

Smart City Hub Switzerland

The association for Swiss Smart Cities

Smart City stands for a holistic, forward-looking development concept that aims to make our cities more efficient, technologically advanced, greener and more socially inclusive. Various cities in Switzerland are currently developing strategies and implementing projects in cooperation with other partners.

Smart City Hub Switzerland promotes cooperation and knowledge sharing among Swiss cities and other important partners. The association serves as a facilitator for collaboration on topics and projects of common interest in the field of Smart City.

It is the declared aim of the association to enhance cooperation and the exchange of knowledge in the field of Smart City between cities and their businesses, nationwide service providers as well as federal agencies and research. It encourages its members to take advantage of synergies and to share knowledge and skills. Its main task to support the implementation of projects in order to save time and costs. Further activities of the association include the promotion of dialogue and cooperation, the development of innovative and citizen- resp. customer-oriented solutions as well as the exploitation of economies of scale.

The association is based in St. Gallen.

For further information on membership, ongoing projects, news, benefits and articles, please refer to:

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Fact Sheet

City of Winterthur



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Stadt Winterthur 

Winterthur

Winterthur is the sixth largest city in Switzerland with a current population of 116'000 (2021). The city has grown continuously in recent years and is still growing (expected population by 2030: 129'000). For years, Winterthur has enjoyed a steady influx of new residents. The reasons for this are clear: the cultural diversity, the reasonably priced living space, the wide range of educational opportunities and, last but not least, the personal character and charm of Winterthur offering a high quality of life.



Program «Smart City Winterthur»

Smart City Strategy: Yes (since 2018)

Budget for pilot projects: Yes

Amount per year: >200'000 CHF

The Smart City Winterthur program comprises projects and activities related to Smart City. It is coordinated by the innovation team under the program management of the Smart City Unit (Fachstelle Smart City). Pilot projects are primarily initiated in the city administration's departments. The individual departments essentially determine „bottom-up“ how Smart City Winterthur will develop in alignment with its strategy goals. In addition, projects and activities can also be initiated and applied for by the Smart City Unit and the innovation team. An innovation credit is available for the financing of pilot projects. The program is guided by a steering committee represented by three city councils.

Pilot Projects 2020

Winterthur promotes several Smart City pilot projects every year. Since the strategy was approved in 2018, approximately 20 projects have been supported by the Innovation Credit. In 2021, the City of Winterthur supports three Smart City projects through the Innovation Credit. Some of the implemented projects are:

Smart waste management - electric waste collection vehicle

The first electric collection vehicle for the waste disposal service in the city of Winterthur is a small step on the way to urban and sustainable mobility. Among others, this project focuses on different battery management approaches, the charging method, the power supply as well as the operational requirements and optimisation possibilities of the individual vehicles and the whole fleet.

Digitalised, smart nature discovery office

People in Winterthur find exciting objects, e.g. bones, feathers, stones, plant parts and a lot more. These finds are collected and identified at the “Naturfundbüro” of the “Naturmuseum Winterthur”. This project will enable a digital access to the service and increase the interaction: finders can access data on the finds from outside the museum, leave comments on other finds or receive information on their own finds. This enables direct exchange with experts at the museum and the transfer of knowledge between users in an interactive way.

Climate simulation Lokstadt

Temperatures within the densely built-up urban areas are several degrees higher than in the green countryside. For urban planning, this raises the question of which measures are most effective at which locations for heat reduction. As a pilot area, a computer-modelled climate simulation is being carried out for the Lokstadt in order to test the temperature-reducing effect of various measures on a location-specific basis. The findings from the simulation will be taken into account in the planning of the remaining development stages in the Lokstadt.

Promotion of walking and cycling through data analytics

A smartphone app will be used to record the distances and ways covered by pedestrians and cyclists from anonymous test users and additionally calibrated using bike counting stations. The aim of the project is to create a pedestrian and bike traffic plan, with which conclusions can be drawn about the use of the existing infrastructure and possible further development of the existing network. In addition, it is planned to repeat these data collections periodically in the future in order to better assess the benefit and appropriateness of new investments in the foot and cycle infrastructure.

Winterthur-App

Winterthur has a city app that is in frequent use and is constantly updated. In addition to information, it also offers participation opportunities for residents. For example, citizens can use the “Stadtmelder” to report faults and malfunctions in the infrastructure. The “Quartierleben” module is currently being used in a test area to promote interaction, sharing and exchange between residents.

Research activities

Various research projects in cooperation with ZHAW and other partners

- Scaling Smart City Projects - from Individual pilots towards a Common strategy of industry Emergence (SNSF)
- Virtual Smart City Hero – a Virtual Reality game to raise awareness on smart city hotspots (SFOE)
- Social Power Plus – a mobile application providing feedback on energy consumption at household level (SFOE)

Specific city Excellency in:

- Energiestadt Gold
- Grünstadt Schweiz (Silber)
- No-Littering-Label

Ongoing Partnerships

- ZHAW Zurich University of Applied Sciences
- Smart City Hub Switzerland
- Swiss Union of Cities
- Technopark Winterthur
- House of Winterthur
- energie bewegt Winterthur
- Entrepreneur Club Winterthur

With **WinLab**, Smart City Winterthur invites Public Private People Partnerships to test social and technological innovations supporting the smart sustainable city development.

Sources

» www.stadt.winterthur.ch/smartycity

» www.smartcity-survey.ch