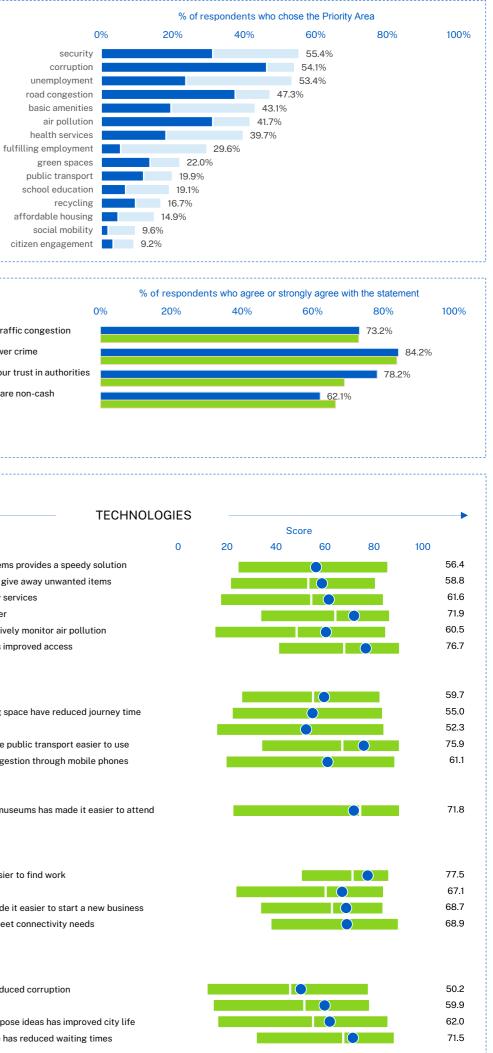
Map tiles by Stam esign CC BY 3.0 Map

Country	2018	2019	2020	2021	1 yr change
HDI	0.707	0.718	0.709	0.705	-0.004
Life expectancy at birth	71.5	71.7	68.8	67.6	-1.2
Expected years of schooling	12.9	13.6	13.8	13.8	+0.0
Mean years of schooling	8.0	8.2	8.6	8.6	+0.0
GNI per capita (PPP \$)	11,256	11,459	11,142	11,466	+325

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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ATTITUDES

STRI	JCTURES					•	•	TECHNOL
			Sc	ore				
Health & Safety	0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas				\bigcirc		57.2	Online reporting of city maintenance problems	provides a speedy solution
Recycling services are satisfactory				\bigcirc		53.4	A website or App allows residents to easily give	e away unwanted items
Public safety is not a problem						48.5	Free public wifi has improved access to city ser	vices
Air pollution is not a problem						32.5	CCTV cameras has made residents feel safer	
Medical services provision is satisfactory						63.4	A website or App allows residents to effectively	y monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a	problem			\bigcirc		62.0	Arranging medical appointments online has imp	proved access
Mobility							Mobility	
Traffic congestion is not a problem			\bigcirc			32.0	Car-sharing Apps have reduced congestion	
Public transport is satisfactory						54.3	Apps that direct you to an available parking spa	ace have reduced journey time
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has made pu	ublic transport easier to use
							The city provides information on traffic congest	tion through mobile phones
Activities							Activities	
Green spaces are satisfactory						58.8	Online purchasing of tickets to shows and muse	eums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory				\bigcirc		66.5		
Opportunities (Work & School)							Opportunities (Work & School)	
Employment finding services are readily available						58.3	Online access to job listings has made it easier	to find work
Most children have access to a good school						68.4	IT skills are taught well in schools	
ifelong learning opportunities are provided by local institutions						57.0	Online services provided by the city has made in	t easier to start a new business
Businesses are creating new jobs						76.6	The current internet speed and reliability meet	connectivity needs
Minorities feel welcome						70.2		
Governance							Governance	
nformation on local government decisions are easily accessible						63.1	Online public access to city finances has reduce	ed corruption
Corruption of city officials is not an issue of concern		\bigcirc				24.1	Online voting has increased participation	
Residents contribute to decision making of local government				\bigcirc		54.7	An online platform where residents can propos	e ideas has improved city life
Residents provide feedback on local government projects						56.6	Processing Identification Documents online has	s reduced waiting times

Medellin



CITY RATING

BACKGROUND INFORMATION



(UN Data)



change
-0.004
-1.9
+0.0
+0.0
+1,199

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

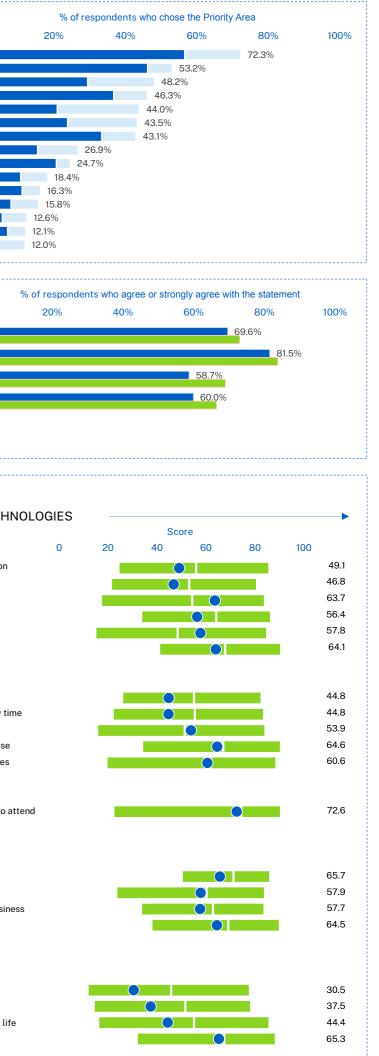
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0% security corruption health services air pollution unemployment fulfilling employment affordable housing basic amenities road congestion school education public transport social mobility recycling citizen engagement 12.1% green spaces

0%

ATTITUDES

						·		
U					LEGEND): MIN 🔵 (MEAN GROUP MAX	
C in 2021		RES					•	TECHNOL
	Health & Cafaty	0	20	Score	80	100	Health & Cafaty	
	Health & Safety	0	20	00	00	49.1	Health & Safety Online reporting of city maintenance problems prov	idea a apachy solution
	Basic sanitation meets the needs of the poorest areas					64.6		
FACTOR	Recycling services are satisfactory					30.7	A website or App allows residents to easily give aw	
	Public safety is not a problem					27.2	Free public wifi has improved access to city service CCTV cameras has made residents feel safer	5
RATINGS	Air pollution is not a problem					50.3		nites ais nellection
	Medical services provision is satisfactory						A website or App allows residents to effectively mo	
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem					29.6	Arranging medical appointments online has improve	ed access
G	Mobility						Mobility	
	Traffic congestion is not a problem					27.0	Car-sharing Apps have reduced congestion	
STRUCTURES	Public transport is satisfactory					60.7	Apps that direct you to an available parking space h	nave reduced journey time
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has made public	transport easier to use
C							The city provides information on traffic congestion	through mobile phones
	Activities						Activities	
TECHNOLOGIES	Green spaces are satisfactory					73.1	Online purchasing of tickets to shows and museums	s has made it easier to attend
TEOTINOEOGIES	Cultural activities (shows, bars, and museums) are satisfactory					75.0	Online purchasing of tickets to shows and museums	
	Cultural activities (shows, bars, and museums) are satisfactory					73.0		
	Opportunities (Work & School)						Opportunities (Work & School)	
GROUP	Employment finding services are readily available					57.6	Online access to job listings has made it easier to fi	nd work
GROUP	Most children have access to a good school					53.2	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions					54.6	Online services provided by the city has made it eas	sier to start a new business
	Businesses are creating new jobs					48.5	The current internet speed and reliability meet con	nectivity needs
4	Minorities feel welcome			ightarrow		41.9		
	Governance						Governance	
	Information on local government decisions are easily accessible					47.7	Online public access to city finances has reduced of	orruption
	Corruption of city officials is not an issue of concern					22.3	Online voting has increased participation	
All ratings range	Residents contribute to decision making of local government					31.3	An online platform where residents can propose ide	eas has improved city life
from AAA to D	Residents contribute to decision making or local government Residents provide feedback on local government projects					43.4	Processing Identification Documents online has red	



Medina



SMART

CITY RATING

CCC

CCC in 2021

FACTOR

RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

BACKGROUND INFORMATION

HDI

0.871



(UN World Urbanisation Prospects 2022 estimate)



Country	2018	2019	2020	2021	1 yr change
HDI	0.865	0.873	0.870	0.875	+0.005
Life expectancy at birth	77.2	77.3	76.2	76.9	+0.7
Expected years of schooling	15.7	16.0	16.1	16.1	+0.0
Mean years of schooling	10.6	8.3	8.3	8.3	+0.0
GNI per capita (PPP \$)	5,072	5,307	5,601	5,745	+143

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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unemployment affordable housing road congestion green spaces fulfilling employment public transport recycling basic amenities health services corruption air pollution school education citizen engagement social mobility 8.2%

0%

0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

	STRUCTURES						TECHNOLO
	SIRUCIURES		Sc	ore			TECHNOLO
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						72.9	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory						63.8	A website or App allows residents to easily give away unwanted items
Public safety is not a problem						46.8	Free public wifi has improved access to city services
Air pollution is not a problem		(29.8	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						71.7	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary	is not a problem		(51.3	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						39.0	Car-sharing Apps have reduced congestion
Public transport is satisfactory						58.6	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory						56.6	Online purchasing of tickets to shows and museums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory						62.3	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						39.1	Online access to job listings has made it easier to find work
Most children have access to a good school				(70.8	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						60.7	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs						51.5	The current internet speed and reliability meet connectivity needs
Minorities feel welcome		I				63.4	
Governance							Governance
Information on local government decisions are easily accessible					\bigcirc	72.0	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						47.0	Online voting has increased participation
Residents contribute to decision making of local government)		47.5	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects						55.0	Processing Identification Documents online has reduced waiting times

All ratings range from AAA to D



Melbourne



BACKGROUND INFORMATION

н
0.9

SMART **CITY RATING**



BB in 2021

FACTOR RATINGS BBB

STRUCTURES

Α TECHNOLOGIES

GROUP



IDI .948 (UN Data)



Country HDI	2018 0.941	2019 0.941	2020 0.947	2021 0.951	1 yr change +0.004
Life expectancy at birth	83.4	83.1	84.3	84.5	+0.2
Expected years of schooling	18.0	18.0	18.0	18.0	+0.0
Mean years of schooling	12.6	12.1	12.4	12.4	+0.0
GNI per capita (PPP \$)	43,821	52,085	49,392	52,293	+2,901

PRIORITY AREAS

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0% affordable housing road congestion health services unemployment security recycling fulfilling employment public transport corruption school education air pollution social mobility green spaces basic amenities citizen engagement 9.6%

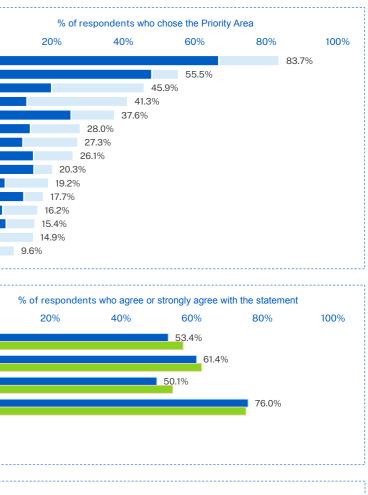
0%

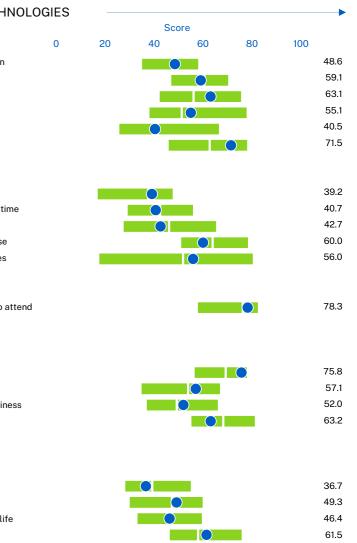
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

STRUCTURES						TECH	NOL
		Sc	ore				
Health & Safety 0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas					65.7	Online reporting of city maintenance problems provides a speedy solution	
Recycling services are satisfactory					63.2	A website or App allows residents to easily give away unwanted items	
Public safety is not a problem					43.4	Free public wifi has improved access to city services	
Air pollution is not a problem)		47.0	CCTV cameras has made residents feel safer	
Medical services provision is satisfactory			\bigcirc		63.4	A website or App allows residents to effectively monitor air pollution	
Finding housing with rent equal to 30% or less of a monthly salary is not a problem)			27.2	Arranging medical appointments online has improved access	
Mobility						Mobility	
Traffic congestion is not a problem					23.1	Car-sharing Apps have reduced congestion	
Public transport is satisfactory					56.2	Apps that direct you to an available parking space have reduced journey tin	me
						Bicycle hiring has reduced congestion	
						Online scheduling and ticket sales has made public transport easier to use	
						The city provides information on traffic congestion through mobile phones	
Activities						Activities	
Green spaces are satisfactory					70.3	Online purchasing of tickets to shows and museums has made it easier to a	attend
Cultural activities (shows, bars, and museums) are satisfactory					78.5		
Opportunities (Work & School)						Opportunities (Work & School)	
Employment finding services are readily available					70.5	Online access to job listings has made it easier to find work	
Most children have access to a good school					71.2	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institutions					68.3	Online services provided by the city has made it easier to start a new busin	ess
Businesses are creating new jobs					59.3	The current internet speed and reliability meet connectivity needs	
Minorities feel welcome			\bigcirc		61.3		
Governance						Governance	
Information on local government decisions are easily accessible					58.1	Online public access to city finances has reduced corruption	
Corruption of city officials is not an issue of concern					41.7	Online voting has increased participation	
Residents contribute to decision making of local government)		47.0	An online platform where residents can propose ideas has improved city lif	e
Residents provide feedback on local government projects					59.0	Processing Identification Documents online has reduced waiting times	





Mexico City



C

BACKGROUND INFORMATION



22,085,139



(UN World Urbanisation Prospects 2022 estimate)

0.815

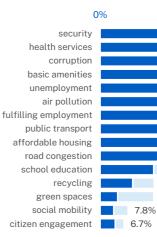


Country	2018	2019	2020	2021	1 yr change
HDI	0.767	0.779	0.756	0.758	+0.002
Life expectancy at birth	75.0	75.1	70.1	70.2	+0.1
Expected years of schooling	14.3	14.8	14.9	14.9	+0.0
Mean years of schooling	8.6	8.8	9.2	9.2	+0.0
GNI per capita (PPP \$)	17,628	19,160	17,235	17,896	+662

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



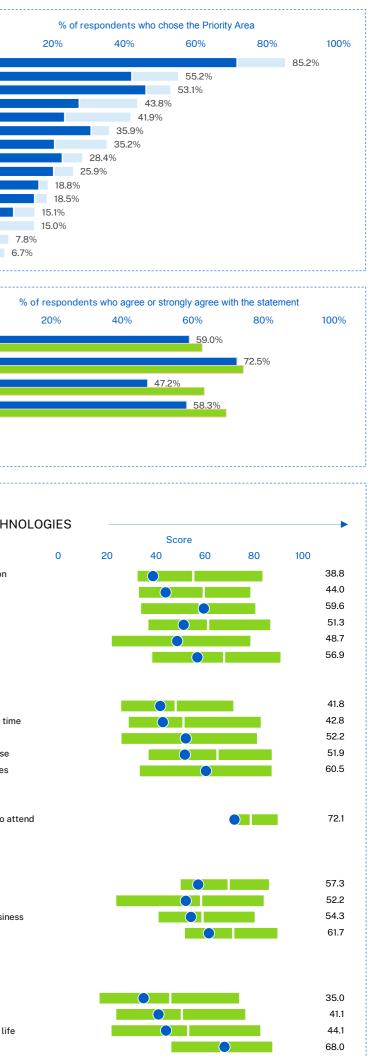
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

\checkmark						LEGEND	D: MIN	۷	CITY MEAN GROUP MAX
C in 2021	STRUC	CTURES							TECHNOL
				Sco	re				
	Health & Safety	0	20	40	60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas			\bigcirc				38.8	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory							41.9	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem		\bigcirc					20.6	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		\bigcirc					18.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory			\bigcirc				35.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pr	oblem	\bigcirc					26.1	Arranging medical appointments online has improved access
C	Mobility								Mobility
	Traffic congestion is not a problem							20.1	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory							28.9	Apps that direct you to an available parking space have reduced journey time
									Bicycle hiring has reduced congestion
									Online scheduling and ticket sales has made public transport easier to use
CC									The city provides information on traffic congestion through mobile phones
	Activities								Activities
TECHNOLOGIES	Green spaces are satisfactory							57.1	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory							70.4	
	Opportunities (Work & School)								Opportunities (Work & School)
GROUP	Employment finding services are readily available							46.8	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school			\bigcirc				35.5	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions			\bigcirc				35.9	Online services provided by the city has made it easier to start a new business
_	Businesses are creating new jobs							46.7	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome			\bigcirc				36.6	
	Governance								Governance
	Information on local government decisions are easily accessible)			49.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		\bigcirc					16.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government							36.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects							37.6	Processing Identification Documents online has reduced waiting times



Milan



CITY RATING

BACKGROUND INFORMATION



(Eurostat)

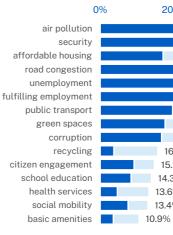


Country	2018	2019	2020	2021	1 yr change
HDI	0.883	0.892	0.889	0.895	+0.006
Life expectancy at birth	83.4	83.5	82.4	82.9	+0.4
Expected years of schooling	16.2	16.1	16.2	16.2	+0.0
Mean years of schooling	10.2	10.4	10.7	10.7	+0.0
GNI per capita (PPP \$)	36,141	42,776	39,901	42,840	+2,939

PRIORITY AREAS

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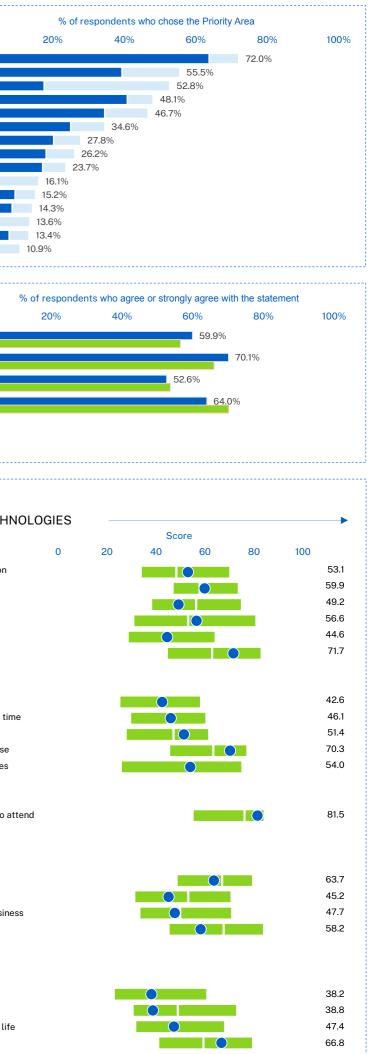
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0%

ATTITUDES

BB							
DD					LEGEN	D: MIN	CITY MEAN GROUP MAX
CC in 2021	STRUCTU	IRES					TECHNOL
	Health & Safety	0	20	Score 40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	Ŭ	20	40 00	00	64.7	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					78.8	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					41.6	Free public wifi has improved access to city services
DATINGO	Air pollution is not a problem					18.7	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory					60.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	m				60.8	Arranging medical appointments online has improved access
BB	Mobility						Mobility
	Traffic congestion is not a problem					20.9	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					54.9	Apps that direct you to an available parking space have reduced journey time
						0.110	Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					56.1	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					81.0	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available					43.4	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					62.1	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					55.1	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					45.6	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome					43.1	
	Governance						Governance
	Information on local government decisions are easily accessible					54.8	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					35.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					32.7	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					42.0	Processing Identification Documents online has reduced waiting times



Montreal



BB

BACKGROUND INFORMATION



(UN Data)



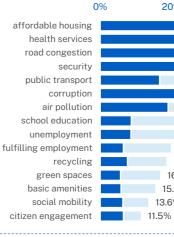
iles by Stamen Design CC BY 3.0 Map Data © O

Country	2018	2019	2020	2021	1 yr change
HDI	0.933	0.937	0.931	0.936	+0.005
Life expectancy at birth	82.1	82.4	82.1	82.7	+0.6
Expected years of schooling	16.2	16.4	16.4	16.4	+0.0
Mean years of schooling	13.8	8.7	8.8	8.8	+0.0
GNI per capita (PPP \$)	18,371	18,486	18,754	19,974	+1,220

PRIORITY AREAS

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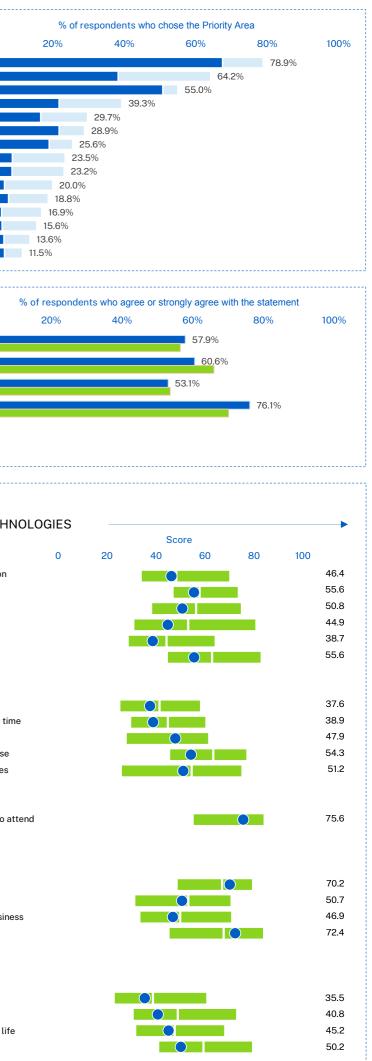
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

DD		LEC	GEND: MIN	TY MEAN GROUP MAX
BB in 2021	STRUCTURES			
		Score		
	Health & Safety 0 20	40 60 80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas		63.8	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory		69.3	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem		56.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		42.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory		47.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem		24.6	Arranging medical appointments online has improved access
BBB	Mobility			Mobility
	Mobility Traffic congestion is not a problem		18.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		59.2	Apps that direct you to an available parking space have reduced journey time
STRUCTURES			53.Z	Bicycle hiring has reduced congestion
				Online scheduling and ticket sales has made public transport easier to use
				The city provides information on traffic congestion through mobile phones
B				The city provides information on traine congestion through mobile phones
	Activities			Activities
TECHNOLOGIES	Green spaces are satisfactory		72.3	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory		80.6	
	Opportunities (Work & School)			Opportunities (Work & School)
000110	Employment finding services are readily available		70.7	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school		69.5	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions		70.5	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs		67.1	The current internet speed and reliability meet connectivity needs
∠	Minorities feel welcome		61.8	
	Covernance			Covernance
	Governance Information on local government decisions are easily accessible		60.3	Governance Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		40.8	Online voting has increased participation
All ratings range			40.8	
	Residents contribute to decision making of local government		44.5 54.1	An online platform where residents can propose ideas has improved city life Processing Identification Documents online has reduced waiting times
from AAA to D	Residents provide feedback on local government projects		54.1	Frocessing identification bocuments online has reduced walting times



Mumbai



SMART

CITY RATING

CC

CC in 2021

FACTOR

RATINGS

CC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



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Country	2018	2019	2020	2021	1 yr change
HDI	0.647	0.645	0.642	0.633	-0.009
Life expectancy at birth	69.4	69.7	70.2	67.2	-2.9
Expected years of schooling	12.3	12.2	11.9	11.9	+0.0
Mean years of schooling	6.5	6.5	6.7	6.7	+0.0
GNI per capita (PPP \$)	6,829	6,681	6,107	6,590	+482

PRIORITY AREAS

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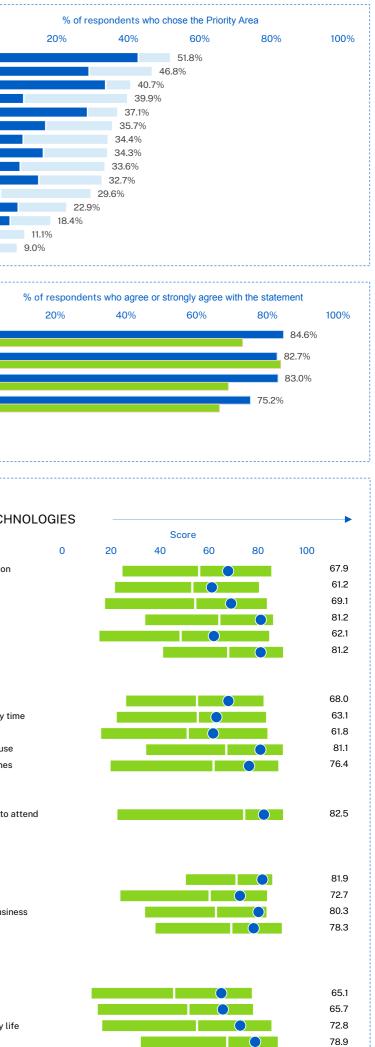
0% air pollution affordable housing road congestion basic amenities corruption security unemployment green spaces health services public transport fulfilling employment recycling school education social mobility 11.1% citizen engagement 9.0%

0%

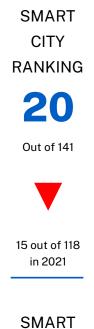
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

¢	STRUCTURES						•	TECHNOL
			Sc	ore				
Health & Safety	0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas						67.6	Online reporting of city maintenance	problems provides a speedy solution
Recycling services are satisfactory						66.4	A website or App allows residents to	easily give away unwanted items
Public safety is not a problem						48.6	Free public wifi has improved access	to city services
Air pollution is not a problem						25.6	CCTV cameras has made residents fe	el safer
Medical services provision is satisfactory						72.2	A website or App allows residents to	effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly sa	lary is not a problem		\bigcirc			45.5	Arranging medical appointments onli	ne has improved access
Mobility							Mobility	
Traffic congestion is not a problem						25.0	Car-sharing Apps have reduced cong	estion
Public transport is satisfactory						65.8	Apps that direct you to an available p	arking space have reduced journey time
							Bicycle hiring has reduced congestion	n
							Online scheduling and ticket sales ha	s made public transport easier to use
							The city provides information on traff	ic congestion through mobile phones
Activities							Activities	
Green spaces are satisfactory						61.5	Online purchasing of tickets to shows	and museums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory	/					74.5		
Opportunities (Work & School)							Opportunities (Work & Sch	ool)
Employment finding services are readily available						74.0	Online access to job listings has made	e it easier to find work
Most children have access to a good school						70.1	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institutio	ns					68.8	Online services provided by the city h	as made it easier to start a new business
Businesses are creating new jobs						77.4	The current internet speed and reliab	ility meet connectivity needs
Minorities feel welcome					\bigcirc	73.8		
Governance							Governance	
Information on local government decisions are easily accessib	le				\bigcirc	75.8	Online public access to city finances I	has reduced corruption
Corruption of city officials is not an issue of concern						39.9	Online voting has increased participat	tion
Residents contribute to decision making of local government						62.8	An online platform where residents ca	an propose ideas has improved city life
Residents provide feedback on local government projects						66.8	Processing Identification Documents	



Munich



CITY RATING

BACKGROUND INFORMATION



(Eurostat)

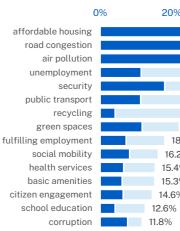
Belarus

2018	2019	2020	2021	1 yr change
0.939	0.947	0.944	0.942	-0.002
81.2	81.3	81.2	80.6	-0.5
17.1	17.0	17.0	17.0	+0.0
14.1	14.2	14.1	14.1	+0.0
46,946	55,314	53,078	54,534	+1,457
	0.939 81.2 17.1 14.1	0.939 0.947 81.2 81.3 17.1 17.0 14.1 14.2	0.9390.9470.94481.281.381.217.117.017.014.114.214.1	0.9390.9470.9440.94281.281.381.280.617.117.017.017.014.114.214.114.1

PRIORITY AREAS

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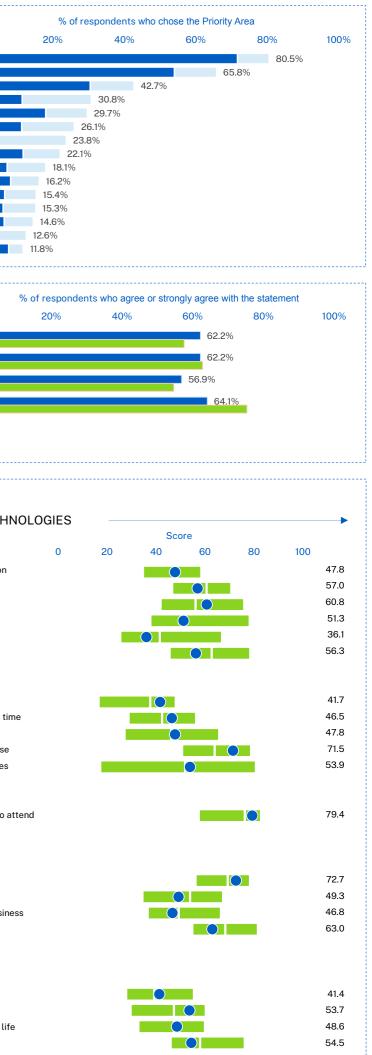
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0%

ATTITUDES

ΔΔ					,			
					LEGEN	D: MIN	CITY MEAN GROUP MAX	
AA in 2021	STRUC	TURES		Caoro			4	TECHNO
	Health & Safety	0	20	Score 40 60	80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas					73.2	Online reporting of city maintenance problems provides a spe	edy solution
	Recycling services are satisfactory					78.7	A website or App allows residents to easily give away unwant	ted items
FACTOR	Public safety is not a problem					63.2	Free public wifi has improved access to city services	
RATINGS	Air pollution is not a problem					42.8	CCTV cameras has made residents feel safer	
NATINGS	Medical services provision is satisfactory					76.8	A website or App allows residents to effectively monitor air p	ollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem				19.9	Arranging medical appointments online has improved access	
AA	Mobility						Mobility	
	Traffic congestion is not a problem					28.3	Car-sharing Apps have reduced congestion	
STRUCTURES	Public transport is satisfactory				\bigcirc	66.9	Apps that direct you to an available parking space have reduc	ced journey time
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has made public transport	easier to use
Δ							The city provides information on traffic congestion through m	obile phones
	Activities						Activities	
TECHNOLOGIES	Green spaces are satisfactory					71.9	Online purchasing of tickets to shows and museums has mad	e it easier to atte
	Cultural activities (shows, bars, and museums) are satisfactory			-		84.3		
	Opportunities (Work & School)						Opportunities (Work & School)	
GROUP	Employment finding services are readily available					64.4	Online access to job listings has made it easier to find work	
GROUP	Most children have access to a good school					71.9	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions					63.6	Online services provided by the city has made it easier to star	t a new business
4	Businesses are creating new jobs					68.7	The current internet speed and reliability meet connectivity n	reeds
	Minorities feel welcome			\bigcirc		57.8		
	Governance						Governance	
	Information on local government decisions are easily accessible)	62.6	Online public access to city finances has reduced corruption	
	Corruption of city officials is not an issue of concern					62.2	Online voting has increased participation	
All ratings range	Residents contribute to decision making of local government					54.6	An online platform where residents can propose ideas has im	proved city life
from AAA to D	Residents provide feedback on local government projects					57.6	Processing Identification Documents online has reduced wait	ing times



Muscat



SMART

CITY RATING

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



ien Design CC BY 3.0 Map Dati

Country	2018	2019	2020	2021	1 yr change
HDI	0.834	0.839	0.827	0.816	-0.011
Life expectancy at birth	78.0	78.0	74.8	72.5	-2.2
Expected years of schooling	14.1	14.3	14.6	14.6	+0.0
Mean years of schooling	10.8	11.2	11.7	11.7	+0.0
GNI per capita (PPP \$)	30,632	29,071	27,277	27,054	-223

PRIORITY AREAS

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0% affordable housing unemployment road congestion fulfilling employment green spaces public transport recycling health services citizen engagement corruption basic amenities air pollution school education social mobility 13.7% security

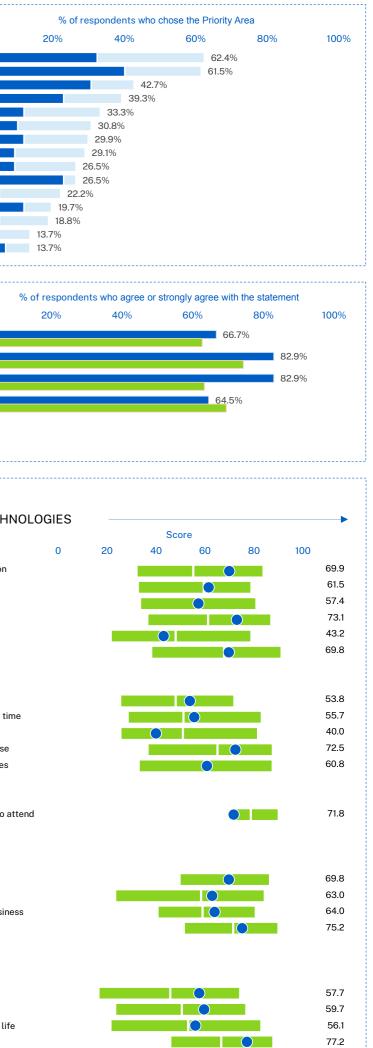
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

B	L					
D				LEGE	END: MIN	CITY MEAN GROUP MAX
not in 2021	 ▲ ST 	RUCTURES	Score			TECHNOI
	Health & Safety	0 20) 80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				75.6	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				68.1	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				70.2	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	_			61.4	CCTV cameras has made residents feel safer
NATINGS	Medical services provision is satisfactory	_			78.3	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not	a problem		Ŭ	53.1	Arranging medical appointments online has improved access
B	Mobility					Mobility
	Traffic congestion is not a problem				52.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory			\bigcirc	68.7	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
CCC						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				72.9	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory				68.8	
	Opportunities (Work & School)					Opportunities (Work & School)
GROUP	Employment finding services are readily available				44.6	Online access to job listings has made it easier to find work
	Most children have access to a good school				78.1	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				63.1	Online services provided by the city has made it easier to start a new business
2	Businesses are creating new jobs)	59.5	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome				70.5	
	Governance					Governance
	Information on local government decisions are easily accessible	_		\bigcirc	73.5	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				50.1	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				50.0	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				55.6	Processing Identification Documents online has reduced waiting times



Nairobi



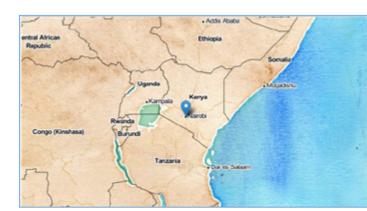
CITY RATING

C

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



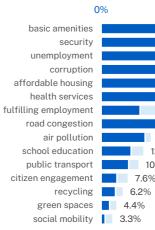
n CC BY 3.0 Map Data © O

Country	2018	2019	2020	2021	1 yr change
HDI	0.579	0.601	0.578	0.575	-0.003
Life expectancy at birth	66.3	66.7	62.7	61.4	-1.3
Expected years of schooling	11.1	11.3	10.7	10.7	+0.0
Mean years of schooling	6.6	6.6	6.7	6.7	+0.0
GNI per capita (PPP \$)	3,052	4,244	4,267	4,474	+207

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

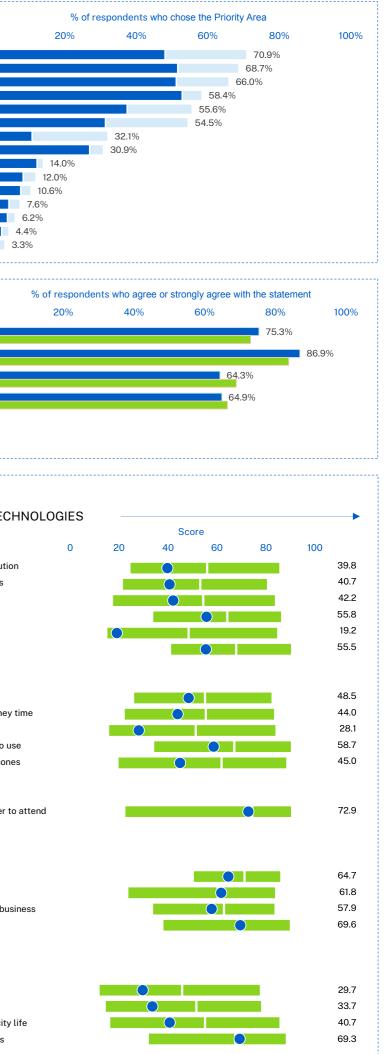
The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



0%

ATTITUDES

L		
D in 2021	STRUCTURES	TECHNOL
		Score 60 80 100 Health & Safety
	Treatting Safety	Theatting Safety
	Basic sanitation meets the needs of the poorest areas	36.8 Online reporting of city maintenance problems provides a speedy solution 43.2 A website or App allows residents to easily give away unwanted items
FACTOR	Recycling services are satisfactory	
	Public safety is not a problem	
RATINGS	Air pollution is not a problem	19.6 CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	46.9 A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	37.8 Arranging medical appointments online has improved access
C	Mobility	Mobility
	Traffic congestion is not a problem	14.3 Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	42.1 Apps that direct you to an available parking space have reduced journey time
		Bicycle hiring has reduced congestion
		Online scheduling and ticket sales has made public transport easier to use
C		The city provides information on traffic congestion through mobile phones
	Activities	Activities
TECHNOLOGIES	Green spaces are satisfactory	48.7 Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	74.9
	Opportunities (Work & School)	Opportunities (Work & School)
	Employment finding services are readily available	26.1 Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	38.0 IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	43.7 Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	64.1 The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome	49.1
	Governance	Governance
	Information on local government decisions are easily accessible	52.5 Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	12.8 Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	30.4 An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	43.6 Processing Identification Documents online has reduced waiting times



Nanjing



CITY RATING

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



CC BY 3.0 Map Data © (

Country	2018	2019	2020	2021	1 yr change
HDI	0.758	0.761	0.764	0.768	+0.004
Life expectancy at birth	76.7	76.9	78.1	78.2	+0.1
Expected years of schooling	13.9	14.0	14.2	14.2	+0.0
Mean years of schooling	7.9	8.1	7.6	7.6	+0.0
GNI per capita (PPP \$)	16,127	16,057	16,201	17,504	+1,303

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

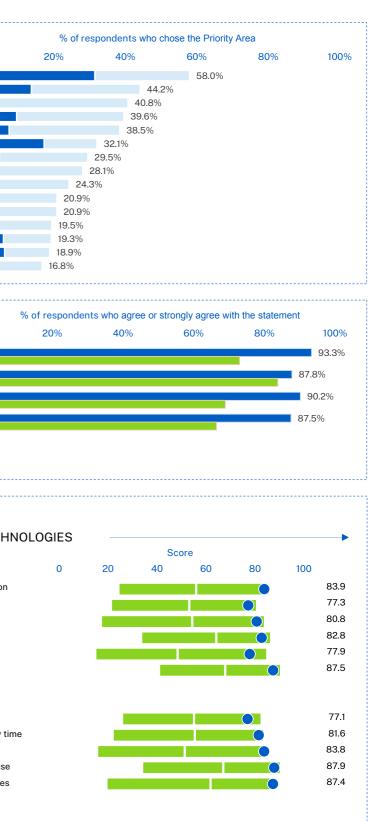
0% road congestion air pollution health services affordable housing fulfilling employment corruption school education basic amenities social mobility recycling security green spaces public transport citizen engagement unemployment

0%

ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

CCC						····		
					LEGEN	D: MIN		CITY MEAN GROUP MAX
CCC in 2021	< STRUC	CTURES		Score				TECHNO
	Health & Safety	0	20 4	0 60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas						87.0	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory						81.5	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem						82.3	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						67.4	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory						83.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pr	oblem			\bigcirc		71.7	Arranging medical appointments online has improved access
CCC	Mobility							Mobility
	Traffic congestion is not a problem	-					54.0	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory						77.7	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
CCC								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						85.0	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory						83.3	
	Opportunities (Work & School)							Opportunities (Work & School)
GROUP	Employment finding services are readily available						83.0	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				\bigcirc		80.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						76.5	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs				\bigcirc		79.2	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome				\bigcirc		81.9	
	Governance							Governance
	Information on local government decisions are easily accessible						76.8	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						60.9	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government						63.4	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						74.7	Processing Identification Documents online has reduced waiting times







89.0



New York



SMART

CITY RATING

BACKGROUND INFORMATION

City	
Population	HDI
8,804,190	0.938

(UN Data)

Map tiles by Stamen Design CC BY 3.0 Map Data © Ope

Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.926	0.920	0.921	+0.001
Life expectancy at birth	78.9	78.9	77.4	77.2	-0.2
Expected years of schooling	16.3	16.3	16.3	16.3	+0.0
Mean years of schooling	13.4	13.4	13.7	13.7	+0.0
GNI per capita (PPP \$)	56,140	63,826	61,462	64,765	+3,304

PRIORITY AREAS

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0% affordable housing security road congestion health services air pollution unemployment corruption public transport fulfilling employment basic amenities school education green spaces social mobility recycling citizen engagement 8.8%

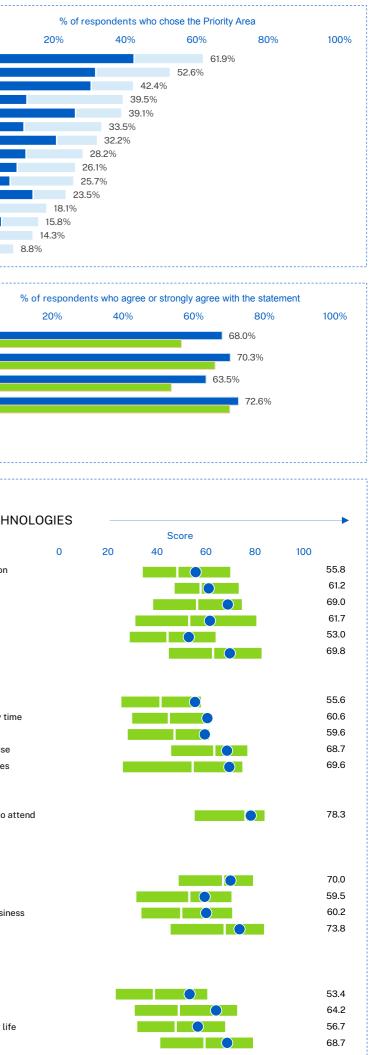
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

BBB	·····				i		
DDD				LEG	GEND: MIN	ı 🌔 (MEAN GROUP MAX
AA in 2021	STRUCTURES	s —					TECHNOL
			Score		100		
	Treatting Salety	0 20	40 60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas					62.8	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory					69.8	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem					42.3	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					38.8	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory			\bigcirc		68.7	A website or App allows residents to effectively monitor air pollution
DDD	Finding housing with rent equal to 30% or less of a monthly salary is not a problem					43.4	Arranging medical appointments online has improved access
BBB	Mobility						Mobility
	Traffic congestion is not a problem					35.0	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					56.4	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
Δ							The city provides information on traffic congestion through mobile phones
~	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					69.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					77.5	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available	_				69.5	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	_				61.6	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					64.2	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					65.0	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome					64.0	
	Governance						Governance
	Information on local government decisions are easily accessible					67.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					42.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					56.7	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					63.6	Processing Identification Documents online has reduced waiting times
t	- <u>L</u>						



Newcastle



CCC

CCC in 2021

FACTOR

RATINGS

B

STRUCTURES

CC

TECHNOLOGIES

GROUP

BACKGROUND INFORMATION

City	
Population	HDI
2,656,980	0.901

(Eurostat)



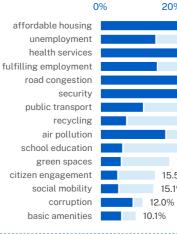
Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreet

Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.932	0.924	0.929	+0.005
Life expectancy at birth	81.2	81.3	80.4	80.7	+0.3
Expected years of schooling	17.4	17.5	17.3	17.3	+0.0
Mean years of schooling	13.0	13.2	13.4	13.4	+0.0
GNI per capita (PPP \$)	39,507	46,071	42,375	45,225	+2,850

PRIORITY AREAS

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0%

ATTITUDES

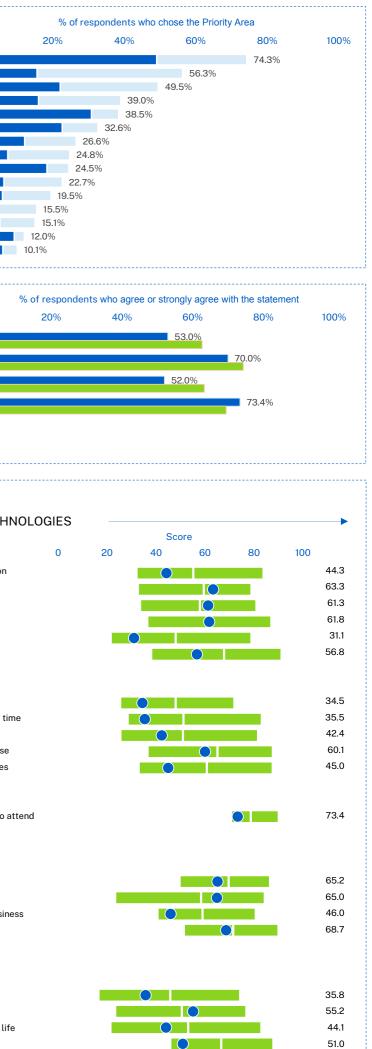
LEGEND: GRO

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

STRUC	TURES						TEC
			Sco	ore			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						66.6	Online reporting of city maintenance problems provides a speedy solut
Recycling services are satisfactory)	72.2	A website or App allows residents to easily give away unwanted items
Public safety is not a problem)		48.8	Free public wifi has improved access to city services
Air pollution is not a problem						44.7	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						64.8	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a pro-	blem					40.0	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem			\bigcirc			33.0	Car-sharing Apps have reduced congestion
Public transport is satisfactory						65.4	Apps that direct you to an available parking space have reduced journ
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to
							The city provides information on traffic congestion through mobile pho
Activities							Activities
Green spaces are satisfactory				\bigcirc		67.0	Online purchasing of tickets to shows and museums has made it easier
Cultural activities (shows, bars, and museums) are satisfactory						80.6	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						66.4	Online access to job listings has made it easier to find work
Most children have access to a good school)	72.4	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						64.6	Online services provided by the city has made it easier to start a new b
Businesses are creating new jobs				\bigcirc		59.8	The current internet speed and reliability meet connectivity needs
Minorities feel welcome		I				67.6	
Governance							Governance
Information on local government decisions are easily accessible						55.2	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern				\bigcirc		54.3	Online voting has increased participation
Residents contribute to decision making of local government						46.2	An online platform where residents can propose ideas has improved ci
Residents provide feedback on local government projects						54.5	Processing Identification Documents online has reduced waiting times

All ratings range from AAA to D



Nicosia



BACKGROUND INFORMATION



(Eurostat)

. Arkara

Country	2018	2019	2020	2021	1 yr change
HDI	0.892	0.897	0.894	0.896	+0.002
Life expectancy at birth	81.4	81.4	81.4	81.2	-0.2
Expected years of schooling	15.4	15.7	15.7	15.7	+0.0
Mean years of schooling	12.3	12.4	12.4	12.4	+0.0
GNI per capita (PPP \$)	38,544	39,568	36,519	38,188	+1,669

PRIORITY AREAS

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road congestion affordable housing corruption security public transport green spaces school education health services fulfilling employment unemployment recycling citizen engagement air pollution basic amenities 11.8% social mobility 8.4%

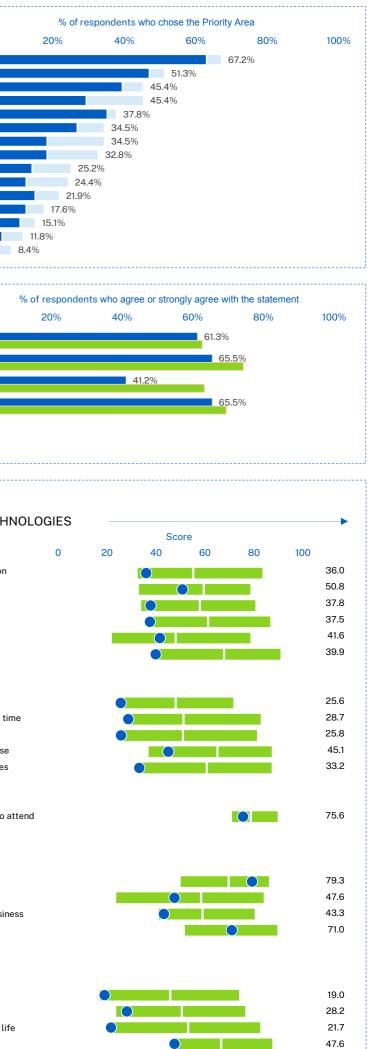
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

C						LEGEN	ND: MI	N	CITY MEAN GROUP MAX
not in 2021	STRUCTUF	RES		0				•	TECHNOLO
	Health & Safety Basic sanitation meets the needs of the poorest areas	0	20	40	60	80	100	69.5	Health & Safety Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory Public safety is not a problem)			47.1 48.3	A website or App allows residents to easily give away unwanted items Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem Medical services provision is satisfactory Finding housing with rent equal to 30% or less of a monthly salary is not a problem							33.6 57.8 16.2	CCTV cameras has made residents feel safer A website or App allows residents to effectively monitor air pollution Arranging medical appointments online has improved access
CC	Mobility Traffic congestion is not a problem							13.0	Mobility Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory							15.3	Apps that direct you to an available parking space have reduced journey time Bicycle hiring has reduced congestion Online scheduling and ticket sales has made public transport easier to use The city provides information on traffic congestion through mobile phones
•	Activities								Activities
TECHNOLOGIES	Green spaces are satisfactory Cultural activities (shows, bars, and museums) are satisfactory							42.4 53.8	Online purchasing of tickets to shows and museums has made it easier to attend
	Opportunities (Work & School) Employment finding services are readily available							54.1	Opportunities (Work & School) Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school Lifelong learning opportunities are provided by local institutions							57.7 44.5	IT skills are taught well in schools Online services provided by the city has made it easier to start a new business
3	Businesses are creating new jobs Minorities feel welcome)			48.6 38.7	The current internet speed and reliability meet connectivity needs
	Governance								Governance
	Information on local government decisions are easily accessible							40.8	Online public access to city finances has reduced corruption
All ratings range	Corruption of city officials is not an issue of concern Residents contribute to decision making of local government							18.8 19.2	Online voting has increased participation An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects			\bigcirc				31.9	Processing Identification Documents online has reduced waiting times

0%

0%



Osaka



B

BACKGROUND INFORMATION

City	
Population	HDI
2,752,412	0.928

(UN Data)



Map tiles by Stamen Design CC BY 3.0 Map Data © Ope

Country	2018	2019	2020	2021	1 yr change
HDI	0.915	0.919	0.923	0.925	+0.002
Life expectancy at birth	84.5	84.6	84.7	84.8	+0.1
Expected years of schooling	15.2	15.2	15.2	15.2	+0.0
Mean years of schooling	12.8	12.9	13.4	13.4	+0.0
GNI per capita (PPP \$)	40,799	42,932	41,487	42,274	+787

PRIORITY AREAS

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0% health services basic amenities affordable housing security fulfilling employment road congestion school education unemployment public transport air pollution corruption green spaces citizen engagement recycling social mobility

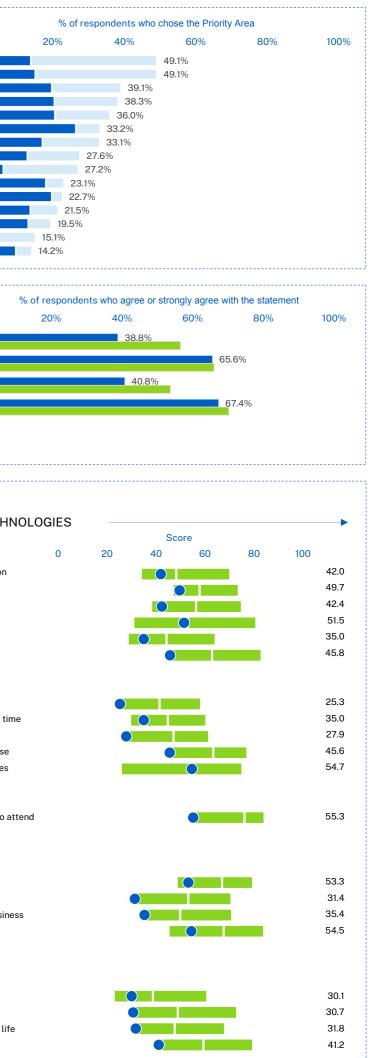
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ATTITUDES

LEGEND: GR

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

D				Ū	LEGEND:		CITY MEAN GROUP MAX
CCC in 2021	STRUCTURE	.S	Cooro			•	TECHNOLC
	Health & Safety Basic sanitation meets the needs of the poorest areas	0 20	Score 40	60 8	0 100	65.0	Health & Safety Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory Public safety is not a problem					64.8 47.0	A website or App allows residents to easily give away unwanted items Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem Medical services provision is satisfactory					39.4 67.1	CCTV cameras has made residents feel safer A website or App allows residents to effectively monitor air pollution
BB	Finding housing with rent equal to 30% or less of a monthly salary is not a problem					50.4	Arranging medical appointments online has improved access
STRUCTURES	Mobility Traffic congestion is not a problem Public transport is satisfactory					34.9 70.9	Mobility Car-sharing Apps have reduced congestion Apps that direct you to an available parking space have reduced journey time
						70.5	Bicycle hiring has reduced congestion Online scheduling and ticket sales has made public transport easier to use
CCC	Activities						The city provides information on traffic congestion through mobile phones Activities
TECHNOLOGIES	Green spaces are satisfactory Cultural activities (shows, bars, and museums) are satisfactory					47.3 56.3	Online purchasing of tickets to shows and museums has made it easier to attend
	Opportunities (Work & School) Employment finding services are readily available	_		_		53.9	Opportunities (Work & School) Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school Lifelong learning opportunities are provided by local institutions					50.3 54.8	IT skills are taught well in schools Online services provided by the city has made it easier to start a new business
2	Businesses are creating new jobs Minorities feel welcome					45.1 35.6	The current internet speed and reliability meet connectivity needs
	Governance					50.7	Governance
	Information on local government decisions are easily accessible					53.7 33.7	Online public access to city finances has reduced corruption
All ratings range	Corruption of city officials is not an issue of concern Residents contribute to decision making of local government					46.0	Online voting has increased participation An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					44.3	Processing Identification Documents online has reduced waiting times



Oslo



AAA

BACKGROUND INFORMATION



(Eurostat)



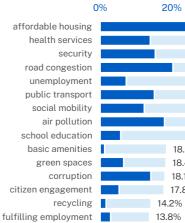
Map tiles by S	tamen Design	CC BY 3.0	Map Data @	OpenStreetMap
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Country	2018	2019	2020	2021	1 yr change
HDI	0.954	0.957	0.959	0.961	+0.002
Life expectancy at birth	82.3	82.4	83.2	83.2	+0.0
Expected years of schooling	18.1	18.1	18.0	18.0	+0.0
Mean years of schooling	12.6	12.9	13.0	13.0	+0.0
GNI per capita (PPP \$)	68,059	66,494	62,573	64,660	+2,087

PRIORITY AREAS

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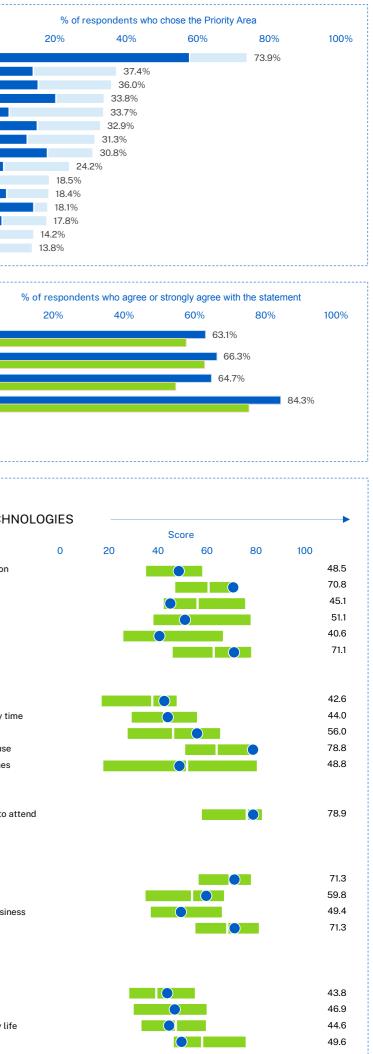
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

AAA						
				LEGEN	ND: MIN	CITY MEAN GROUP MAX
AAA in 2021	 ▲ STR 	UCTURES -			•	TECHNO
			Score		100	
	Health & Safety	0 20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				77.2	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory				78.5	A website or App allows residents to easily give away unwanted items
TACTON	Public safety is not a problem			\bigcirc	69.9	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				61.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				73.7	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	problem			31.5	Arranging medical appointments online has improved access
AAA	Mobility					Mobility
	Traffic congestion is not a problem	_			50.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				68.7	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
Δ						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				79.6	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory				80.7	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				75.2	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				81.1	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				70.4	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs				72.2	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				64.5	
	Governance					Governance
	Information on local government decisions are easily accessible				64.9	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				59.7	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				57.8	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				64.7	Processing Identification Documents online has reduced waiting times



Ottawa



SMART

CITY RATING

A

BACKGROUND INFORMATION



(UN Data)

Norvey Norvey

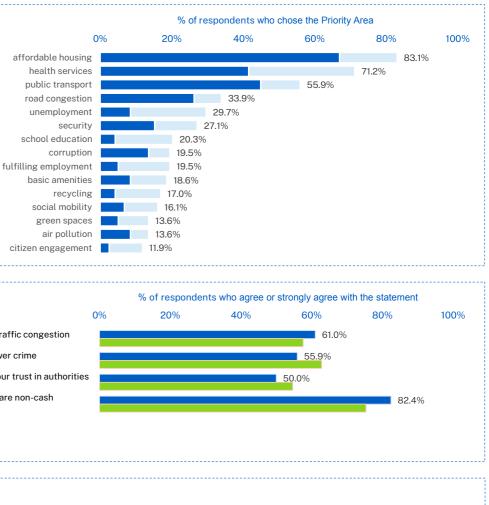
Map tiles by Stamen D	Design CC BY 3.0	Map Data ©	OpenStreetMa
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Country	2018	2019	2020	2021	1 yr change
HDI	0.933	0.937	0.931	0.936	+0.005
Life expectancy at birth	82.1	82.4	82.1	82.7	+0.6
Expected years of schooling	16.2	16.4	16.4	16.4	+0.0
Mean years of schooling	13.8	8.7	8.8	8.8	+0.0
GNI per capita (PPP \$)	18,371	18,486	18,754	19,974	+1,220

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



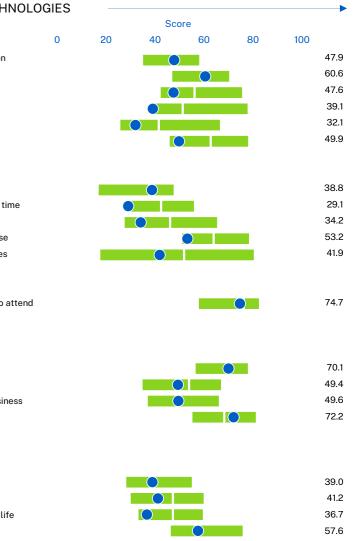
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

A				LEGEN	ND: MIN	TY MEAN GROUP MAX
not in 2021	STF	RUCTURES -				TECHNO
			Score			
	Health & Safety	0 20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				69.6	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory				77.8	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				59.6	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				59.6	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				48.3	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not	a problem			24.9	Arranging medical appointments online has improved access
ΔΔ	Mobility					Mobility
	Traffic congestion is not a problem	_			37.1	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				37.6	Apps that direct you to an available parking space have reduced journey time
					0.10	Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
DDD						The city provides information on traffic congestion through mobile phones
BBB						
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				81.4	Online purchasing of tickets to shows and museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory			\bigcirc	77.5	
	Opportunities (Work & School)					Opportunities (Work & School)
GROUP	Employment finding services are readily available				66.5	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				79.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				75.4	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs				69.5	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				77.0	
	Governance					Governance
	Information on local government decisions are easily accessible				65.8	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				50.6	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government			-	52.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				64.4	Processing Identification Documents online has reduced waiting times



Paris



SMART

CITY RATING

BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.891	0.901	0.898	0.903	+0.005
Life expectancy at birth	82.5	82.7	82.2	82.5	+0.3
Expected years of schooling	15.5	15.6	15.8	15.8	+0.0
Mean years of schooling	11.4	11.5	11.6	11.6	+0.0
GNI per capita (PPP \$)	40,511	47,173	43,048	45,937	+2,889

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

affordable housing security air pollution road congestion public transport unemployment health services recycling green spaces basic amenities fulfilling employment corruption school education social mobility 10.2% citizen engagement 10.0%

ATTITUDES

LEGEND:

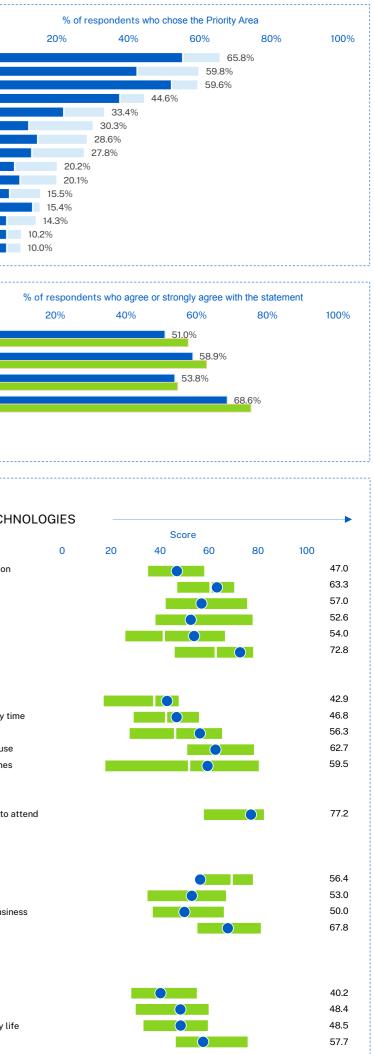
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

BBB						i	·		
						LEGEND	D: MIN		CITY MEAN GROUP MAX
BBB in 2021	STRL	ICTURES		Sco	re				TECHNOL
	Health & Safety	0	20	40	60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas)			49.9	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory							52.9	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem							37.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem							18.5	CCTV cameras has made residents feel safer
I.V.IIIIOO	Medical services provision is satisfactory							57.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a p	oroblem						24.4	Arranging medical appointments online has improved access
BB	Mobility								Mobility
	Traffic congestion is not a problem							23.0	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory							51.1	Apps that direct you to an available parking space have reduced journey time
									Bicycle hiring has reduced congestion
									Online scheduling and ticket sales has made public transport easier to use
Δ									The city provides information on traffic congestion through mobile phones
	Activities								Activities
TECHNOLOGIES	Green spaces are satisfactory				\bigcirc			66.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory							79.1	
	Opportunities (Work & School)								Opportunities (Work & School)
GROUP	Employment finding services are readily available							58.7	Online access to job listings has made it easier to find work
uncon	Most children have access to a good school							59.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions							57.7	Online services provided by the city has made it easier to start a new business
1	Businesses are creating new jobs							52.3	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome			\bigcirc				44.7	
	Governance								Governance
	Information on local government decisions are easily accessible			I				58.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern							39.9	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government							42.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects							46.6	Processing Identification Documents online has reduced waiting times

0%

0%



Philadelphia



BACKGROUND INFORMATION

City	
Population	HDI
1.603,797	0.923

(UN Data)



n Design CC BY 3.0 Map Data © O

Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.926	0.920	0.921	+0.001
Life expectancy at birth	78.9	78.9	77.4	77.2	-0.2
Expected years of schooling	16.3	16.3	16.3	16.3	+0.0
Mean years of schooling	13.4	13.4	13.7	13.7	+0.0
GNI per capita (PPP \$)	56,140	63,826	61,462	64,765	+3,304

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

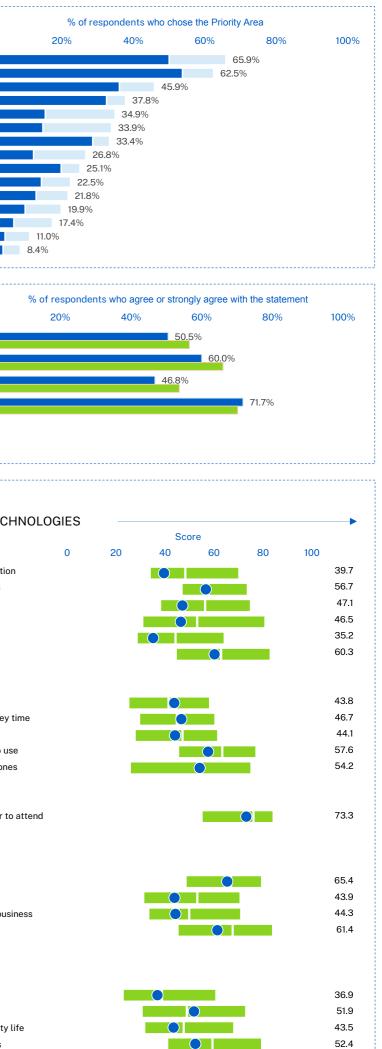
The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% affordable housing security school education road congestion unemployment health services corruption fulfilling employment air pollution basic amenities green spaces public transport recycling citizen engagement social mobility 8.4%

0%

ATTITUDES

2021	sti	RUCTURES				LEGEN	ND: MIN	
-021				Scor	е			
	Health & Safety	0	20	40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas						45.0	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory			(54.0	A website or App allows residents to easily give away unwanted items
TOR	Public safety is not a problem						23.6	Free public wifi has improved access to city services
NGS	Air pollution is not a problem						29.9	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				\bigcirc		60.7	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not	a problem	(32.1	Arranging medical appointments online has improved access
3	Mobility							Mobility
	Traffic congestion is not a problem						22.0	Car-sharing Apps have reduced congestion
TURES	Public transport is satisfactory						49.8	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
3								The city provides information on traffic congestion through mobile phones
	Activities							Activities
LOGIES	Green spaces are satisfactory						51.4	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory						74.8	
	Opportunities (Work & School)							Opportunities (Work & School)
	Employment finding services are readily available						58.3	Online access to job listings has made it easier to find work
DUP	Most children have access to a good school						38.6	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						50.1	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs						54.4	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome						57.7	
	Governance							Governance
	Information on local government decisions are easily accessible						55.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						34.2	Online voting has increased participation
gs range	Residents contribute to decision making of local government						45.2	An online platform where residents can propose ideas has improved city life



Phoenix



CITY RATING

BACKGROUND INFORMATION



(UN Data)

Sat Lava Ca NV 00 KS. M

2018	2019	2020	2021	1 yr change
0.920	0.926	0.920	0.921	+0.001
78.9	78.9	77.4	77.2	-0.2
16.3	16.3	16.3	16.3	+0.0
13.4	13.4	13.7	13.7	+0.0
56,140	63,826	61,462	64,765	+3,304
	0.920 78.9 16.3 13.4	0.920 0.926 78.9 78.9 16.3 16.3 13.4 13.4	0.9200.9260.92078.978.977.416.316.316.313.413.413.7	0.9200.9260.9200.92178.978.977.477.216.316.316.316.313.413.413.713.7

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

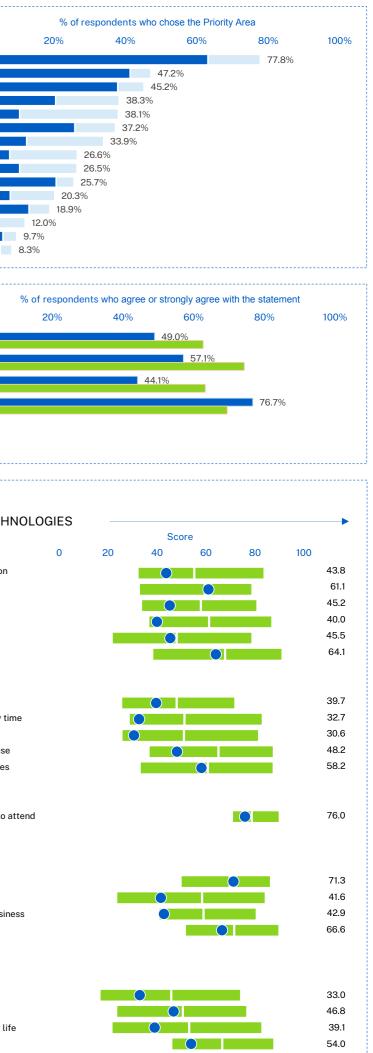
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0% affordable housing road congestion air pollution school education unemployment security health services fulfilling employment basic amenities corruption recycling public transport citizen engagement green spaces 9.7% social mobility 8.3%

0%

ATTITUDES

CC				i	·	
				LEGEND): MIN	CITY MEAN GROUP MAX
CC in 2021	STRUCTURES		C		•	TECHNOLO
	Health & Safety 0	20	Score 40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	1			51.8	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				63.2	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				38.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				30.6	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory				65.9	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem				27.6	Arranging medical appointments online has improved access
CCC	Mobility					Mobility
	Traffic congestion is not a problem				21.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				44.6	Apps that direct you to an available parking space have reduced journey time
	·					Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
CC						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				52.7	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				72.8	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				69.5	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				57.3	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	1			59.3	Online services provided by the city has made it easier to start a new business
_	Businesses are creating new jobs)	64.6	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome				57.2	
	Governance					Governance
	Information on local government decisions are easily accessible				59.7	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				37.9	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				47.2	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				56.6	Processing Identification Documents online has reduced waiting times



Prague



CITY RATING

ΔΔ

BACKGROUND INFORMATION



(Eurostat)

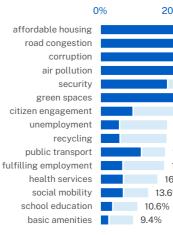


Country	2018	2019	2020	2021	1 yr change
HDI	0.891	0.900	0.892	0.889	-0.003
Life expectancy at birth	79.2	79.4	78.6	77.7	-0.8
Expected years of schooling	16.8	16.8	16.2	16.2	+0.0
Mean years of schooling	12.7	12.7	12.9	12.9	+0.0
GNI per capita (PPP \$)	31,597	38,109	37,551	38,745	+1,194

PRIORITY AREAS

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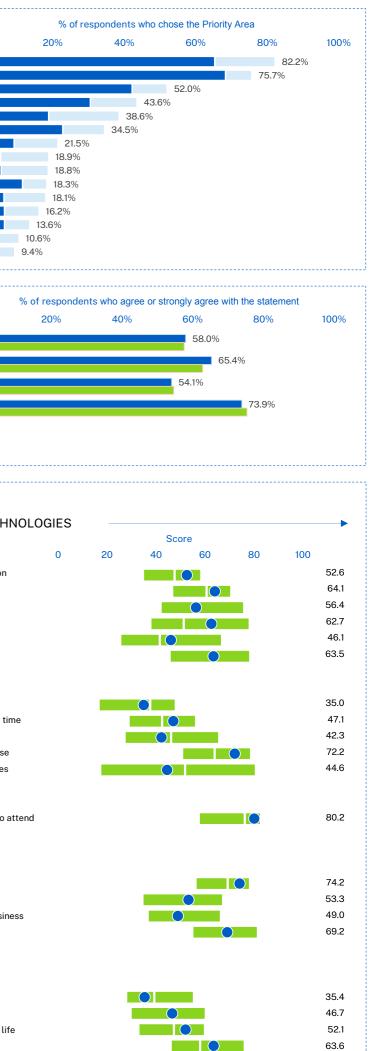
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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

AA						LEGEN	ID: MIN	CITY MEAN GROUP MAX
A in 2021	STRU	CTURES						TECHNO
		<u>,</u>		Score			100	
	Health & Safety	0	20	40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				\bigcirc		68.6	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory				\bigcirc		69.2	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem				\bigcirc		61.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						43.3	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory					\bigcirc	75.8	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a p	roblem	\bigcirc				27.4	Arranging medical appointments online has improved access
A	Mobility							Mobility
	Traffic congestion is not a problem						19.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory						68.5	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
Δ								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						49.3	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory			Ŭ			81.8	
	Opportunities (Work & School)							Opportunities (Work & School)
000110	Employment finding services are readily available						75.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school						74.3	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions						70.0	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs						69.8	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome						58.4	
	Governance							Governance
	Information on local government decisions are easily accessible						63.7	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern						36.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government						50.5	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				\bigcirc		58.4	Processing Identification Documents online has reduced waiting times
[]								



Rabat

CITY RANKING 126 Out of 141 109 out of 118 in 2021

SMART

CITY RATING

С

SMART

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)

sign CC BY 3.0 Map Da

Country	2018	2019	2020	2021	1 yr change
HDI	0.676	0.686	0.679	0.683	+0.004
Life expectancy at birth	76.5	76.7	73.9	74.0	+0.1
Expected years of schooling	13.1	13.7	14.2	14.2	+0.0
Mean years of schooling	5.5	5.6	5.9	5.9	+0.0
GNI per capita (PPP \$)	7,480	7,368	6,882	7,303	+421

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0% unemployment health services affordable housing corruption school education security road congestion fulfilling employment air pollution basic amenities public transport recycling green spaces citizen engagement 14.2% social mobility 10.7%

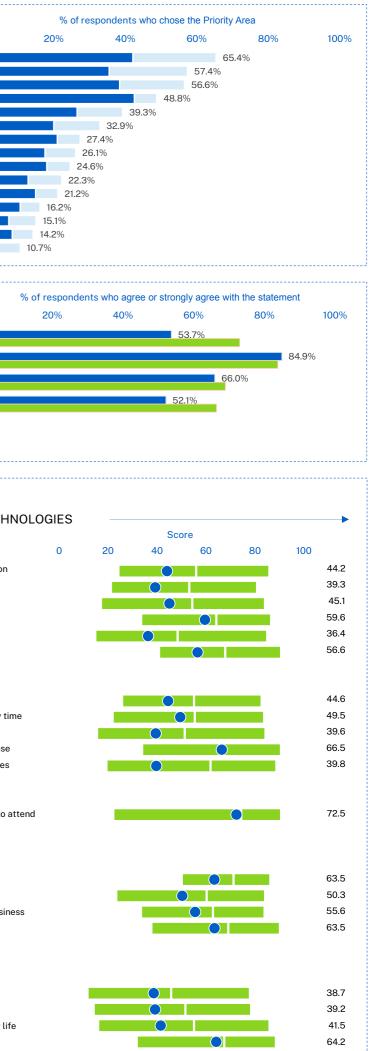
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ATTITUDES

LEGEND: GRO

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

G				LEGEN	JD: MIN	CITY MEAN GROUP MAX
C in 2021	STRU	ICTURES -				TECHNOI
			Score			
	Health & Safety	0 20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				45.8	Online reporting of city maintenance problems provides a speedy solution
ACTOR	Recycling services are satisfactory				44.8	A website or App allows residents to easily give away unwanted items
	Public safety is not a problem				42.7	Free public wifi has improved access to city services
TINGS	Air pollution is not a problem				34.9	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				44.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a p	roblem			38.5	Arranging medical appointments online has improved access
C	Mobility					Mobility
	Traffic congestion is not a problem				29.1	Car-sharing Apps have reduced congestion
UCTURES	Public transport is satisfactory				53.1	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
						The city provides information on traffic congestion through mobile phones
	Activities					Activities
NOLOGIES	Green spaces are satisfactory			\bigcirc	70.9	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				69.5	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				38.9	Online access to job listings has made it easier to find work
OUP	Most children have access to a good school				44.3	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				46.3	Online services provided by the city has made it easier to start a new business
Λ	Businesses are creating new jobs	1			42.0	The current internet speed and reliability meet connectivity needs
Þ.	Minorities feel welcome				60.9	
	Governance					Governance
	Information on local government decisions are easily accessible	1			52.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				24.0	Online voting has increased participation
ngs range	Residents contribute to decision making of local government				29.4	An online platform where residents can propose ideas has improved city life
AA to D	Residents provide feedback on local government projects				42.0	Processing Identification Documents online has reduced waiting times



Reykjavik



SMART

CITY RATING

BACKGROUND INFORMATION



(Eurostat)

Map tiles by Stamen Design CC BY 3.0 Map Data © Oper

Country	2018	2019	2020	2021	1 yr change
HDI	0.959	0.960	0.957	0.959	+0.002
Life expectancy at birth	82.8	82.4	82.6	82.7	+0.1
Expected years of schooling	18.0	18.0	18.0	18.0	+0.0
Mean years of schooling	13.6	13.7	13.8	13.8	+0.0
GNI per capita (PPP \$)	56,492	58,055	54,141	55,782	+1,641

PRIORITY AREAS

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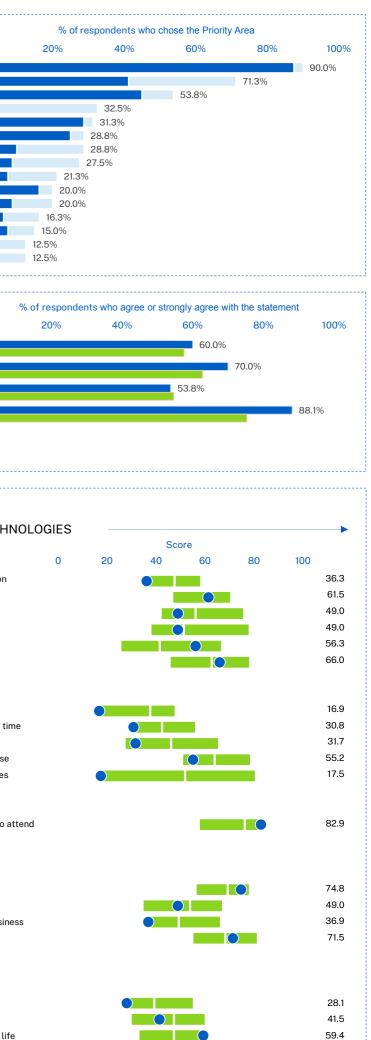
0% affordable housing health services public transport school education corruption road congestion basic amenities security recycling green spaces air pollution social mobility fulfilling employment citizen engagement 12.5% unemployment

0%

ATTITUDES

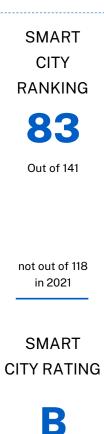
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

BBB	L				;	·	
DDD					LEGEND	D: MIN	CITY MEAN GROUP MAX
not in 2021	STRUC	TURES		Score		•	TECHNO
	Health & Safety	0	20 4	10 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					72.9	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					68.3	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					77.3	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					60.8	CCTV cameras has made residents feel safer
in the second	Medical services provision is satisfactory					49.6	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pro	blem 🔵				4.8	Arranging medical appointments online has improved access
A	Mobility						Mobility
	Traffic congestion is not a problem					34.4	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					28.3	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BBB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					61.7	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory					80.8	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available					77.5	Online access to job listings has made it easier to find work
UNOUF	Most children have access to a good school					81.3	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					77.5	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs					64.0	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome			\bigcirc		59.2	
	Governance						Governance
	Information on local government decisions are easily accessible					53.5	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					33.1	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government			\bigcirc		46.9	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					54.4	Processing Identification Documents online has reduced waiting times



63.8

Riga



not in 2021

FACTOR

RATINGS

B

STRUCTURES

B

TECHNOLOGIES

GROUP

2

All ratings range

from AAA to D

BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.866	0.871	0.871	0.863	-0.008
Life expectancy at birth	75.0	75.5	75.5	73.6	-1.9
Expected years of schooling	16.2	16.2	16.2	16.2	+0.0
Mean years of schooling	13.2	13.3	13.3	13.3	+0.0
GNI per capita (PPP \$)	29,895	31,059	31,102	32,803	+1,701

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% affordable housing corruption road congestion unemployment school education public transport security citizen engagement air pollution basic amenities green spaces social mobility fulfilling employment health services 11.7%

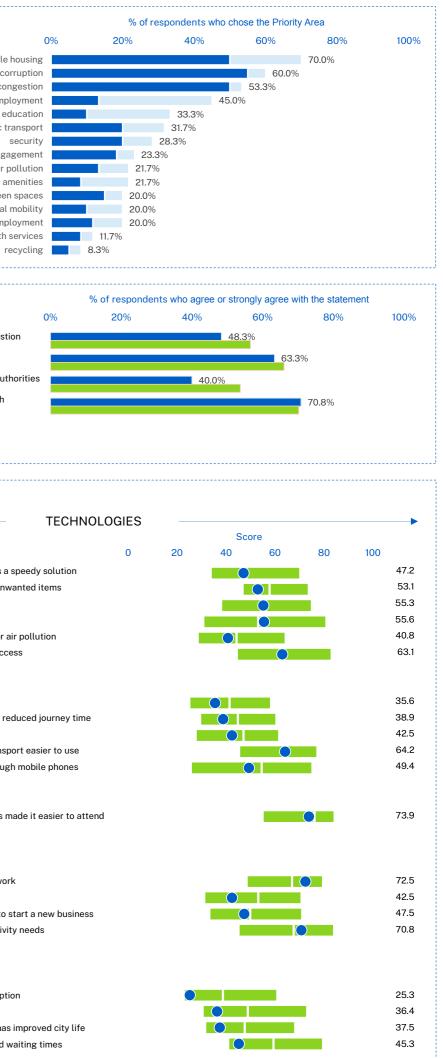
0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

STRUCTURES						<pre>TECHNOLO</pre>
STRUCTURES		Sc	ore			
Health & Safety 0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas					50.0	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory					62.2	A website or App allows residents to easily give away unwanted items
Public safety is not a problem					58.9	Free public wifi has improved access to city services
Air pollution is not a problem)		48.1	CCTV cameras has made residents feel safer
ledical services provision is satisfactory					46.4	A website or App allows residents to effectively monitor air pollution
inding housing with rent equal to 30% or less of a monthly salary is not a problem					34.2	Arranging medical appointments online has improved access
Mobility						Mobility
raffic congestion is not a problem					29.2	Car-sharing Apps have reduced congestion
ublic transport is satisfactory		·			54.2	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
						The city provides information on traffic congestion through mobile phones
Activities						Activities
reen spaces are satisfactory					58.3	Online purchasing of tickets to shows and museums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory					66.4	
Opportunities (Work & School)						Opportunities (Work & School)
Employment finding services are readily available					66.1	Online access to job listings has made it easier to find work
Nost children have access to a good school			\bigcirc		60.3	IT skills are taught well in schools
ifelong learning opportunities are provided by local institutions			\bigcirc		57.8	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs		(50.0	The current internet speed and reliability meet connectivity needs
Vinorities feel welcome	I	\bigcirc			41.7	
Governance						Governance
nformation on local government decisions are easily accessible					44.4	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern					19.4	Online voting has increased participation
Residents contribute to decision making of local government					25.8	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects					34.4	Processing Identification Documents online has reduced waiting times



Rio de Janeiro



BACKGROUND INFORMATION



13,634,274



(UN World Urbanisation Prospects 2022 estimate)

0.783

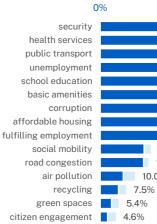


2018 2019 2021 Country 2020 1 yr change 0.764 0.766 0.758 0.754 -0.004 HDI Life expectancy at birth 75.1 75.3 74.0 72.8 -1.3 Expected years of schooling 15.7 15.6 15.6 15.6 +0.0 +0.0 Mean years of schooling 8.0 10.6 10.9 10.9 GNI per capita (PPP \$) 21,972 23,261 22,286 24,563 +2,277

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

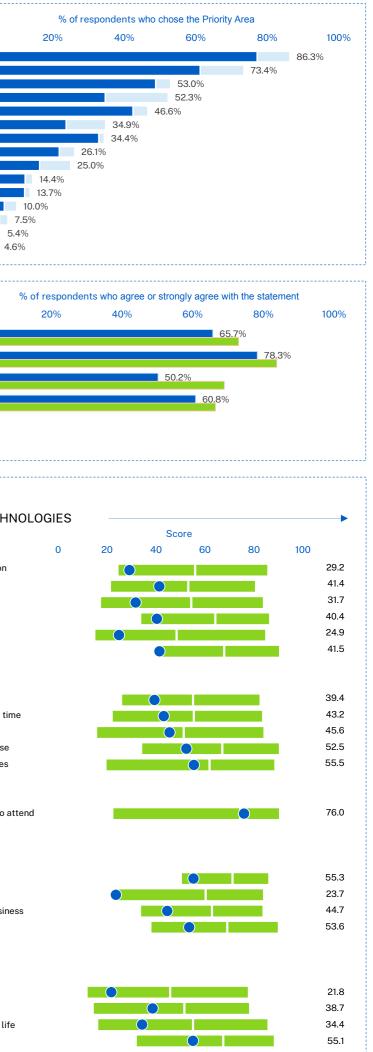
The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



0%

ATTITUDES

	,			
D			LEGEND: MIN	ITY MEAN GROUP MAX
D in 2021	STRUCTURES —		•	TECHNOL
		Score	00 100	
	Health & Safety 0 20	40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas		30.1	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory		36.1	A website or App allows residents to easily give away unwanted items
ACTON	Public safety is not a problem		12.8	Free public wifi has improved access to city services
ATINGS	Air pollution is not a problem		26.2	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory		25.8	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem		21.0	Arranging medical appointments online has improved access
D	Mobility			Mobility
_	Traffic congestion is not a problem		12.7	Car-sharing Apps have reduced congestion
UCTURES	Public transport is satisfactory		14.9	Apps that direct you to an available parking space have reduced journey time
				Bicycle hiring has reduced congestion
				Online scheduling and ticket sales has made public transport easier to use
				The city provides information on traffic congestion through mobile phones
	Activities			Activities
HNOLOGIES	Green spaces are satisfactory		54.9	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory		61.8	
	Opportunities (Work & School)			Opportunities (Work & School)
	Employment finding services are readily available		41.4	Opportunities (WOLK & SCHOOL) Online access to job listings has made it easier to find work
ROUP			18.7	
	Most children have access to a good school		31.5	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions		35.9	Online services provided by the city has made it easier to start a new business
4	Businesses are creating new jobs			The current internet speed and reliability meet connectivity needs
	Minorities feel welcome		21.4	
	Governance			Governance
	Information on local government decisions are easily accessible		37.6	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		12.7	Online voting has increased participation
tings range	Residents contribute to decision making of local government		18.7	An online platform where residents can propose ideas has improved city life
AAA to D	Residents provide feedback on local government projects		24.8	Processing Identification Documents online has reduced waiting times



Riyadh



SMART

CITY RATING

BB

SMART

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)

Residents provide feedback on local government projects



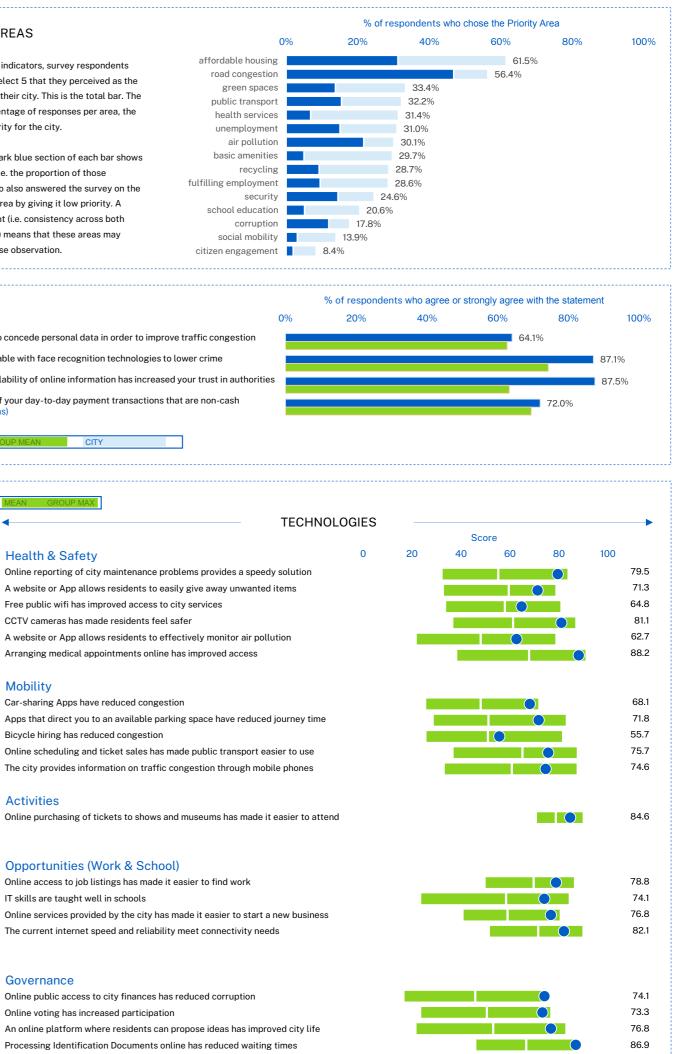
n CC BY 3.0 Map Data ©

Country	2018	2019	2020	2021	1 yr change
HDI	0.865	0.873	0.870	0.875	+0.005
Life expectancy at birth	77.2	77.3	76.2	76.9	+0.7
Expected years of schooling	15.7	16.0	16.1	16.1	+0.0
Mean years of schooling	10.6	8.3	8.3	8.3	+0.0
GNI per capita (PPP \$)	5,072	5,307	5,601	5,745	+143

PRIORITY AREAS

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ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

BB			
		LEGEND: MIN CI	ITY MEAN GROUP MAX.
B in 2021	STRUCTURES	•	TECHNOLO
	Score		
	neattine outery	30 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	84.9	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory	72.2	A website or App allows residents to easily give away unwanted items
TACTOR	Public safety is not a problem	49.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	36.0	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	81.4	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	56.3	Arranging medical appointments online has improved access
B	Mobility		Mobility
	Traffic congestion is not a problem	27.3	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	60.8	Apps that direct you to an available parking space have reduced journey time
			Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
BB			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	69.2	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	77.2	
	Opportunities (Work & School)		Opportunities (Work & School)
	Employment finding services are readily available	61.3	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	78.6	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	72.8	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	68.6	The current internet speed and reliability meet connectivity needs
- 3	Minorities feel welcome	68.6	
	Governance		Governance
	Information on local government decisions are easily accessible	82.7	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	53.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	60.7	An online platform where residents can propose ideas has improved city life

63.0

All ratings range from AAA to D

Rome



SMART

CITY RATING

CCC

CCC in 2021

FACTOR

RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

2

BACKGROUND INFORMATION

Residents contribute to decision making of local government

Residents provide feedback on local government projects

City	
Population	HDI
5,730,399	0.917

(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.883	0.892	0.889	0.895	+0.006
Life expectancy at birth	83.4	83.5	82.4	82.9	+0.4
Expected years of schooling	16.2	16.1	16.2	16.2	+0.0
Mean years of schooling	10.2	10.4	10.7	10.7	+0.0
GNI per capita (PPP \$)	36,141	42,776	39,901	42,840	+2,939

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0% recycling public transport road congestion basic amenities air pollution security unemployment fulfilling employment corruption affordable housing social mobility green spaces school education 10.1% health services 9.8% citizen engagement 7.6%

0%

ATTITUDES

LEGEND:

22.0

31.3

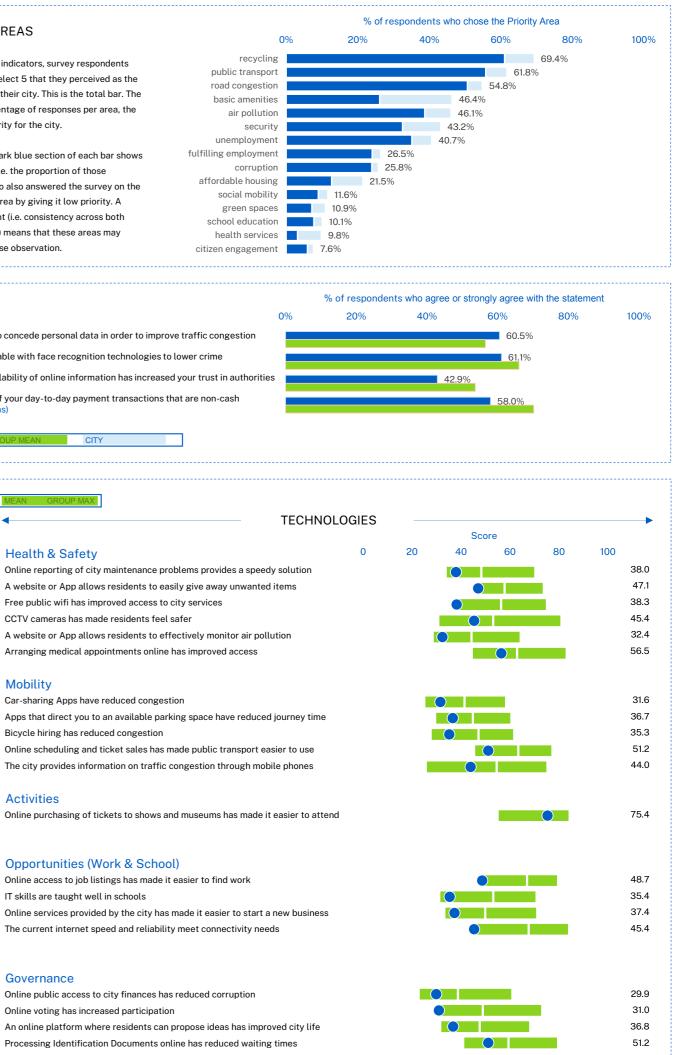
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

Processing Identification Documents online has reduced waiting times

CITY

STRUC	TURES					•	
51100	IONEO		Sco	ore			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						41.5	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory						21.7	A website or App allows residents to easily give away unwanted items
Public safety is not a problem			\bigcirc			33.2	Free public wifi has improved access to city services
Air pollution is not a problem						22.9	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						42.6	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a prob	olem					41.2	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						13.0	Car-sharing Apps have reduced congestion
Public transport is satisfactory						18.7	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory						54.2	Online purchasing of tickets to shows and museums has made it easier to atten
Cultural activities (shows, bars, and museums) are satisfactory			I			69.2	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						20.1	Online access to job listings has made it easier to find work
Most children have access to a good school						44.0	IT skills are taught well in schools
ifelong learning opportunities are provided by local institutions						36.6	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs						24.4	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						28.4	
Governance							Governance
nformation on local government decisions are easily accessible						35.2	Online public access to city finances has reduced corruption
						22.2	Online voting has increased participation

All ratings range from AAA to D



Rotterdam



BACKGROUND INFORMATION



SMART CITY RATING



BB in 2021

FACTOR RATINGS

STRUCTURES

A

GROUP



Population HDI 3,726,050 0.941 (Eurostat)



Country HDI	2018 0.934	2019 0.944	2020 0.939	2021 0.941	1 yr change +0.002
Life expectancy at birth	82.1	82.3	81.6	81.7	+0.0
Expected years of schooling	18.0	18.5	18.0	18.0	+0.0
Mean years of schooling	12.2	12.4	12.6	12.6	+0.0
GNI per capita (PPP \$)	50,013	57,707	53,504	55,979	+2,476

PRIORITY AREAS

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0% affordable housing security unemployment health services air pollution road congestion basic amenities school education green spaces public transport recycling citizen engagement fulfilling employment social mobility corruption

0%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

٩	TRUCTURES						TECHNO
C C	INCOTONEO		Sco	ore			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						60.6	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory						64.8	A website or App allows residents to easily give away unwanted items
Public safety is not a problem			\bigcirc			47.6	Free public wifi has improved access to city services
Air pollution is not a problem						36.7	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						71.8	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is needed as the set of the set	ot a problem					28.0	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						32.2	Car-sharing Apps have reduced congestion
Public transport is satisfactory						69.5	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory						56.4	Online purchasing of tickets to shows and museums has made it easier to atten
Cultural activities (shows, bars, and museums) are satisfactory						75.3	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available				\bigcirc		68.3	Online access to job listings has made it easier to find work
Most children have access to a good school						71.1	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						60.4	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs				\bigcirc		62.3	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						58.6	
Governance							Governance
Information on local government decisions are easily accessible						58.8	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						49.0	Online voting has increased participation
Residents contribute to decision making of local government						50.5	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects						57.4	Processing Identification Documents online has reduced waiting times



San Francisco



CITY RATING

BB

BACKGROUND INFORMATION



(UN Data)

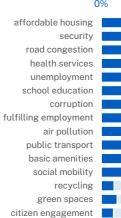
Seco .Denv 8 CA · Abugaro AZ Los Angeles NM San Dego S Tijuana Map tiles by Sta

Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.926	0.920	0.921	+0.001
Life expectancy at birth	78.9	78.9	77.4	77.2	-0.2
Expected years of schooling	16.3	16.3	16.3	16.3	+0.0
Mean years of schooling	13.4	13.4	13.7	13.7	+0.0
GNI per capita (PPP \$)	56,140	63,826	61,462	64,765	+3,304

PRIORITY AREAS

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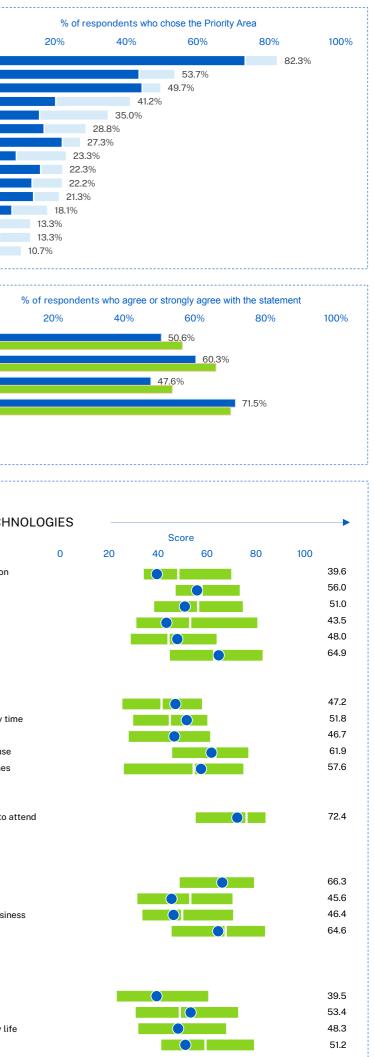
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

BB		[TY MEAN GROUP MAX
B in 2021	STRUCTURES			TECHNOLC
		Score		
	Health & Safety 0 20	0 40 60 8	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas		41.8	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory		61.5	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem		28.0	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem		43.1	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory		58.5	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem		21.7	Arranging medical appointments online has improved access
BB	Mobility			Mobility
	Traffic congestion is not a problem		20.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory		49.1	Apps that direct you to an available parking space have reduced journey time
				Bicycle hiring has reduced congestion
				Online scheduling and ticket sales has made public transport easier to use
BB				The city provides information on traffic congestion through mobile phones
	Activities			Activities
TECHNOLOGIES	Green spaces are satisfactory		63.3	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory		76.2	
	Opportunities (Work & School)			Opportunities (Work & School)
	Employment finding services are readily available		59.2	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school		52.6	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions		60.5	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs		60.0	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome		59.3	
	Governance			Governance
	Information on local government decisions are easily accessible		63.5	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		38.1	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government		52.9	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects		62.1	Processing Identification Documents online has reduced waiting times

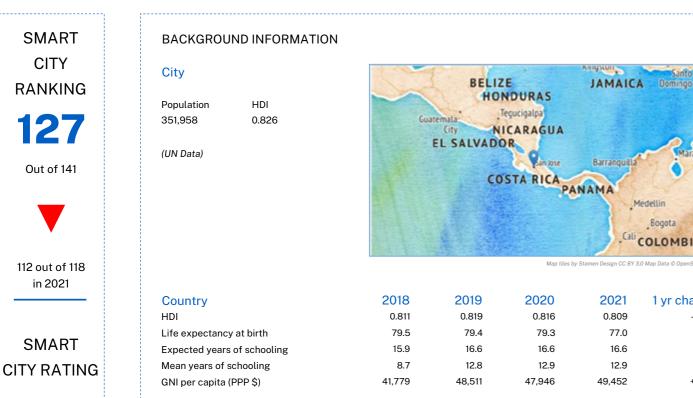
0%

0%



San José

C



PRIORITY AREAS

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0% security corruption unemployment road congestion affordable housing fulfilling employment health services basic amenities public transport air pollution citizen engagement recycling school education social mobility 12.0% green spaces 8.5%

ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

D in 2021		CTURES				LEGEN	ND: MI		
DITECT		TONES		Sco	re				
	Health & Safety	0	20	40	60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas							47.5	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory							50.6	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem							27.7	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem							38.3	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				\bigcirc			61.3	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pr	oblem						29.2	Arranging medical appointments online has improved access
CC	Mobility								Mobility
	Traffic congestion is not a problem							13.8	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory							30.8	Apps that direct you to an available parking space have reduced journey time
									Bicycle hiring has reduced congestion
									Online scheduling and ticket sales has made public transport easier to use
C									The city provides information on traffic congestion through mobile phones
	Activities								Activities
TECHNOLOGIES	Green spaces are satisfactory							61.8	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory							65.2	
	Opportunities (Work & School)								Opportunities (Work & School)
	Employment finding services are readily available							53.4	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school							51.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions							51.8	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs							40.8	The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome							38.4	
	Governance								Governance
	Information on local government decisions are easily accessible							41.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern		\bigcirc					14.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government							23.7	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects							29.6	Processing Identification Documents online has reduced waiting times

Santo

Maracalho

1 yr change

-0.007

-2.3

+0.0

+0.0

+1,506

Medellin Bogota COLOMBIA

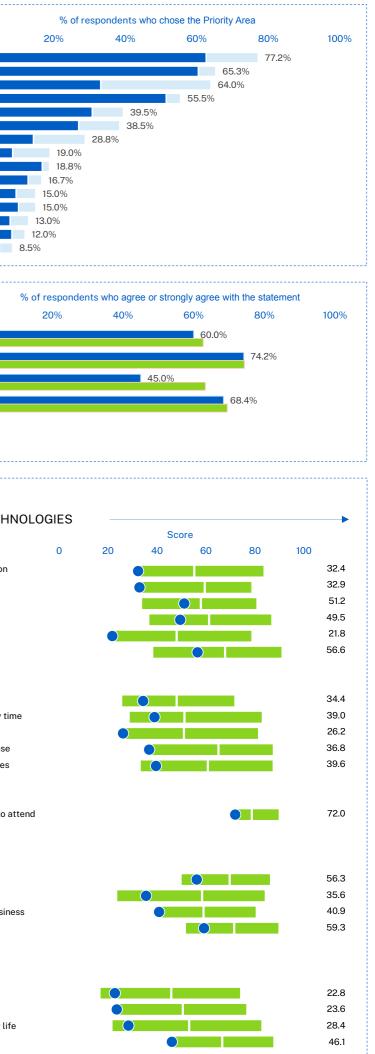
77.0

16.6

12.9

V

0%



Sana'a



D

not in 2021

FACTOR

RATINGS

D

STRUCTURES

D

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



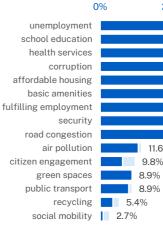
p tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetN

Country	2018	2019	2020	2021	1 yr change
HDI	0.459	0.461	0.460	0.455	-0.005
Life expectancy at birth	64.6	65.1	64.7	63.8	-0.9
Expected years of schooling	9.1	9.1	9.1	9.1	+0.0
Mean years of schooling	3.2	3.2	3.2	3.2	+0.0
GNI per capita (PPP \$)	1,342	1,350	1,371	1,314	-56

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



0%

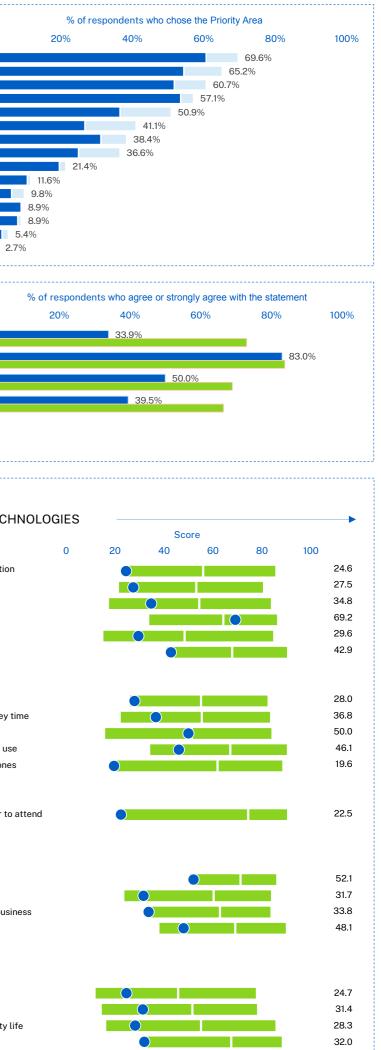
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

STRUCTURES	s _					
3110010112	0	So	ore			
Health & Safety 0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas					38.5	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory					34.4	A website or App allows residents to easily give away unwanted items
Public safety is not a problem					34.1	Free public wifi has improved access to city services
Air pollution is not a problem					16.2	CCTV cameras has made residents feel safer
Medical services provision is satisfactory					22.6	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a problem					28.1	Arranging medical appointments online has improved access
Mobility						Mobility
Traffic congestion is not a problem					19.3	Car-sharing Apps have reduced congestion
Public transport is satisfactory					35.7	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
						The city provides information on traffic congestion through mobile phones
Activities						Activities
Green spaces are satisfactory					29.9	Online purchasing of tickets to shows and museums has made it easier to atter
Cultural activities (shows, bars, and museums) are satisfactory					33.6	
Opportunities (Work & School)						Opportunities (Work & School)
Employment finding services are readily available					19.6	Online access to job listings has made it easier to find work
Most children have access to a good school					25.1	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions					19.3	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs					23.2	The current internet speed and reliability meet connectivity needs
Minorities feel welcome					45.4	
Governance						Governance
Information on local government decisions are easily accessible					28.1	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern					16.8	Online voting has increased participation
Residents contribute to decision making of local government					23.7	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects					22.6	Processing Identification Documents online has reduced waiting times



Santiago



C

C in 2021

FACTOR

RATINGS

С

STRUCTURES

С

TECHNOLOGIES

GROUP

BACKGROUND INFORMATION

Residents contribute to decision making of local government

Residents provide feedback on local government projects



(UN Data)



Country	2018	2019	2020	2021	1 yr change
HDI	0.847	0.851	0.852	0.855	+0.003
Life expectancy at birth	80.0	80.2	79.4	78.9	-0.4
Expected years of schooling	16.5	16.4	16.7	16.7	+0.0
Mean years of schooling	10.4	10.6	10.9	10.9	+0.0
GNI per capita (PPP \$)	21,972	23,261	22,286	24,563	+2,277

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.

0% security health services affordable housing unemployment fulfilling employment air pollution corruption school education public transport basic amenities recycling green spaces social mobility road congestion citizen engagement 9.5%

0%

ATTITUDES

LEGEND:

23.8

35.6

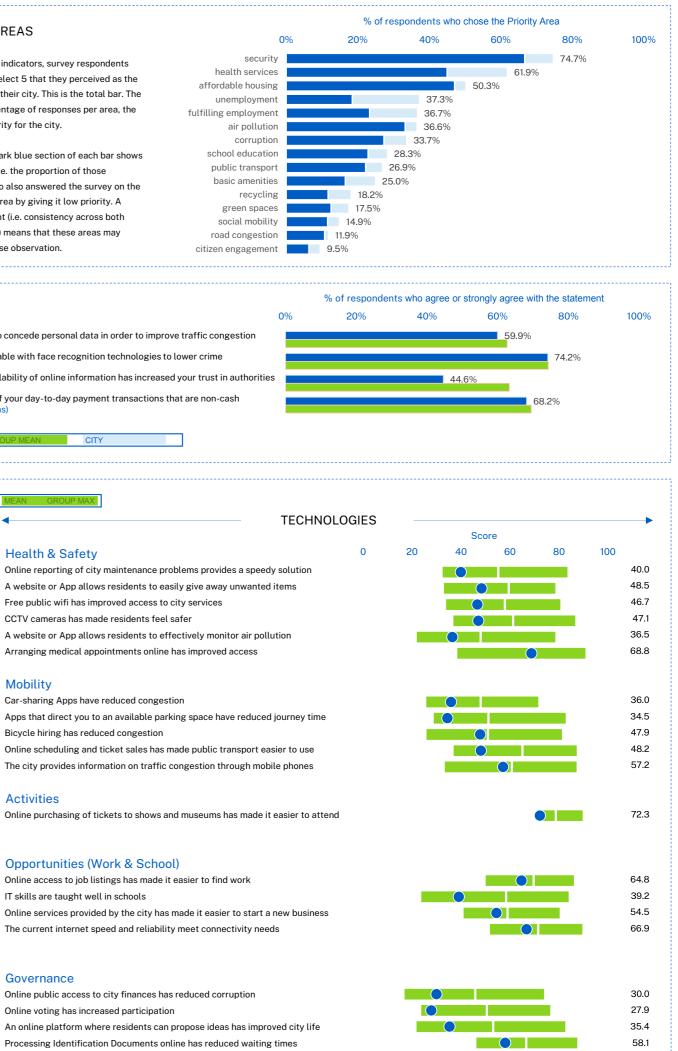
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

Processing Identification Documents online has reduced waiting times

CITY

					LEGEN	ND: MIN	MEAN GROUP MAX
< STRUCTUR	RES						TECHNO
			Sc	ore			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas			\bigcirc			36.1	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory			\bigcirc			40.9	A website or App allows residents to easily give away unwanted items
Public safety is not a problem						17.3	Free public wifi has improved access to city services
Air pollution is not a problem						15.8	CCTV cameras has made residents feel safer
Medical services provision is satisfactory			\bigcirc			36.2	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a problem		\bigcirc				14.9	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						17.4	Car-sharing Apps have reduced congestion
Public transport is satisfactory			\bigcirc			37.3	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory			(49.7	Online purchasing of tickets to shows and museums has made it easier to att
Cultural activities (shows, bars, and museums) are satisfactory				\bigcirc		57.0	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available				\bigcirc		56.1	Online access to job listings has made it easier to find work
Most children have access to a good school			\bigcirc			31.4	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions			\bigcirc			35.4	Online services provided by the city has made it easier to start a new busines
Businesses are creating new jobs						38.8	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						29.2	
Governance							Governance
Information on local government decisions are easily accessible						43.6	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						29.1	Online voting has increased participation

All ratings range from AAA to D



Sao Paulo



CITY RATING

D

BACKGROUND INFORMATION





(UN World Urbanisation Prospects 2022 estimate)



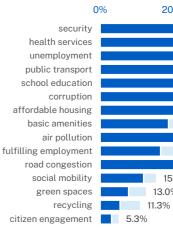
sign CC BY 3.0 Map Data © Ope

Country	2018	2019	2020	2021	1 yr change
HDI	0.764	0.766	0.758	0.754	-0.004
Life expectancy at birth	75.1	75.3	74.0	72.8	-1.3
Expected years of schooling	15.7	15.6	15.6	15.6	+0.0
Mean years of schooling	8.0	10.6	10.9	10.9	+0.0
GNI per capita (PPP \$)	21,972	23,261	22,286	24,563	+2,277

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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0%

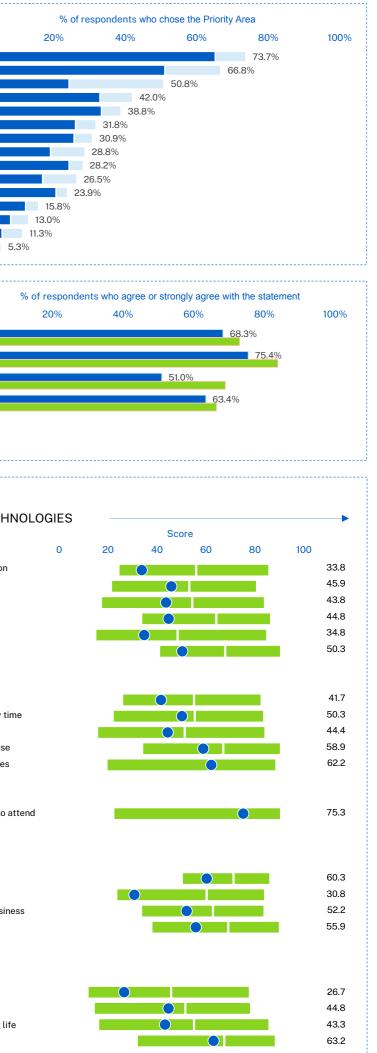
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

ν				LEGEN	ND: MIN	MEAN GROUP MAX
D in 2021		s —				TECHNOI
			Score			
	Health & Safety	0 20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				38.1	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory				45.0	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				16.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				17.6	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				33.2	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem				21.8	Arranging medical appointments online has improved access
D	Mobility					Mobility
	Traffic congestion is not a problem				13.2	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				25.1	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
С						The city provides information on traffic congestion through mobile phones
•	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				49.3	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory				66.9	
	Opportunities (Work & School)					Opportunities (Work & School)
GROUP	Employment finding services are readily available				51.8	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				26.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				41.6	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs				40.9	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome				24.2	
	Governance					Governance
	Information on local government decisions are easily accessible				40.4	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				17.6	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				26.5	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				32.2	Processing Identification Documents online has reduced waiting times



Seattle



BACKGROUND INFORMATION

HDI
0.940

(UN Data)

SMART **CITY RATING**



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BBB in 2021
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FACTOR RATINGS

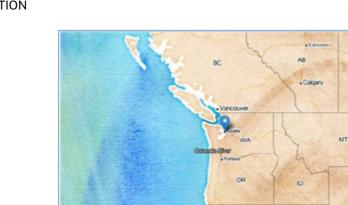
BB STRUCTURES

B TECHNOLOGIES

GROUP



All ratings range from AAA to D



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SK

Canada

2018	2019	2020	2021	1 yr change
0.920	0.926	0.920	0.921	+0.001
78.9	78.9	77.4	77.2	-0.2
16.3	16.3	16.3	16.3	+0.0
13.4	13.4	13.7	13.7	+0.0
56,140	63,826	61,462	64,765	+3,304
	0.920 78.9 16.3 13.4	0.920 0.926 78.9 78.9 16.3 16.3 13.4 13.4	0.9200.9260.92078.978.977.416.316.316.313.413.413.7	0.9200.9260.9200.92178.978.977.477.216.316.316.316.313.413.413.713.7

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

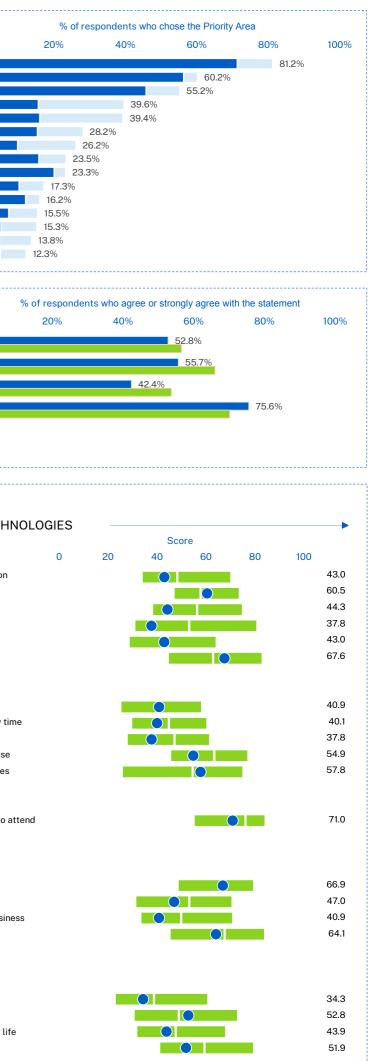
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0% affordable housing road congestion security unemployment health services school education fulfilling employment public transport corruption basic amenities air pollution green spaces recycling citizen engagement social mobility

0%

ATTITUDES

▲	STRUCTURES							<pre>TECI</pre>
			Sco	ore			-	
Health & Safety	0	20	40	60	80	100		Health & Safety
Basic sanitation meets the needs of the poorest areas							43.1	Online reporting of city maintenance problems provides a speedy solutio
Recycling services are satisfactory							71.0	A website or App allows residents to easily give away unwanted items
Public safety is not a problem							27.0	Free public wifi has improved access to city services
Air pollution is not a problem							43.6	CCTV cameras has made residents feel safer
Medical services provision is satisfactory				\bigcirc			64.1	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is	not a problem						18.9	Arranging medical appointments online has improved access
Mobility								Mobility
Traffic congestion is not a problem							15.8	Car-sharing Apps have reduced congestion
Public transport is satisfactory							54.4	Apps that direct you to an available parking space have reduced journey
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to us
								The city provides information on traffic congestion through mobile phone
Activities								Activities
Green spaces are satisfactory				\bigcirc			64.3	Online purchasing of tickets to shows and museums has made it easier to
Cultural activities (shows, bars, and museums) are satisfactory							78.1	
Opportunities (Work & School)								Opportunities (Work & School)
Employment finding services are readily available				\bigcirc			64.9	Online access to job listings has made it easier to find work
Most children have access to a good school				\bigcirc			61.2	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions							63.1	Online services provided by the city has made it easier to start a new bus
Businesses are creating new jobs							61.6	The current internet speed and reliability meet connectivity needs
Minorities feel welcome							61.2	
Governance								Governance
Information on local government decisions are easily accessible							63.8	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern							41.5	Online voting has increased participation
Residents contribute to decision making of local government							49.5	An online platform where residents can propose ideas has improved city
Residents provide feedback on local government projects							61.1	Processing Identification Documents online has reduced waiting times



Seoul



SMART

CITY RATING

AA

BACKGROUND INFORMATION

HDI
0.952

(UN Data)



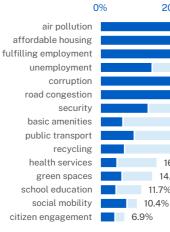
esign CC BY 3.0 Map Data © Op

2018	2019	2020	2021	1 yr change
0.906	0.916	0.922	0.925	+0.003
82.8	83.0	83.6	83.7	+0.1
16.4	16.5	16.5	16.5	+0.0
12.2	12.2	12.5	12.5	+0.0
36,757	43,044	42,698	44,501	+1,803
	0.906 82.8 16.4 12.2	0.906 0.916 82.8 83.0 16.4 16.5 12.2 12.2	0.9060.9160.92282.883.083.616.416.516.512.212.212.5	0.9060.9160.9220.92582.883.083.683.716.416.516.516.512.212.212.512.5

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

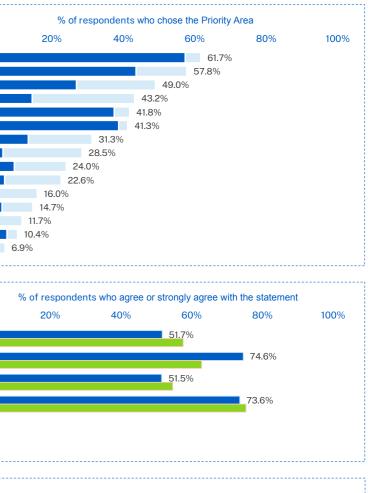
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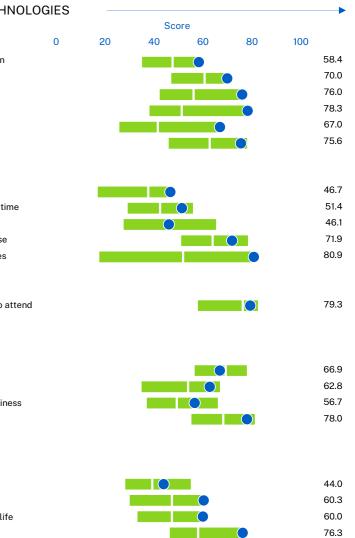


0%

ATTITUDES

AA				LEGEN	ND: MIN OC	MEAN GROUP MAX
AA in 2021	STRL	ICTURES				TECHNOL
			Score			
	Health & Safety	0 2	0 40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				72.5	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory			\bigcirc	70.4	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				65.4	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				14.8	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				75.4	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a p	problem			31.3	Arranging medical appointments online has improved access
BBB	Mobility					Mobility
	Traffic congestion is not a problem				21.9	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				71.8	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
AAA						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				56.4	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory				69.3	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				63.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				57.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				63.5	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs				48.3	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				32.2	
	Governance					Governance
	Information on local government decisions are easily accessible				63.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				28.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				52.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				50.5	Processing Identification Documents online has reduced waiting times





Shanghai



SMART

CITY RATING

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



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2018	2019	2020	2021	1 yr change
0.758	0.761	0.764	0.768	+0.004
76.7	76.9	78.1	78.2	+0.1
13.9	14.0	14.2	14.2	+0.0
7.9	8.1	7.6	7.6	+0.0
16,127	16,057	16,201	17,504	+1,303
	0.758 76.7 13.9 7.9	0.758 0.761 76.7 76.9 13.9 14.0 7.9 8.1	0.758 0.761 0.764 76.7 76.9 78.1 13.9 14.0 14.2 7.9 8.1 7.6	0.7580.7610.7640.76876.776.978.178.213.914.014.214.27.98.17.67.6

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

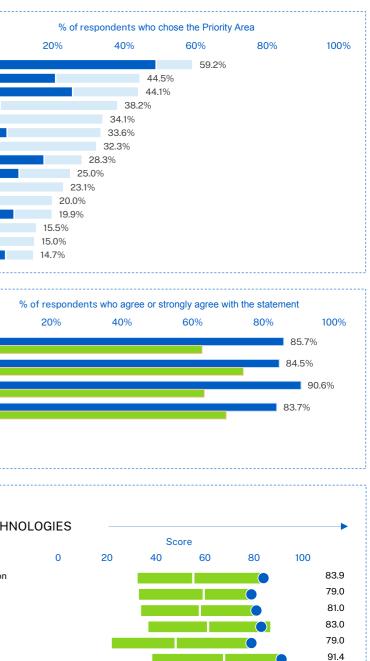
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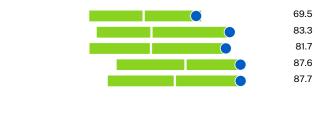
0% road congestion affordable housing air pollution fulfilling employment basic amenities health services social mobility corruption public transport unemployment school education security recycling green spaces citizen engagement

0%

ATTITUDES

BB	L	······	
DD		LEGEND: MIN	CITY MEAN GROUP MAX
BB in 2021	STRUCTURES		TECHNOLO
	Score		
	Health & Safety 0 20 40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	81.6	Online reporting of city maintenance problems provides a speedy solution
FACTOR	Recycling services are satisfactory	79.9	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	69.7	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	49.7	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory	78.9	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	54.6	Arranging medical appointments online has improved access
BB	Mobility		Mobility
	Traffic congestion is not a problem	35.4	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	64.9	Apps that direct you to an available parking space have reduced journey time
			Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
BB			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	78.6	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	85.2	
	Opportunities (Work & School)		Opportunities (Work & School)
	Employment finding services are readily available	83.3	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	76.6	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	73.8	Online services provided by the city has made it easier to start a new business
_	Businesses are creating new jobs	80.4	The current internet speed and reliability meet connectivity needs
3	Minorities feel welcome	79.0	
	Governance		Governance
	Information on local government decisions are easily accessible	78.5	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	56.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	64.9	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	73.2	Processing Identification Documents online has reduced waiting times











Shenzhen



CITY RATING

BACKGROUND INFORMATION



Population HDI 1,283,133 0.799

(UN World Urbanisation Prospects 2022 estimate)



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Country	2018	2019	2020	2021	1 yr change
HDI	0.758	0.761	0.764	0.768	+0.004
Life expectancy at birth	76.7	76.9	78.1	78.2	+0.1
Expected years of schooling	13.9	14.0	14.2	14.2	+0.0
Mean years of schooling	7.9	8.1	7.6	7.6	+0.0
GNI per capita (PPP \$)	16,127	16,057	16,201	17,504	+1,303

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

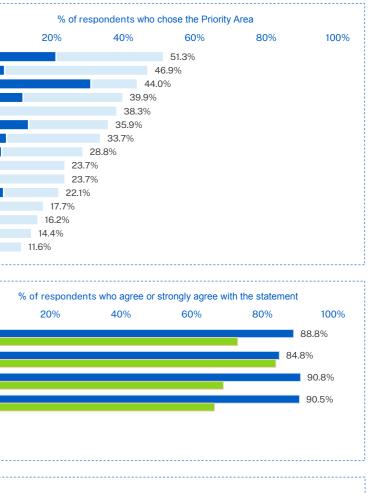
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0% affordable housing fulfilling employment road congestion air pollution social mobility corruption health services citizen engagement unemployment basic amenities school education public transport security recycling green spaces 11.6%

0%

ATTITUDES

CCC					;	·		
					LEGEND	D: MIN		MEAN GROUP MAX
CCC in 2021	 ▲ STRL 	JCTURES		Score				TECHNOI
	Health & Safety	0	20	40 60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas						85.7	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory						82.4	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				\bigcirc		76.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem						68.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory						82.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	problem					67.2	Arranging medical appointments online has improved access
CCC	Mobility							Mobility
	Traffic congestion is not a problem						53.4	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory						74.5	Apps that direct you to an available parking space have reduced journey time
								Bicycle hiring has reduced congestion
								Online scheduling and ticket sales has made public transport easier to use
CCC								The city provides information on traffic congestion through mobile phones
	Activities							Activities
TECHNOLOGIES	Green spaces are satisfactory						83.4	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory						84.8	
	Opportunities (Work & School)							Opportunities (Work & School)
	Employment finding services are readily available						84.2	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school						77.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				\bigcirc		70.2	Online services provided by the city has made it easier to start a new business
Λ	Businesses are creating new jobs						82.5	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome						81.5	
	Governance							Governance
	Information on local government decisions are easily accessible						76.9	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern			\bigcirc			63.6	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government						67.6	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						74.0	Processing Identification Documents online has reduced waiting times



NOLOGIES Score 100 0 20 40 60 80 84.1 80.4 84.1 83.5 80.4 90.0 72.9 83.8 82.9 90.7 88.8 90.1 tend 86.3 83.5 83.9 SS 90.2 75.0 77.6 83.4 86.5

Singapore



BACKGROUND INFORMATION



(UN Data)

CITY RATING



A in 2021

FACTOR RATINGS

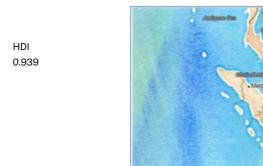
A STRUCTURES

A TECHNOLOGIES

GROUP



All ratings range from AAA to D





Design CC BY 3.0 Map Data ©

Country	2018	2019	2020	2021	1 yr change
HDI	0.935	0.938	0.939	0.939	+0.000
Life expectancy at birth	83.5	83.6	82.9	82.8	-0.1
Expected years of schooling	16.3	16.4	16.5	16.5	+0.0
Mean years of schooling	11.5	11.6	11.9	11.9	+0.0
GNI per capita (PPP \$)	83,793	88,155	81,035	90,919	+9,884

PRIORITY AREAS

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0% affordable housing fulfilling employment unemployment health services recycling citizen engagement social mobility road congestion public transport security school education green spaces basic amenities corruption air pollution

0%

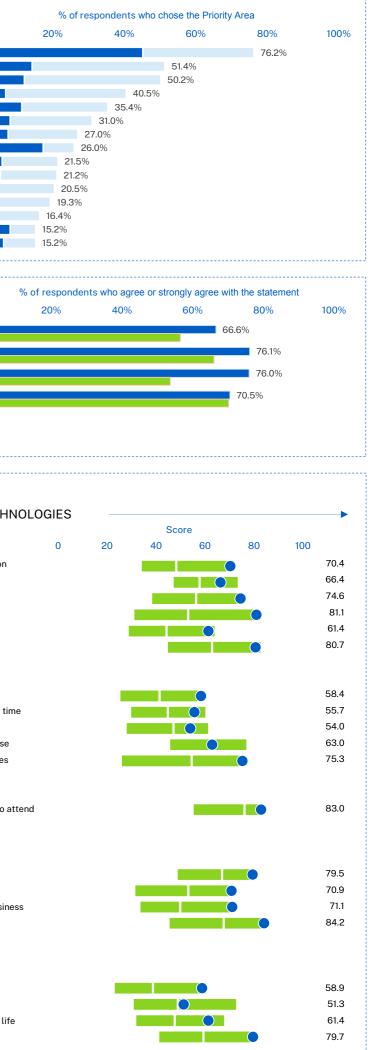
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

STRUCTURES							TECHNOLOG
		Sco	ore				
Health & Safety 0	20	40	60	80	100		Health & Safety
Basic sanitation meets the needs of the poorest areas						85.0	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory)		68.3	A website or App allows residents to easily give away unwanted items
Public safety is not a problem						80.4	Free public wifi has improved access to city services
Air pollution is not a problem			\bigcirc			67.3	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						84.4	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a problem						45.8	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						49.3	Car-sharing Apps have reduced congestion
Public transport is satisfactory				\bigcirc		78.9	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory				\bigcirc		78.0	Online purchasing of tickets to shows and museums has made it easier to attend
Cultural activities (shows, bars, and museums) are satisfactory						76.7	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						74.8	Online access to job listings has made it easier to find work
Most children have access to a good school						80.1	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						81.1	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs						70.5	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						70.6	
Governance							Governance
Information on local government decisions are easily accessible						78.3	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern			(71.1	Online voting has increased participation
Residents contribute to decision making of local government						61.0	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects						68.8	Processing Identification Documents online has reduced waiting times



Sofia



BACKGROUND INFORMATION



GNI per capita (PPP \$)

(Eurostat)

Ackara

22,020

23,079

Country	2018	2019	2020	2021	1 yr change
HDI	0.816	0.816	0.802	0.795	-0.007
Life expectancy at birth	74.9	75.1	73.7	71.8	-1.9
Expected years of schooling	14.8	14.4	13.9	13.9	+0.0
Mean years of schooling	11.8	11.4	11.4	11.4	+0.0

23,325

19,646

PRIORITY AREAS

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air pollution road congestion corruption security affordable housing health services green spaces unemployment recycling school education basic amenities fulfilling employment public transport citizen engagement 10.2% social mobility 8.4%

0%

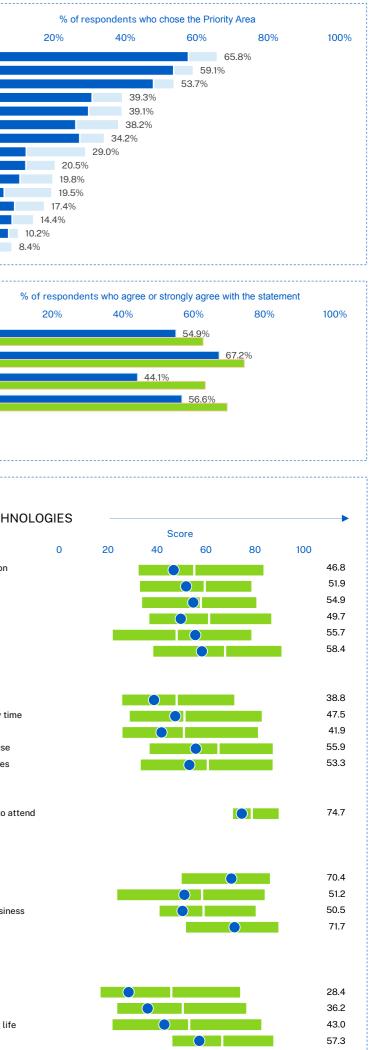
0%

ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

CC			
		LEGEND: MIN	TY MEAN GROUP MAX
C in 2021	STRUCTURES		TECHNOLO
	Health & Safety 0 20 40 60	80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	54.0	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	42.9	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	37.3	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	20.4	CCTV cameras has made residents feel safer
RATINGS	Medical services provision is satisfactory	45.7	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	28.8	Arranging medical appointments online has improved access
CC	Mobility		Mobility
	Traffic congestion is not a problem	16.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	51.6	Apps that direct you to an available parking space have reduced journey time
			Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
CC			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	42.7	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	67.9	
	Opportunities (Work & School)		Opportunities (Work & School)
GROUP	Employment finding services are readily available	64.3	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school	55.7	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	49.9	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	55.9	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome	41.0	
	Governance		Governance
	Information on local government decisions are easily accessible	41.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	18.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	28.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	36.0	Processing Identification Documents online has reduced waiting times

+1,058



Stockholm



BACKGROUND INFORMATION



(Eurostat)

SMART **CITY RATING**



A in 2021

FACTOR RATINGS

A STRUCTURES

A TECHNOLOGIE

GROUP



City HDI

2,391,990



Country	2018	2019	2020	2021	1 yr change	
HDI	0.937	0.945	0.942	0.947	+0.005	
Life expectancy at birth	82.7	82.8	82.4	83.0	+0.5	
Expected years of schooling	18.8	19.5	18.0	18.0	+0.0	
Mean years of schooling	12.4	12.5	12.6	12.6	+0.0	
GNI per capita (PPP \$)	47,955	54,508	52,359	54,489	+2,130	

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

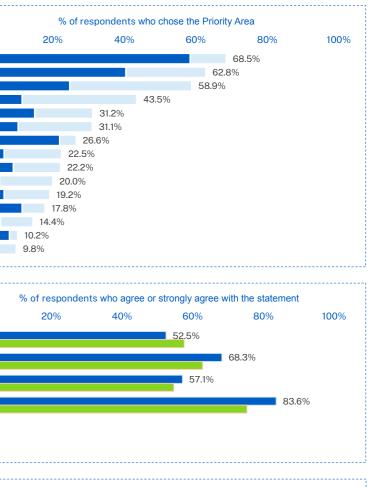
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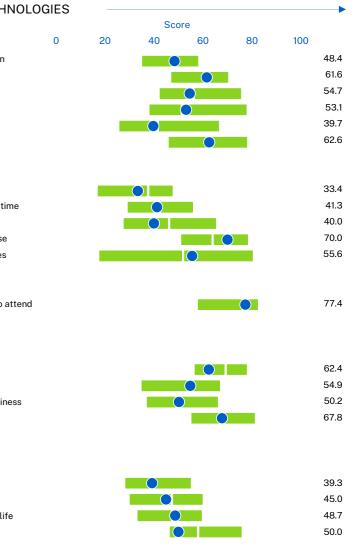
0% affordable housing security health services unemployment public transport school education road congestion recycling social mobility green spaces fulfilling employment air pollution basic amenities corruption 10.2% citizen engagement 9.8%

0%

ATTITUDES

					LEGEN	D: MIN	CITY MEAN GROUP MAX
STRL	JCTURES					•	TECHNO
	0	20		ore	00	100	
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						63.6	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory						70.4	A website or App allows residents to easily give away unwanted items
Public safety is not a problem			\bigcirc			44.2	Free public wifi has improved access to city services
Air pollution is not a problem				\bigcirc		53.0	CCTV cameras has made residents feel safer
Medical services provision is satisfactory				\bigcirc		60.8	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a p	problem)			26.2	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						29.6	Car-sharing Apps have reduced congestion
Public transport is satisfactory						56.2	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory						73.6	Online purchasing of tickets to shows and museums has made it easier to atte
Cultural activities (shows, bars, and museums) are satisfactory						78.8	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						69.4	Online access to job listings has made it easier to find work
Most children have access to a good school						72.2	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions				\bigcirc		67.1	Online services provided by the city has made it easier to start a new business
Businesses are creating new jobs						66.3	The current internet speed and reliability meet connectivity needs
Minorities feel welcome				\bigcirc		54.7	
Governance							Governance
Information on local government decisions are easily accessible						65.0	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						52.9	Online voting has increased participation
Residents contribute to decision making of local government						50.7	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects					_	56.0	Processing Identification Documents online has reduced waiting times





Sydney



BACKGROUND INFORMATION



in 2021

SMART **CITY RATING**



FACTOR RATINGS

A STRUCTURES

ΔΔ TECHNOLOGIES

GROUP



HDI 0.952 (UN Data)



Map tiles by Stamen Design CC BY 3.0 Map Data © Oper

						÷
Country	2018	2019	2020	2021	1 yr change	
HDI	0.941	0.941	0.947	0.951	+0.004	ł
Life expectancy at birth	83.4	83.1	84.3	84.5	+0.2	
Expected years of schooling	18.0	18.0	18.0	18.0	+0.0	
Mean years of schooling	12.6	12.1	12.4	12.4	+0.0	
GNI per capita (PPP \$)	43,821	52,085	49,392	52,293	+2,901	

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

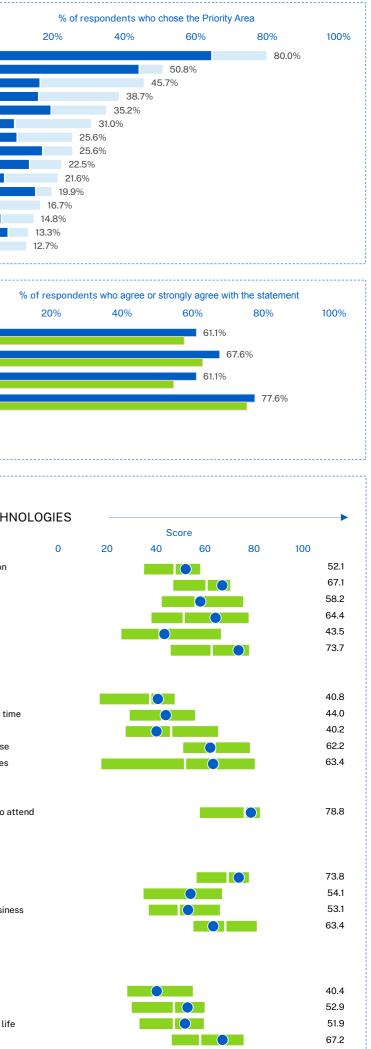
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0% affordable housing road congestion health services unemployment public transport fulfilling employment recycling air pollution security school education corruption basic amenities social mobility green spaces 13.3% citizen engagement

0%

ATTITUDES

					LEGEN	D: MIN	CITY MEAN GROUP MAX	
STRUC	TURES						▲ TECH	INC
				ore				
Health & Safety	0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas						67.1	Online reporting of city maintenance problems provides a speedy solution	1
Recycling services are satisfactory						71.8	A website or App allows residents to easily give away unwanted items	
Public safety is not a problem						53.2	Free public wifi has improved access to city services	
Air pollution is not a problem			\bigcirc			42.6	CCTV cameras has made residents feel safer	
Medical services provision is satisfactory				\bigcirc		67.8	A website or App allows residents to effectively monitor air pollution	
Finding housing with rent equal to 30% or less of a monthly salary is not a prol	blem					27.3	Arranging medical appointments online has improved access	
Mobility							Mobility	
Traffic congestion is not a problem						25.7	Car-sharing Apps have reduced congestion	
Public transport is satisfactory				\bigcirc		58.5	Apps that direct you to an available parking space have reduced journey t	ime
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has made public transport easier to use	е
							The city provides information on traffic congestion through mobile phones	S
Activities							Activities	
Green spaces are satisfactory				\bigcirc		67.1	Online purchasing of tickets to shows and museums has made it easier to	atte
Cultural activities (shows, bars, and museums) are satisfactory					0	74.7		
Opportunities (Work & School)							Opportunities (Work & School)	
Employment finding services are readily available						69.8	Online access to job listings has made it easier to find work	
Most children have access to a good school						75.3	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institutions						66.8	Online services provided by the city has made it easier to start a new busin	ness
Businesses are creating new jobs						64.1	The current internet speed and reliability meet connectivity needs	
Minorities feel welcome						63.0		
Governance							Governance	
Information on local government decisions are easily accessible						61.6	Online public access to city finances has reduced corruption	
Corruption of city officials is not an issue of concern						40.5	Online voting has increased participation	
Residents contribute to decision making of local government						53.2	An online platform where residents can propose ideas has improved city li	ife
Residents provide feedback on local government projects						62.7	Processing Identification Documents online has reduced waiting times	



Taipei City



SMART

CITY RATING

Α

BACKGROUND INFORMATION



Population	HDI (2019)
2,742,379	0.916

(UN World Urbanisation Prospects 2022 estimate)



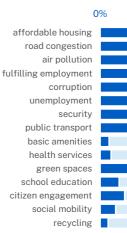
sign CC BY 3.0 Map Data © O

Country	2018	2019	2020	2021	1 yr change
HDI	0.911	0.916	NA	NA	NA
Life expectancy at birth	80.7	80.9	NA	NA	NA
Expected years of schooling	16.5	16.5	NA	NA	NA
Mean years of schooling	12.2	12.3	NA	NA	NA
GNI per capita (PPP \$)	49,403	52,573	NA	NA	NA

PRIORITY AREAS

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0%

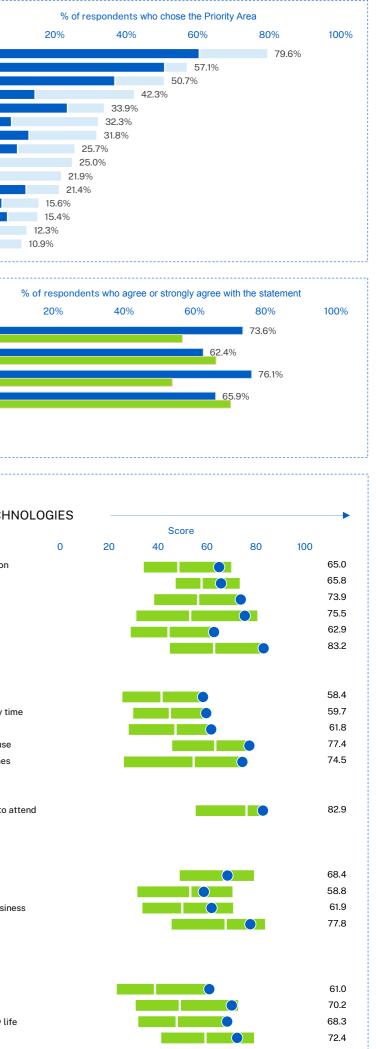
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

A						LEGEN	D: MIN		CITY MEAN GROUP MAX
B in 2021	STRUCT	TURES							TECHNOL
				Sco	ore				
	Health & Safety	0	20	40	60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas							83.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory							83.6	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem							69.7	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem			\bigcirc				38.9	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory							86.3	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a prob	olem						31.1	Arranging medical appointments online has improved access
BBB	Mobility								Mobility
	Traffic congestion is not a problem							20.6	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory							61.7	Apps that direct you to an available parking space have reduced journey time
									Bicycle hiring has reduced congestion
									Online scheduling and ticket sales has made public transport easier to use
Δ									The city provides information on traffic congestion through mobile phones
~	Activities								Activities
TECHNOLOGIES	Green spaces are satisfactory							59.3	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory				(71.8	
	Opportunities (Work & School)								Opportunities (Work & School)
000110	Employment finding services are readily available							67.6	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school							62.9	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				(72.0	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs							61.8	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome							62.6	
	Governance								Governance
	Information on local government decisions are easily accessible							68.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern							40.4	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government							62.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects							67.7	Processing Identification Documents online has reduced waiting times



Tallinn



CITY RATING

BBB

BBB in 2021

FACTOR

RATINGS

BBB

STRUCTURES

BB

TECHNOLOGIES

GROUP

2

All ratings range

from AAA to D

BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.882	0.892	0.892	0.890	-0.002
Life expectancy at birth	78.6	78.8	78.3	77.1	-1.2
Expected years of schooling	16.1	16.0	15.9	15.9	+0.0
Mean years of schooling	13.0	13.1	13.6	13.6	+0.0
GNI per capita (PPP \$)	30,379	36,019	35,132	38,048	+2,916

PRIORITY AREAS

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affordable housing corruption road congestion health services unemployment fulfilling employment citizen engagement school education green spaces recycling social mobility security basic amenities public transport air pollution

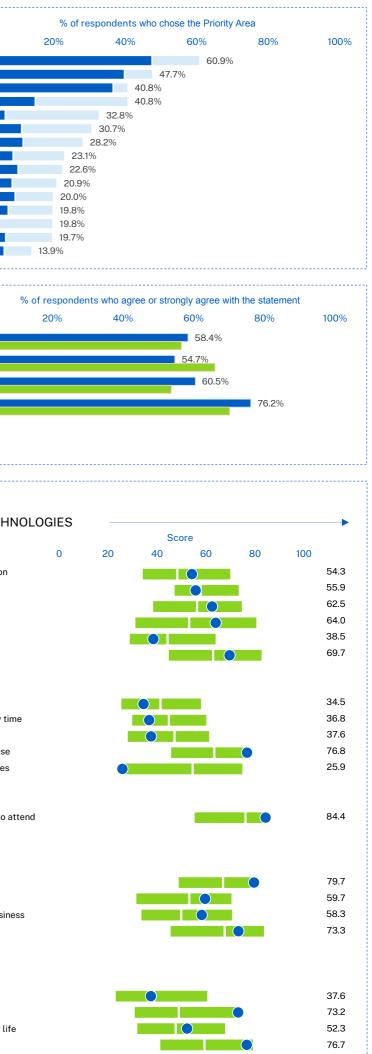
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: GR CITY

					LEGEN	ID: MIN OC	ITY MEAN GROUP MAX	
	STRUCTURES						TECHNO	LO
				ore				
	Health & Safety 0	20	40	60	80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas					72.9	Online reporting of city maintenance problems provides a speedy solution	
	Recycling services are satisfactory				\bigcirc	74.4	A website or App allows residents to easily give away unwanted items	
	Public safety is not a problem					78.2	Free public wifi has improved access to city services	
	Air pollution is not a problem					71.8	CCTV cameras has made residents feel safer	
	Medical services provision is satisfactory				\bigcirc	73.3	A website or App allows residents to effectively monitor air pollution	
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem		\bigcirc			32.4	Arranging medical appointments online has improved access	
	Mobility						Mobility	
	Traffic congestion is not a problem					28.1	Car-sharing Apps have reduced congestion	
	Public transport is satisfactory					72.6	Apps that direct you to an available parking space have reduced journey time	
						7 210	Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has made public transport easier to use	
							The city provides information on traffic congestion through mobile phones	
	Activities						Activities	
3	Green spaces are satisfactory					75.0	Online purchasing of tickets to shows and museums has made it easier to atte	nd
	Cultural activities (shows, bars, and museums) are satisfactory					85.1		
	Opportunities (Work & School)						Opportunities (Work & School)	
	Employment finding services are readily available					79.5	Online access to job listings has made it easier to find work	
	Most children have access to a good school					72.6	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions					65.4	Online services provided by the city has made it easier to start a new business	
	Businesses are creating new jobs					67.4	The current internet speed and reliability meet connectivity needs	
	Minorities feel welcome	- 7				52.5		
	Governance						Governance	
	Information on local government decisions are easily accessible					67.5	Online public access to city finances has reduced corruption	
	Corruption of city officials is not an issue of concern					33.9	Online voting has increased participation	
e	Residents contribute to decision making of local government				-	41.8	An online platform where residents can propose ideas has improved city life	
	Residents provide feedback on local government projects					53.6	Processing Identification Documents online has reduced waiting times	

0%

0%



Tel Aviv



B

BB in 2021

FACTOR

RATINGS

B

STRUCTURES

BB

TECHNOLOGIES

GROUP

2

All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN Data)



Map tiles by Stamen Design CC BY 3.0 Map Data © OpenStreetMap

Country	2018	2019	2020	2021	1 yr change
HDI	0.906	0.919	0.917	0.919	+0.002
Life expectancy at birth	82.8	83.0	82.4	82.3	-0.1
Expected years of schooling	16.0	16.2	16.1	16.1	+0.0
Mean years of schooling	13.0	13.0	13.4	13.4	+0.0
GNI per capita (PPP \$)	33,650	40,187	39,015	41,524	+2,509

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation. road congestion affordable housing public transport security air pollution green spaces school education health services corruption recycling fulfilling employment basic amenities unemployment citizen engagement social mobility 6.7%

ATTITUDES

LEGEND:

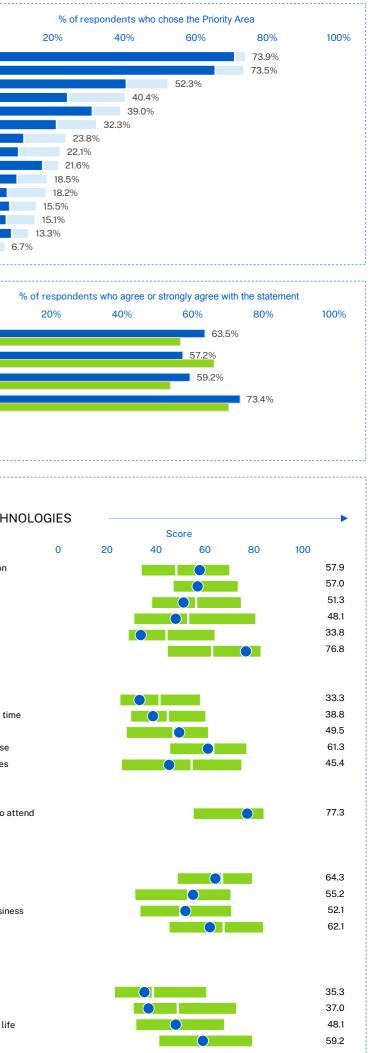
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

				LEGEND:	MIN	ITY MEAN GROUP MAX	
STRUCTURES		6.	ore		•	▲ TE	ECHNOLO
Health & Safety 0	20	40	60	80	100	Health & Safety	
Basic sanitation meets the needs of the poorest areas					48.1	Online reporting of city maintenance problems provides a speedy solu	ution
Recycling services are satisfactory					55.8	A website or App allows residents to easily give away unwanted items	
Public safety is not a problem					46.3	Free public wifi has improved access to city services	
Air pollution is not a problem			1		27.9	CCTV cameras has made residents feel safer	
Medical services provision is satisfactory					67.0	A website or App allows residents to effectively monitor air pollution	
Finding housing with rent equal to 30% or less of a monthly salary is not a problem					16.4	Arranging medical appointments online has improved access	
Mobility						Mobility	
Traffic congestion is not a problem					10.3	Car-sharing Apps have reduced congestion	
Public transport is satisfactory					33.7	Apps that direct you to an available parking space have reduced jourr	ney time
						Bicycle hiring has reduced congestion	
						Online scheduling and ticket sales has made public transport easier to	o use
						The city provides information on traffic congestion through mobile ph	iones
Activities						Activities	
Green spaces are satisfactory					48.6	Online purchasing of tickets to shows and museums has made it easie	er to attend
Cultural activities (shows, bars, and museums) are satisfactory					76.0		
Opportunities (Work & School)						Opportunities (Work & School)	
Employment finding services are readily available					52.7	Online access to job listings has made it easier to find work	
Most children have access to a good school			\bigcirc		62.1	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institutions					57.0	Online services provided by the city has made it easier to start a new	business
Businesses are creating new jobs			\bigcirc		60.7	The current internet speed and reliability meet connectivity needs	
Minorities feel welcome	I	\bigcirc			41.9		
Governance						Governance	
Information on local government decisions are easily accessible			\bigcirc		53.9	Online public access to city finances has reduced corruption	
Corruption of city officials is not an issue of concern					36.7	Online voting has increased participation	
Residents contribute to decision making of local government					37.8	An online platform where residents can propose ideas has improved c	city life
Residents provide feedback on local government projects					48.6	Processing Identification Documents online has reduced waiting time	s

0%

0%



The Hague



CITY RATING

Α

BACKGROUND INFORMATION

City	
Population	HDI
3,726,050	0.941

(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.934	0.944	0.939	0.941	+0.002
Life expectancy at birth	82.1	82.3	81.6	81.7	+0.0
Expected years of schooling	18.0	18.5	18.0	18.0	+0.0
Mean years of schooling	12.2	12.4	12.6	12.6	+0.0
GNI per capita (PPP \$)	50,013	57,707	53,504	55,979	+2,476

PRIORITY AREAS

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affordable housing security health services road congestion basic amenities school education air pollution green spaces unemployment public transport recycling citizen engagement corruption social mobility fulfilling employment

0%

0%

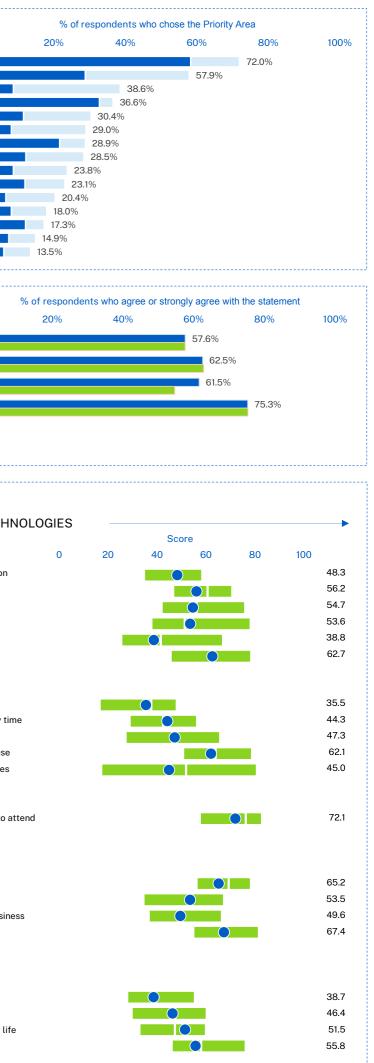
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

A				LEC	GEND: MIN OC	ITY MEAN GROUP MAX
BB in 2021	STR	UCTURES -				TECHNOI
			Score			
	Health & Safety	0 20	40	60 80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				67.4	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory				67.3	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				52.8	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				40.8	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				74.4	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a	a problem			28.4	Arranging medical appointments online has improved access
A	Mobility					Mobility
	Traffic congestion is not a problem				29.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				66.3	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
Δ						The city provides information on traffic congestion through mobile phones
~	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				63.5	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory				75.8	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				66.3	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				72.5	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				63.1	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs				62.4	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				58.8	
	Governance					Governance
	Information on local government decisions are easily accessible				60.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				48.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				53.0	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				57.6	Processing Identification Documents online has reduced waiting times



Tianjin

SMART CITY RANKING 67 Out of 141 50 out of 118 in 2021

SMART

CITY RATING

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



Country	2018	2019	2020	2021	1 yr change
HDI	0.758	0.761	0.764	0.768	+0.004
Life expectancy at birth	76.7	76.9	78.1	78.2	+0.1
Expected years of schooling	13.9	14.0	14.2	14.2	+0.0
Mean years of schooling	7.9	8.1	7.6	7.6	+0.0
GNI per capita (PPP \$)	16,127	16,057	16,201	17,504	+1,303

PRIORITY AREAS

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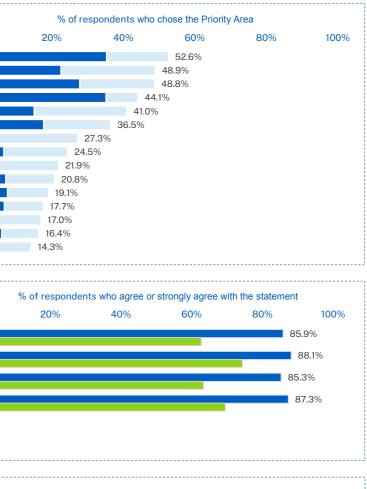
0% road congestion fulfilling employment air pollution corruption health services affordable housing basic amenities school education social mobility unemployment security citizen engagement green spaces recycling public transport

0%

ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: CITY

BB	L					L	
DD					LEGEN	D: MIN	CITY MEAN GROUP MAX
BB in 2021		CTURES		Carro		•	TECHNOL
	Health & Safety	0	20 4	Score 0 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					78.2	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory					70.2	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem					72.7	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					51.2	CCTV cameras has made residents feel safer
NATINGS	Medical services provision is satisfactory)	68.2	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a pr	oblem		•		59.5	Arranging medical appointments online has improved access
B	Mobility						Mobility
	Traffic congestion is not a problem					42.3	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					63.7	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory				\bigcirc	73.1	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory					76.7	
	Opportunities (Work & School)						Opportunities (Work & School)
GROUP	Employment finding services are readily available				\bigcirc	72.9	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				\bigcirc	75.0	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					62.1	Online services provided by the city has made it easier to start a new business
_	Businesses are creating new jobs					64.7	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome				\bigcirc	77.4	
	Governance						Governance
	Information on local government decisions are easily accessible					65.8	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern			\bigcirc		42.6	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					48.5	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					59.1	Processing Identification Documents online has reduced waiting times



OLOGIES Score 20 60 100 0 40 80 78.5 71.2 74.7 \bigcirc 79.6 71.6 \bigcirc 87.4 68.7 74.2 76.4 83.9 \bigcirc 85.1 87.6 end 80.5 \bigcirc 74.5 71.0 84.8 60.7 62.7 71.3

74.7

Tokyo



CITY RATING

BB

BACKGROUND INFORMATION



(UN Data)



Map tiles by Stamen Design CC BY 3.0 Map Data © Open

Country	2018	2019	2020	2021	1 yr change
HDI	0.915	0.919	0.923	0.925	+0.002
Life expectancy at birth	84.5	84.6	84.7	84.8	+0.1
Expected years of schooling	15.2	15.2	15.2	15.2	+0.0
Mean years of schooling	12.8	12.9	13.4	13.4	+0.0
GNI per capita (PPP \$)	40,799	42,932	41,487	42,274	+787

PRIORITY AREAS

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0% health services basic amenities affordable housing security road congestion public transport school education air pollution fulfilling employment unemployment citizen engagement corruption social mobility green spaces recycling

0%

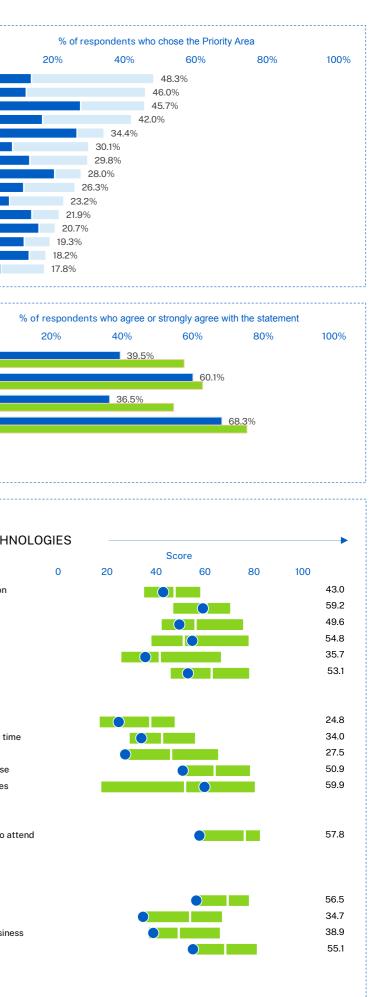
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

BB				LEGEN		CITY MEAN GROUP MAX
BB in 2021	۲	TRUCTURES -				TECHNO
			Score			
	Health & Safety	0 20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				70.9	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory				64.0	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				60.1	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				40.8	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				67.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is n	ot a problem			42.1	Arranging medical appointments online has improved access
BB	Mobility					Mobility
	Traffic congestion is not a problem				31.5	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				69.8	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
BB						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				39.4	Online purchasing of tickets to shows and museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory				61.5	
	Opportunities (Work & School)					Opportunities (Work & School)
GROUP	Employment finding services are readily available				57.5	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				54.4	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				55.8	Online services provided by the city has made it easier to start a new business
1	Businesses are creating new jobs				49.2	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				37.7	
	Governance					Governance
	Information on local government decisions are easily accessible				51.8	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				32.2	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				40.7	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				37.6	Processing Identification Documents online has reduced waiting times



28.1
29.9
33.1
46.3

Toronto



CITY RATING

BACKGROUND INFORMATION



(UN Data)



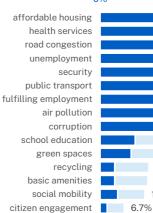
p tiles by Stamen Design CC BY 3.0 Map Data © OpenStree

Country	2018	2019	2020	2021	1 yr change
HDI	0.933	0.937	0.931	0.936	+0.005
Life expectancy at birth	82.1	82.4	82.1	82.7	+0.6
Expected years of schooling	16.2	16.4	16.4	16.4	+0.0
Mean years of schooling	13.8	8.7	8.8	8.8	+0.0
GNI per capita (PPP \$)	18,371	18,486	18,754	19,974	+1,220

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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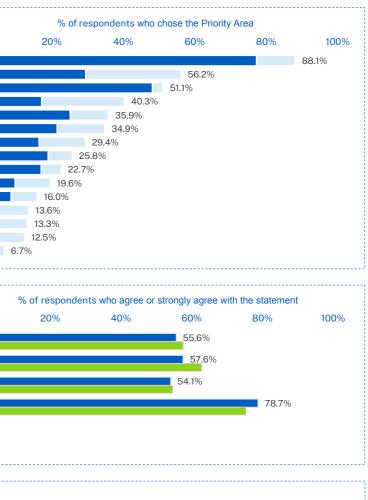
ATTITUDES

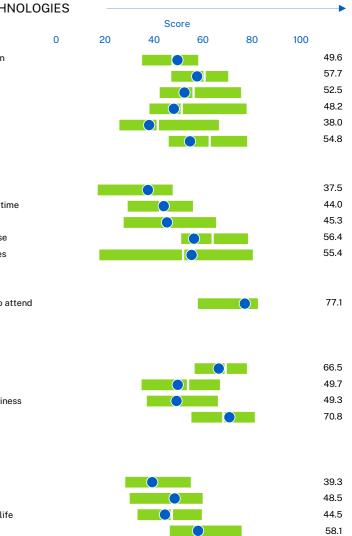
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

BBB	·						·		
						LEGEN	D: MIN	CITY MEAN GROUP MAX	1
A in 2021	STRUCT	URES		Scor				▶	TECHNO
	Health & Safety	0	20	40	60	80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas						63.5		y maintenance problems provides a speedy solution
	Recycling services are satisfactory			- 1			69.3	3 A website or App allow	vs residents to easily give away unwanted items
FACTOR	Public safety is not a problem						42.8	B Free public wifi has im	proved access to city services
RATINGS	Air pollution is not a problem						44.0	0 CCTV cameras has ma	de residents feel safer
NATINGS	Medical services provision is satisfactory						56.6	6 A website or App allow	vs residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a proble	em					18.7	7 Arranging medical app	ointments online has improved access
BBB	Mobility							Mobility	
	Traffic congestion is not a problem						17.4	4 Car-sharing Apps have	reduced congestion
STRUCTURES	Public transport is satisfactory			\bigcirc			47.8	B Apps that direct you to	an available parking space have reduced journey time
								Bicycle hiring has redu	iced congestion
								Online scheduling and	ticket sales has made public transport easier to use
BBB								The city provides infor	mation on traffic congestion through mobile phones
	Activities							Activities	
TECHNOLOGIES	Green spaces are satisfactory						65.6	6 Online purchasing of t	ckets to shows and museums has made it easier to atte
	Cultural activities (shows, bars, and museums) are satisfactory						79.8	3	
	Opportunities (Work & School)							Opportunities (V	/ork & School)
GROUP	Employment finding services are readily available						60.3	3 Online access to job lis	stings has made it easier to find work
UNOUF	Most children have access to a good school						67.8	3 IT skills are taught we	ll in schools
	Lifelong learning opportunities are provided by local institutions				\bigcirc		65.9	9 Online services provide	ed by the city has made it easier to start a new business
-	Businesses are creating new jobs						56.5	5 The current internet sp	beed and reliability meet connectivity needs
	Minorities feel welcome						66.3	3	
	Governance							Governance	
	Information on local government decisions are easily accessible				\bigcirc		61.0		o city finances has reduced corruption
	Corruption of city officials is not an issue of concern			\bigcirc			48.2		
All ratings range	Residents contribute to decision making of local government						50.0		ere residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects						55.2	2 Processing Identificati	on Documents online has reduced waiting times

0%

0%





Tunis

SMART CITY RANKING 137 Out of 141 not out of 118

in 2021

SMART

CITY RATING

D

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



2018	2019	2020	2021	1 yr change
0.743	0.745	0.737	0.731	-0.006
76.0	76.0	75.3	73.8	-1.5
15.3	15.4	15.4	15.4	+0.0
7.4	7.4	7.4	7.4	+0.0
11,027	10,910	10,046	10,258	+211
	0.743 76.0 15.3 7.4	0.743 0.745 76.0 76.0 15.3 15.4 7.4 7.4	0.743 0.745 0.737 76.0 76.0 75.3 15.3 15.4 15.4 7.4 7.4 7.4	0.7430.7450.7370.73176.076.075.373.815.315.415.415.47.47.47.47.4

PRIORITY AREAS

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unemployment public transport health services corruption affordable housing road congestion security school education basic amenities fulfilling employment green spaces air pollution recycling citizen engagement 9.2% social mobility 5.0%

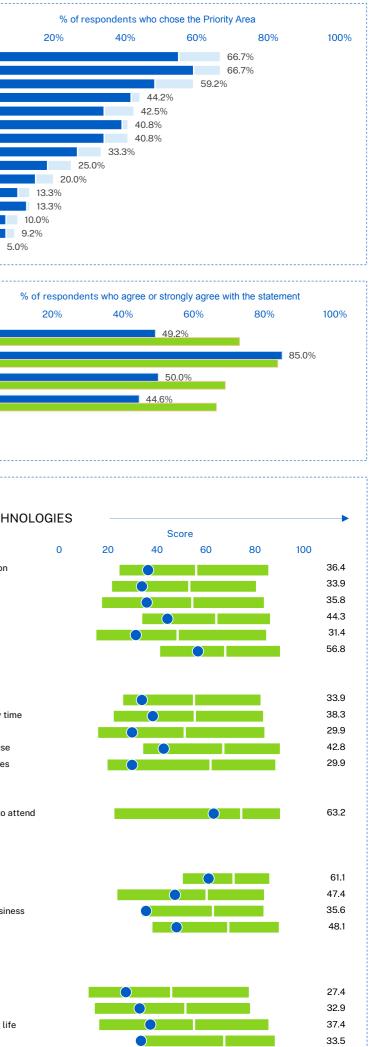
ATTITUDES

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions) LEGEND: GR CITY

	,								
ν						LEGEN	ID: MIN		CITY MEAN GROUP MAX
not in 2021	< STRUCT	URES							TECHNOLC
				Sco	re				
	Health & Safety	0	20	40	60	80	100		Health & Safety
	Basic sanitation meets the needs of the poorest areas							32.4	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory							30.6	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem)				29.6	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem							22.5	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory			\bigcirc				35.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a proble	em						25.6	Arranging medical appointments online has improved access
D	Mobility								Mobility
	Traffic congestion is not a problem		\bigcirc					12.1	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory							15.4	Apps that direct you to an available parking space have reduced journey time
									Bicycle hiring has reduced congestion
									Online scheduling and ticket sales has made public transport easier to use
D									The city provides information on traffic congestion through mobile phones
	Activities								Activities
TECHNOLOGIES	Green spaces are satisfactory			\bigcirc				39.3	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory			(52.9	
	Opportunities (Work & School)								Opportunities (Work & School)
GROUP	Employment finding services are readily available							26.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school							30.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions			\bigcirc				45.6	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs							27.4	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome			\bigcirc				46.0	
	Governance								Governance
	Information on local government decisions are easily accessible			\bigcirc				40.4	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	- I						13.6	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government)				29.4	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects							31.7	Processing Identification Documents online has reduced waiting times

0%

0%



Vancouver



A

BACKGROUND INFORMATION

City	
Population	
631,490	

(UN Data)



HDI 0.944

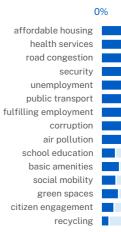


Country	2018	2019	2020	2021	1 yr change
HDI	0.933	0.937	0.931	0.936	+0.005
Life expectancy at birth	82.1	82.4	82.1	82.7	+0.6
Expected years of schooling	16.2	16.4	16.4	16.4	+0.0
Mean years of schooling	13.8	8.7	8.8	8.8	+0.0
GNI per capita (PPP \$)	18,371	18,486	18,754	19,974	+1,220

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

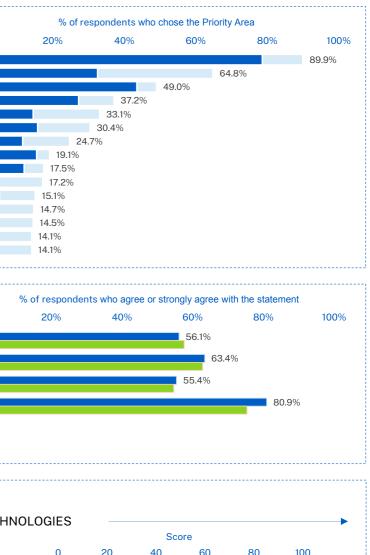
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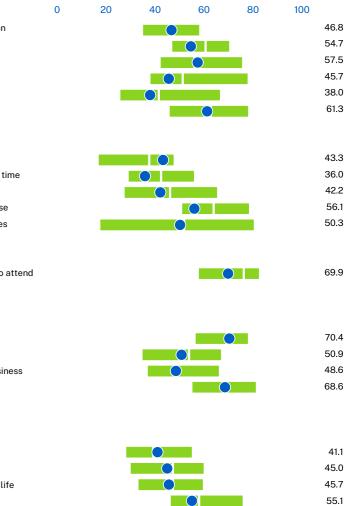


0%

ATTITUDES

	,					
A				LEGEN	ID: MIN	DITY MEAN GROUP MAX
A in 2021	S S	TRUCTURES -				TECHNO
			Score			
	Health & Safety	0 20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				56.8	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				80.8	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				47.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				53.5	CCTV cameras has made residents feel safer
in thirds	Medical services provision is satisfactory				56.2	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is n	ot a problem			16.9	Arranging medical appointments online has improved access
A	Mobility					Mobility
	Traffic congestion is not a problem				26.0	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				59.2	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
BBB						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				76.1	Online purchasing of tickets to shows and museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory		-		74.8	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				62.2	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				73.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions			\bigcirc	67.6	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs				58.6	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				64.1	
	Governance					Governance
	Information on local government decisions are easily accessible				62.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				48.7	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				53.0	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				62.0	Processing Identification Documents online has reduced waiting times





Vienna



CITY RATING

ΔΔ

BACKGROUND INFORMATION

City	
Population	HDI
1,920,949	0.942

(Eurostat)



Country	2018	2019	2020	2021	1 vr obongo
Country	2018	2019	2020	2021	1 yr change
HDI	0.914	0.922	0.913	0.916	+0.003
Life expectancy at birth	81.4	81.5	81.5	81.6	+0.1
Expected years of schooling	16.3	16.1	16.0	16.0	+0.0
Mean years of schooling	12.6	12.5	12.3	12.3	+0.0
GNI per capita (PPP \$)	46,231	56,197	51,574	53,619	+2,044

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

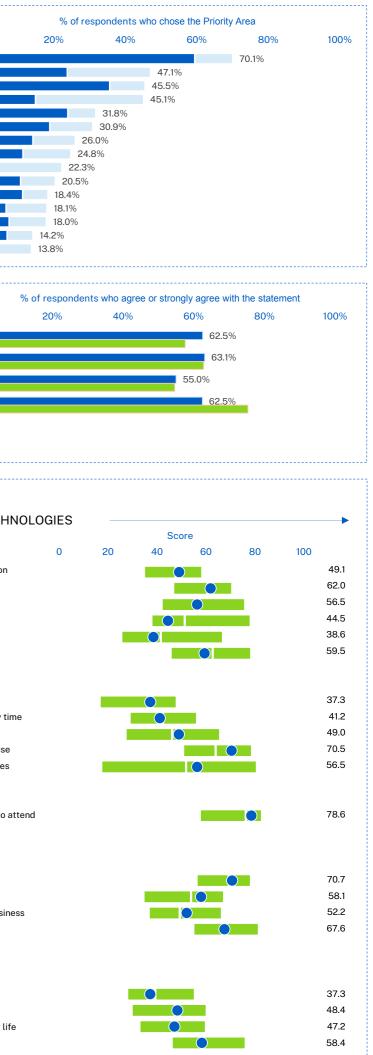
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0% affordable housing security road congestion unemployment corruption air pollution green spaces health services recycling school education citizen engagement fulfilling employment public transport social mobility basic amenities

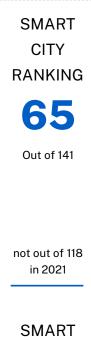
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ATTITUDES

AA				LEGENI	D: MIN	MEAN GROUP MAX
AA in 2021	STRL	JCTURES -				TECHNOI
			Score			
	Health & Safety	0 20	40 60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				78.9	Online reporting of city maintenance problems provides a speedy solution
FAOTOD	Recycling services are satisfactory				79.6	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				62.1	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem				52.1	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory				76.2	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a p	problem			27.2	Arranging medical appointments online has improved access
AA	Mobility					Mobility
	Traffic congestion is not a problem				37.7	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				74.5	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
Δ						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				66.7	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory		-		84.9	
	Opportunities (Work & School)					Opportunities (Work & School)
	Employment finding services are readily available				65.8	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				67.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				69.4	Online services provided by the city has made it easier to start a new business
-	Businesses are creating new jobs				67.8	The current internet speed and reliability meet connectivity needs
	Minorities feel welcome				61.3	
	Governance					Governance
	Information on local government decisions are easily accessible				59.1	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				43.1	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				46.8	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				53.1	Processing Identification Documents online has reduced waiting times



Vilnius



CITY RATING

BB

BACKGROUND INFORMATION



(Eurostat)

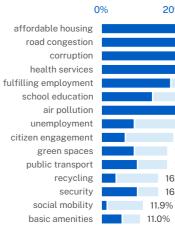
Belarus Polane

Country	2018	2019	2020	2021	1 yr change
HDI	0.880	0.884	0.879	0.875	-0.004
Life expectancy at birth	75.7	76.2	75.1	73.7	-1.3
Expected years of schooling	16.6	16.3	16.3	16.3	+0.0
Mean years of schooling	13.3	13.4	13.5	13.5	+0.0
GNI per capita (PPP \$)	33,963	35,705	36,077	37,931	+1,855

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

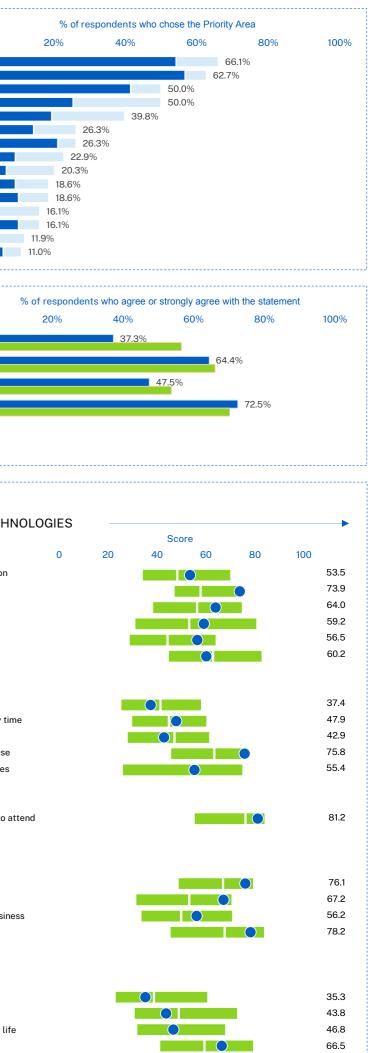
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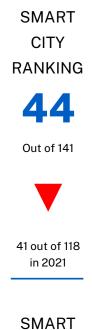
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ATTITUDES

DD					LEGEN	D: MIN	CITY MEAN GROUP MAX
not in 2021	STRUCTURES						TECHNOLO
			Sco				
	Health & Safety 0	20	40	60	80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas					71.8	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				\bigcirc	75.3	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem			\bigcirc		59.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem					46.6	CCTV cameras has made residents feel safer
	Medical services provision is satisfactory			\bigcirc		57.2	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem)			27.3	Arranging medical appointments online has improved access
BB	Mobility						Mobility
	Traffic congestion is not a problem					18.4	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory					55.2	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
BBB							The city provides information on traffic congestion through mobile phones
	Activities						Activities
TECHNOLOGIES	Green spaces are satisfactory					64.4	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory			<u> </u>		75.8	
	Opportunities (Work & School)						Opportunities (Work & School)
	Employment finding services are readily available	_				71.5	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school					56.8	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions					54.1	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs					60.5	The current internet speed and reliability meet connectivity needs
2	Minorities feel welcome	1	\bigcirc			47.9	
	Governance						Governance
	Information on local government decisions are easily accessible					48.3	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern					26.3	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government					33.9	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects					54.4	Processing Identification Documents online has reduced waiting times
L	· · · · · · · · · · · · · · · · · · ·						



Warsaw



CITY RATING

BBB

BB in 2021

FACTOR

RATINGS

BBB

STRUCTURES

BBB

TECHNOLOGIES

GROUP

2

All ratings range from AAA to D

BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.872	0.880	0.876	0.876	+0.000
Life expectancy at birth	78.5	78.7	76.9	76.5	-0.5
Expected years of schooling	16.4	16.3	16.0	16.0	+0.0
Mean years of schooling	12.3	12.5	13.2	13.2	+0.0
GNI per capita (PPP \$)	27,626	31,623	31,164	33,034	+1,869

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

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affordable housing security health services fulfilling employment air pollution road congestion basic amenities green spaces public transport recycling school education unemployment corruption social mobility citizen engagement

ATTITUDES

LEGEND:

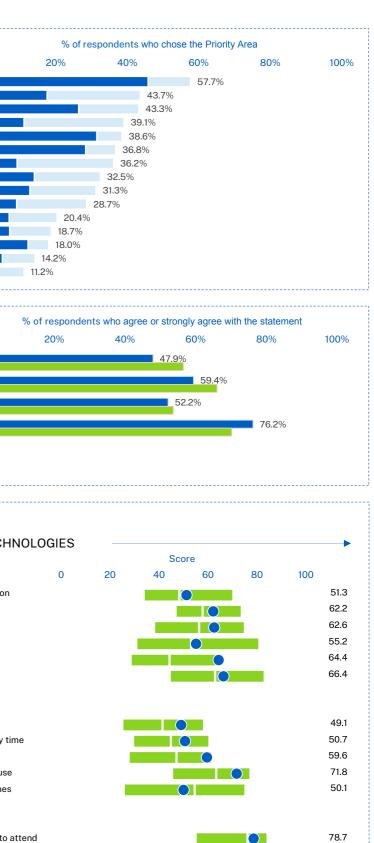
You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

•	STRUCTURES						TECHNOLOGIES	
	011100101120		Sco	ore			Score	
Health & Safety	0	20	40	60 80) 10	00	Health & Safety 0 20 40 60 80	10
Basic sanitation meets the needs of the poorest areas						64.1	Online reporting of city maintenance problems provides a speedy solution	
Recycling services are satisfactory						61.3	A website or App allows residents to easily give away unwanted items	
Public safety is not a problem					-	61.1	Free public wifi has improved access to city services	
Air pollution is not a problem						31.6	CCTV cameras has made residents feel safer	
Medical services provision is satisfactory						46.3	A website or App allows residents to effectively monitor air pollution	
Finding housing with rent equal to 30% or less of a monthly s	alary is not a problem				_	28.6	Arranging medical appointments online has improved access	
Mobility							Mobility	
Traffic congestion is not a problem						31.4	Car-sharing Apps have reduced congestion	
Public transport is satisfactory						63.0	Apps that direct you to an available parking space have reduced journey time	
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has made public transport easier to use	
							The city provides information on traffic congestion through mobile phones	
Activities							Activities	
Green spaces are satisfactory						63.0	Online purchasing of tickets to shows and museums has made it easier to attend	
Cultural activities (shows, bars, and museums) are satisfactor	У					77.6		
Opportunities (Work & School)							Opportunities (Work & School)	
Employment finding services are readily available						65.4	Online access to job listings has made it easier to find work	
Most children have access to a good school						68.4	IT skills are taught well in schools	
Lifelong learning opportunities are provided by local institution	ons					70.4	Online services provided by the city has made it easier to start a new business	
Businesses are creating new jobs						69.3	The current internet speed and reliability meet connectivity needs	
Minorities feel welcome						58.3		
Governance							Governance	
Information on local government decisions are easily accessil	ble					62.1	Online public access to city finances has reduced corruption	
Corruption of city officials is not an issue of concern						40.7	Online voting has increased participation	
Residents contribute to decision making of local government						54.7	An online platform where residents can propose ideas has improved city life	
Residents provide feedback on local government projects						63.3	Processing Identification Documents online has reduced waiting times	

0%

0%



78.7
58.7
63.7
71.3

Washington D.C.



CITY RATING

BACKGROUND INFORMATION

HDI

0.940



(UN Data)



n CC BY 3.0 Map Data © O

Country	2018	2019	2020	2021	1 yr change
HDI	0.920	0.926	0.920	0.921	+0.001
Life expectancy at birth	78.9	78.9	77.4	77.2	-0.2
Expected years of schooling	16.3	16.3	16.3	16.3	+0.0
Mean years of schooling	13.4	13.4	13.7	13.7	+0.0
GNI per capita (PPP \$)	56,140	63,826	61,462	64,765	+3,304

PRIORITY AREAS

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ATTITUDES

BB						
				LEG	END: MIN	CITY MEAN GROUP MAX
A in 2021	▲ ST	RUCTURES	Score		•	TECHNOI
	Health & Safety	0 20		80	100	Health & Safety
	Basic sanitation meets the needs of the poorest areas				57.3	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory				64.0	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem				39.5	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	_			46.6	CCTV cameras has made residents feel safer
NATINGS	Medical services provision is satisfactory				59.0	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is no	t a problem			32.9	Arranging medical appointments online has improved access
BB	Mobility					Mobility
	Traffic congestion is not a problem				29.3	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory				56.7	Apps that direct you to an available parking space have reduced journey time
						Bicycle hiring has reduced congestion
						Online scheduling and ticket sales has made public transport easier to use
BB						The city provides information on traffic congestion through mobile phones
	Activities					Activities
TECHNOLOGIES	Green spaces are satisfactory				64.8	Online purchasing of tickets to shows and museums has made it easier to atten
	Cultural activities (shows, bars, and museums) are satisfactory				81.7	
	Opportunities (Work & School)					Opportunities (Work & School)
GROUP	Employment finding services are readily available				63.1	Online access to job listings has made it easier to find work
GROUP	Most children have access to a good school				53.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions				61.5	Online services provided by the city has made it easier to start a new business
9	Businesses are creating new jobs				64.6	The current internet speed and reliability meet connectivity needs
4	Minorities feel welcome				62.9	
	Governance					Governance
	Information on local government decisions are easily accessible				66.2	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern				38.8	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government				54.3	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects				60.5	Processing Identification Documents online has reduced waiting times

Wellington



BACKGROUND INFORMATION

City	
Population	
201 706	

(UN Data)

SMART **CITY RATING**



not in 2021

FACTOR RATINGS

A STRUCTURES

BBB TECHNOLOGIES

GROUP



HDI 0.958 201,786



Country	2018	2019	2020	2021	1 yr change
HDI	0.936	0.937	0.936	0.937	+0.001
Life expectancy at birth	82.4	82.6	82.7	82.5	-0.3
Expected years of schooling	18.0	18.0	18.0	18.0	+0.0
Mean years of schooling	13.1	7.9	8.7	8.7	+0.0
GNI per capita (PPP \$)	16,129	17,781	16,804	17,030	+226

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

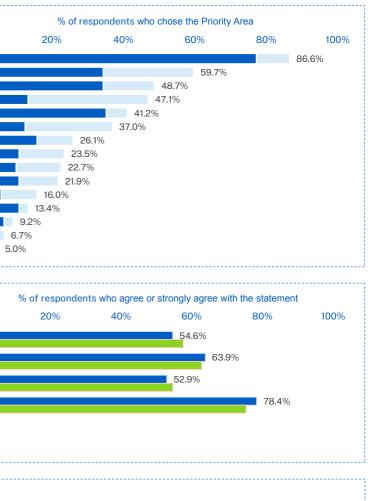
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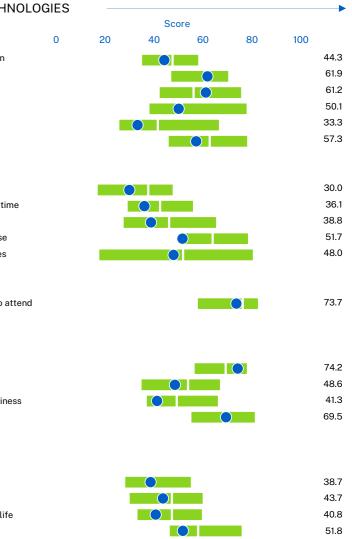
0% affordable housing health services public transport basic amenities road congestion unemployment security fulfilling employment school education recycling citizen engagement corruption air pollution 9.2% social mobility 6.7% green spaces 5.0%

0%

ATTITUDES

					LEGEN	D: MIN	CITY MEAN GROUP MAX
STF	RUCTURES					•	TECHN
			Sc	ore			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						68.3	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory)	69.0	A website or App allows residents to easily give away unwanted items
Public safety is not a problem				\bigcirc		53.5	Free public wifi has improved access to city services
Air pollution is not a problem				\bigcirc		63.3	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						52.9	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is not a	a problem					19.2	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						32.5	Car-sharing Apps have reduced congestion
Public transport is satisfactory		1				47.2	Apps that direct you to an available parking space have reduced journey time
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory						73.0	Online purchasing of tickets to shows and museums has made it easier to at
Cultural activities (shows, bars, and museums) are satisfactory						75.1	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						68.6	Online access to job listings has made it easier to find work
lost children have access to a good school						69.7	IT skills are taught well in schools
ifelong learning opportunities are provided by local institutions						69.6	Online services provided by the city has made it easier to start a new busine
Businesses are creating new jobs						60.4	The current internet speed and reliability meet connectivity needs
/inorities feel welcome				\bigcirc		61.6	
Governance							Governance
nformation on local government decisions are easily accessible						53.1	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern				\bigcirc		53.2	Online voting has increased participation
residents contribute to decision making of local government						51.8	An online platform where residents can propose ideas has improved city life
Residents provide feedback on local government projects						59.8	Processing Identification Documents online has reduced waiting times





Zagreb

SMART CITY RANKING 106 Out of 141

not out of 118

in 2021

SMART

CITY RATING

BACKGROUND INFORMATION



(Eurostat)

Ukraine -Ankara

Country	2018	2019	2020	2021	1 yr change
HDI	0.856	0.861	0.855	0.858	+0.003
Life expectancy at birth	78.3	78.7	78.0	77.6	-0.4
Expected years of schooling	15.2	15.1	15.1	15.1	+0.0
Mean years of schooling	12.1	12.2	12.2	12.2	+0.0
GNI per capita (PPP \$)	27,784	28,898	27,185	30,132	+2,947

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

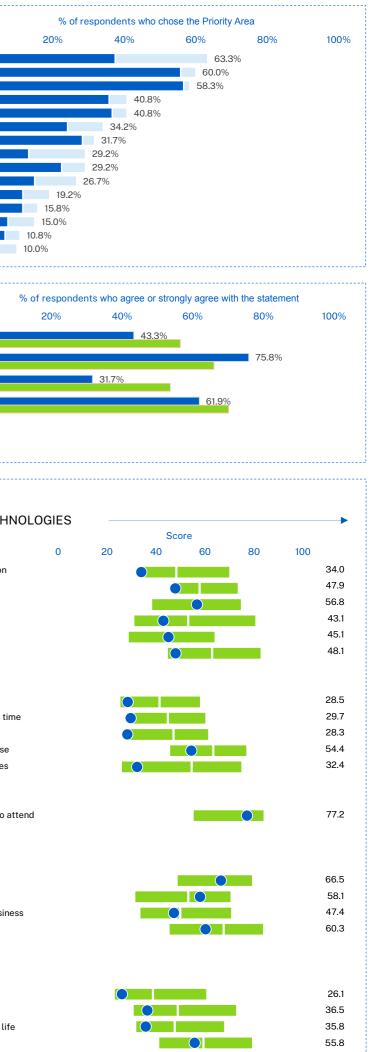
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0% basic amenities corruption road congestion affordable housing health services recycling public transport unemployment air pollution fulfilling employment security green spaces school education citizen engagement 10.8% social mobility 10.0%

0%

ATTITUDES

CCC	L	i L
		LEGEND: MIN GROUP MAX
not in 2021	STRUCTURES Score	TECHNOL
	Health & Safety 0 20 40 60	0 80 100 Health & Safety
	Basic sanitation meets the needs of the poorest areas	43.1 Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	40.0 A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	64.3 Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	35.8 CCTV cameras has made residents feel safer
i w (i ii t d d	Medical services provision is satisfactory	38.6 A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	17.9 Arranging medical appointments online has improved access
B	Mobility	Mobility
	Traffic congestion is not a problem	12.5 Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	32.1 Apps that direct you to an available parking space have reduced journey time Bicycle hiring has reduced congestion
		Online scheduling and ticket sales has made public transport easier to use
CCC		The city provides information on traffic congestion through mobile phones
	Activities	Activities
TECHNOLOGIES	Green spaces are satisfactory	50.3 Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	70.0
	Opportunities (Work & School)	Opportunities (Work & School)
GROUP	Employment finding services are readily available	58.9 Online access to job listings has made it easier to find work
anoor	Most children have access to a good school	56.7 IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	50.3 Online services provided by the city has made it easier to start a new business
2	Businesses are creating new jobs	48.2 The current internet speed and reliability meet connectivity needs
_	Minorities feel welcome	58.3
	Governance	Governance
	Information on local government decisions are easily accessible	44.9 Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	17.2 Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	25.6 An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	31.9 Processing Identification Documents online has reduced waiting times



Zaragoza



SMART

CITY RATING

BACKGROUND INFORMATION



(Eurostat)

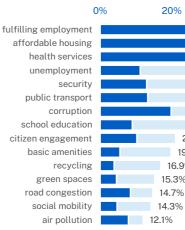


Country	2018	2019	2020	2021	1 yr change
HDI	0.893	0.904	0.899	0.905	+0.006
Life expectancy at birth	83.4	83.6	82.3	83.0	+0.7
Expected years of schooling	17.9	17.6	17.9	17.9	+0.0
Mean years of schooling	9.8	10.3	10.6	10.6	+0.0
GNI per capita (PPP \$)	35,041	40,975	36,516	38,354	+1,838

PRIORITY AREAS

From a list of 15 indicators, survey respondents were asked to select 5 that they perceived as the most urgent for their city. This is the total bar. The higher the percentage of responses per area, the greater the priority for the city.

The left-hand, dark blue section of each bar shows the Alignment, i.e. the proportion of those respondents who also answered the survey on the corresponding area by giving it low priority. A strong Alignment (i.e. consistency across both areas explained) means that these areas may benefit from close observation.



0%

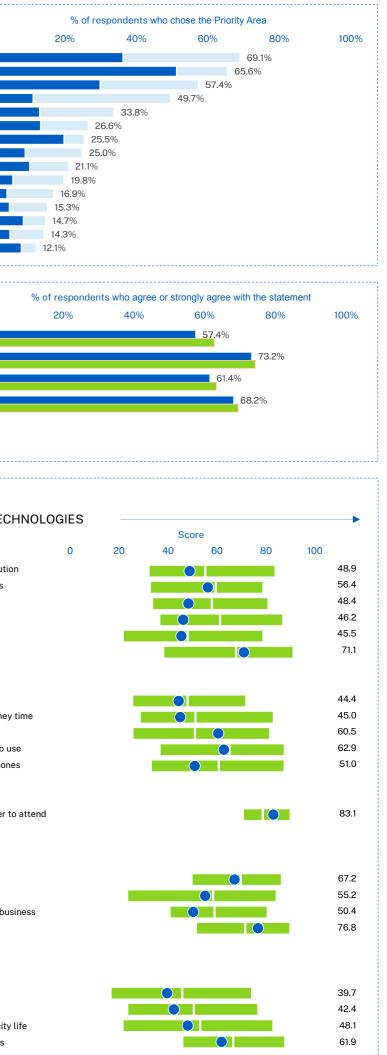
ATTITUDES

LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

	L	·	
		LEGEND: MIN	CITY MEAN GROUP MAX.
CCC in 2021	STRUCTURES	Score	TECHNOL
	Health & Safety 0 20 4	40 60 80 100	Health & Safety
	Basic sanitation meets the needs of the poorest areas	68.1	Online reporting of city maintenance problems provides a speedy solution
	Recycling services are satisfactory	74.0	A website or App allows residents to easily give away unwanted items
FACTOR	Public safety is not a problem	67.9	Free public wifi has improved access to city services
RATINGS	Air pollution is not a problem	53.3	CCTV cameras has made residents feel safer
I.V.IIIIOO	Medical services provision is satisfactory	58.7	A website or App allows residents to effectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a problem	30.7	Arranging medical appointments online has improved access
B	Mobility		Mobility
	Traffic congestion is not a problem	49.9	Car-sharing Apps have reduced congestion
STRUCTURES	Public transport is satisfactory	67.0	Apps that direct you to an available parking space have reduced journey time
			Bicycle hiring has reduced congestion
			Online scheduling and ticket sales has made public transport easier to use
CC			The city provides information on traffic congestion through mobile phones
	Activities		Activities
TECHNOLOGIES	Green spaces are satisfactory	80.3	Online purchasing of tickets to shows and museums has made it easier to attend
	Cultural activities (shows, bars, and museums) are satisfactory	77.6	
	Opportunities (Work & School)		Opportunities (Work & School)
GROUP	Employment finding services are readily available	74.6	Online access to job listings has made it easier to find work
UNCOF	Most children have access to a good school	73.2	IT skills are taught well in schools
	Lifelong learning opportunities are provided by local institutions	73.7	Online services provided by the city has made it easier to start a new business
	Businesses are creating new jobs	51.4	The current internet speed and reliability meet connectivity needs
•	Minorities feel welcome	63.0	
	Governance		Governance
	Information on local government decisions are easily accessible	61.0	Online public access to city finances has reduced corruption
	Corruption of city officials is not an issue of concern	44.5	Online voting has increased participation
All ratings range	Residents contribute to decision making of local government	44.1	An online platform where residents can propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects	49.0	Processing Identification Documents online has reduced waiting times



Zhuhai



CITY RATING

CCC

CCC in 2021

FACTOR

RATINGS

CCC

STRUCTURES

CCC

TECHNOLOGIES

GROUP

All ratings range

from AAA to D

BACKGROUND INFORMATION



(UN World Urbanisation Prospects 2022 estimate)



2018	2019	2020	2021	1 yr change
0.758	0.761	0.764	0.768	+0.004
76.7	76.9	78.1	78.2	+0.1
13.9	14.0	14.2	14.2	+0.0
7.9	8.1	7.6	7.6	+0.0
16,127	16,057	16,201	17,504	+1,303
	0.758 76.7 13.9 7.9	0.758 0.761 76.7 76.9 13.9 14.0 7.9 8.1	0.758 0.761 0.764 76.7 76.9 78.1 13.9 14.0 14.2 7.9 8.1 7.6	0.7580.7610.7640.76876.776.978.178.213.914.014.214.27.98.17.67.6

PRIORITY AREAS

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0% fulfilling employment health services air pollution security affordable housing social mobility road congestion corruption basic amenities green spaces public transport recycling citizen engagement school education 9.4% unemployment 8.5%

ATTITUDES

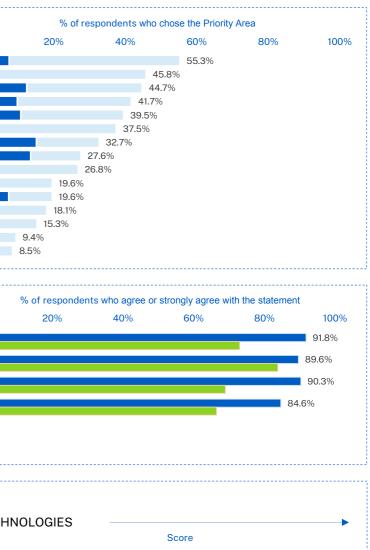
LEGEND:

You are willing to concede personal data in order to improve traffic congestion You are comfortable with face recognition technologies to lower crime You feel the availability of online information has increased your trust in authorities The proportion of your day-to-day payment transactions that are non-cash (% of transactions)

CITY

	STRUCTURES						TECH
			Sc	ore			
Health & Safety	0	20	40	60	80	100	Health & Safety
Basic sanitation meets the needs of the poorest areas						83.6	Online reporting of city maintenance problems provides a speedy solution
Recycling services are satisfactory						80.0	A website or App allows residents to easily give away unwanted items
Public safety is not a problem				(71.4	Free public wifi has improved access to city services
Air pollution is not a problem						73.8	CCTV cameras has made residents feel safer
Medical services provision is satisfactory						84.4	A website or App allows residents to effectively monitor air pollution
Finding housing with rent equal to 30% or less of a monthly salary is	not a problem					75.0	Arranging medical appointments online has improved access
Mobility							Mobility
Traffic congestion is not a problem						69.7	Car-sharing Apps have reduced congestion
Public transport is satisfactory						75.5	Apps that direct you to an available parking space have reduced journey ti
							Bicycle hiring has reduced congestion
							Online scheduling and ticket sales has made public transport easier to use
							The city provides information on traffic congestion through mobile phones
Activities							Activities
Green spaces are satisfactory						87.0	Online purchasing of tickets to shows and museums has made it easier to
Cultural activities (shows, bars, and museums) are satisfactory						83.6	
Opportunities (Work & School)							Opportunities (Work & School)
Employment finding services are readily available						79.6	Online access to job listings has made it easier to find work
Most children have access to a good school					\bigcirc	74.2	IT skills are taught well in schools
Lifelong learning opportunities are provided by local institutions						73.7	Online services provided by the city has made it easier to start a new busin
Businesses are creating new jobs					\bigcirc	80.1	The current internet speed and reliability meet connectivity needs
Minorities feel welcome						85.5	
Governance							Governance
Information on local government decisions are easily accessible						77.6	Online public access to city finances has reduced corruption
Corruption of city officials is not an issue of concern						67.9	Online voting has increased participation
Residents contribute to decision making of local government						70.7	An online platform where residents can propose ideas has improved city li
Residents contribute to decision making of tocal government						70.7	An online platform where residents can propose ideas has improved city t

0%





Zurich



BACKGROUND INFORMATION



(Eurostat)



Country	2018	2019	2020	2021	1 yr change
HDI	0.946	0.955	0.956	0.962	+0.006
Life expectancy at birth	83.6	83.8	83.1	84.0	+0.9
Expected years of schooling	16.2	16.3	16.5	16.5	+0.0
Mean years of schooling	13.4	13.4	13.9	13.9	+0.0
GNI per capita (PPP \$)	59,375	69,394	65,011	66,933	+1,922

PRIORITY AREAS

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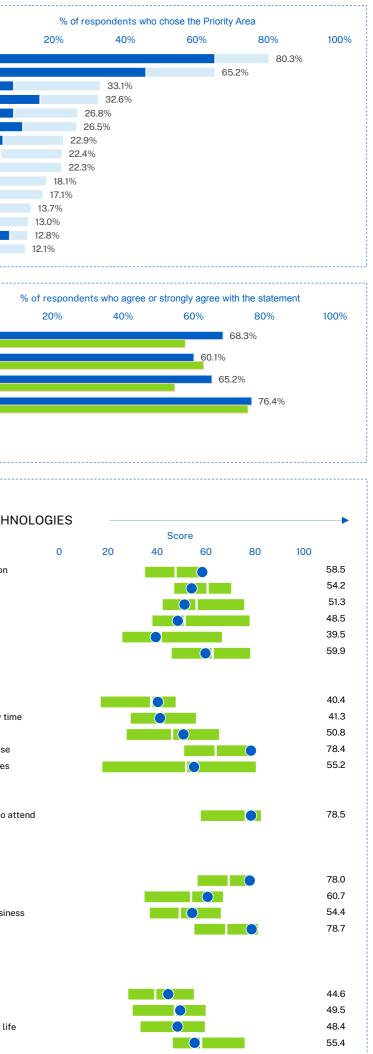
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0% affordable housing road congestion unemployment air pollution security green spaces fulfilling employment public transport recycling health services social mobility basic amenities school education corruption 12.8% citizen engagement 12.1%

0%

ATTITUDES

AAA					;			
					LEGENI	D: MIN OC	MEAN GROUP MAX	TEOLINIO
AAA in 2021		ICTURES		Score		•	•	TECHNO
	Health & Safety	0	20 40		80	100	Health & Safety	
	Basic sanitation meets the needs of the poorest areas					85.0	Online reporting of city maintenance pro	blems provides a speedy solution
	Recycling services are satisfactory					87.1	A website or App allows residents to eas	ily give away unwanted items
FACTOR	Public safety is not a problem					74.7	Free public wifi has improved access to a	city services
RATINGS	Air pollution is not a problem					59.2	CCTV cameras has made residents feel s	afer
I.V.IIIVOO	Medical services provision is satisfactory					86.2	A website or App allows residents to eff	ectively monitor air pollution
	Finding housing with rent equal to 30% or less of a monthly salary is not a p	roblem				26.4	Arranging medical appointments online	nas improved access
AAA	Mobility						Mobility	
	Traffic congestion is not a problem)		39.2	Car-sharing Apps have reduced congest	on
STRUCTURES	Public transport is satisfactory					79.6	Apps that direct you to an available park	ing space have reduced journey time
							Bicycle hiring has reduced congestion	
							Online scheduling and ticket sales has m	ade public transport easier to use
Δ							The city provides information on traffic o	ongestion through mobile phones
~	Activities						Activities	
TECHNOLOGIES	Green spaces are satisfactory				\bigcirc	74.8	Online purchasing of tickets to shows an	d museums has made it easier to atter
	Cultural activities (shows, bars, and museums) are satisfactory					84.0		
	Opportunities (Work & School)						Opportunities (Work & Schoo	l)
	Employment finding services are readily available					74.1	Online access to job listings has made it	easier to find work
GROUP	Most children have access to a good school					84.3	IT skills are taught well in schools	
	Lifelong learning opportunities are provided by local institutions					74.1	Online services provided by the city has	made it easier to start a new business
-	Businesses are creating new jobs					72.0	The current internet speed and reliability	meet connectivity needs
	Minorities feel welcome					67.8		
	Governance						Governance	
	Information on local government decisions are easily accessible					71.1	Online public access to city finances has	reduced corruption
	Corruption of city officials is not an issue of concern					65.0	Online voting has increased participation	1
All ratings range	Residents contribute to decision making of local government					73.1	An online platform where residents can	propose ideas has improved city life
from AAA to D	Residents provide feedback on local government projects			(69.5	Processing Identification Documents on	ine has reduced waiting times
t	<u> </u>							



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