

Smart Cities Vertical

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Tagline

Sustainable urbanization is key to successful development. We focus on solutions that advance the smart technology of businesses and cities.

Vertical Description

Our goal is to maintain a high quality of living and competitive advantage compared to international locations, while at the same time advancing logistics and smart technology solutions that increase the sustainability and resilience of local and global businesses and cities. Through their technologies and products, our startups solve specific innovation challenges defined by corporations and cities in Switzerland and beyond.

Partners

Coop (Global)
La Mobilière (Global)
AXA (Global)
Stadt Zurich (Vertical)
Empa NEST (Fellow)
BFE/SFOE (Vertical)
CSEM (Fellow)
Swisscom (Global)

Technologies

Artificial Intelligence (AI)	Big Data and Data Analytics
Internet of Things (IoT)	Sensors
Robotics	Location Intelligence
Open Source Science & Technologies	Web3
BIM	Confidential Computing
Augmented Reality (AR) / Virtual Reality (VR) / Extended Reality (XR)	

Collaboration Areas

Digital Twins / Data-Driven Initiatives

Energy

Mobility & Logistics

Building and Living

City Services

Net Zero

Collaboration Opportunities

Potential Sustainability Collaboration Opportunities **in bold** (including Circular Economy)

Digital Twin and Data Driven Initiatives

- **Digital twins for waste management.**
- Solutions that improve data models for parametric weather insurance (more accurate data points, sales/claim process).
- Digital twins to trace products within different departments in retail.

Energy

- **Solutions to analyse and implement CO2 and energy-saving potentials in retail processes and production companies.**
- Applications and platforms to identify low-energy pricing for retail companies and beyond.
- **Solutions to reuse the energy output in production lines.**

Mobility and logistics

- Impact of autonomous vehicles on insurance, real estate and society, in the big picture.
- **Ideas to reach a behavioural change towards CO2-neutral cars.**
- Digital services, IT solutions and platforms (incl. IoT, MaaS), or AI algorithms to improve mobility, parking and logistics challenges.
- Solutions/technologies to manage passenger crowds to speed-up passenger exchange at public transport stops.
- Solutions/technologies to improve mobility flows prediction.
- Solutions/technologies to forecast the demand and supply in consumer goods production.
- New technologies to make the logistics processes in distribution centres (picking/delivery) fully automated, more efficient and user friendly.

City Services

- Digitalisation of city services for citizens (e.g. blended counseling, conversational interfaces) and/or employees.

Building and Living

- **Sustainable ways of designing new buildings (VR, AI etc) with easy usage and application.**
- Solutions to integrate, process and visualize data (e.g. publicly available information on land, buildings, changes in land register) in the property insurance.
- Solutions to support people in their new ways of living (remote work, second home, co-living, downsizing etc.)

Net Zero

- **Ways to communicate, summarize and report circular offers (e.g. reuse, reselling and upcycling of objects and goods) to citizens (citizen engagement) and employees (comparability, demand-based service procurement, etc.).**
- **Ideas to support net zero CO2 emission goals of cities (e.g. city planning, management).**
- Green IT services and solutions to better assess, measure, and achieve CO2 reductions (esp. data centers, workplaces, IT-infrastructure).
- **New ideas and technologies for disposal and recycling processes in logistics and retail.**

Overview of Collaboration Opportunities 2023 - Smart Cities

A. Digital Twins and Data Driven Initiatives	B. Energy	C. Mobility and Logistics	D. City Services	E. Building & Living	F. Net Zero
<p>*A1 - Digital twins for waste management.</p> <p>A2 - Solutions that improve data models for parametric weather insurance (more accurate data points, sales/claim process).</p> <p>A3 - Digital twins to trace products within different departments in retail.</p>	<p>*B1 - Solutions to analyse and implement CO2 and energy-saving potentials in retail processes and production companies.</p> <p>B2 - Applications and platforms to identify low-energy pricing for retail companies and beyond.</p> <p>*B3 - Solutions to reuse the energy output in production lines.</p>	<p>C1 - Impact of autonomous vehicles on insurance, real estate and society, in the big picture.</p> <p>*C2 - Ideas to reach a behavioural change towards CO2-neutral cars.</p> <p>C3 - Digital services, IT solutions and platforms (incl. IoT, MaaS), or AI algorithms to improve mobility, parking and logistics challenges.</p> <p>C4 - Solution/technologies to manage passenger crowds to speed-up passenger exchange at public transport stops.</p> <p>C5 - Solutions/technologies to improve mobility flows prediction.</p> <p>C6 - Solutions/technologies to forecast the demand and supply in consumer goods production.</p> <p>C7 - New technologies to make the logistics processes in distribution centres (picking/delivery) fully automated, more efficient and user friendly.</p>	<p>D1 - Digitalisation of city services for citizens (e.g. blended counseling, conversational interfaces) and/or employees.</p>	<p>*E1 - Sustainable ways of designing new buildings (VR, AI etc) with easy usage and application.</p> <p>E2 - Solutions to integrate, process and visualize data (e.g. publicly available information on land, buildings, changes in land register) in the property insurance.</p> <p>E3 - Solutions to support people in their new ways of living (remote work, second home, co-living, downsizing etc.)</p>	<p>*F1 - Ways to communicate, summarize and report circular offers (e.g. reuse, reselling and upcycling of objects and goods) to citizens (citizen engagement) and employees (comparability, demand-based service procurement, etc.).</p> <p>*F2 - Ideas to support net zero CO2 emission goals of cities (e.g. city planning, management).</p> <p>F3 - Green IT services and solutions to better assess, measure, and achieve CO2 reductions (esp. data centers, workplaces, IT-infrastructure).</p> <p>*F4 - New ideas and technologies for disposal and recycling processes in logistics and retail.</p>

Potential Sustainability Collaboration Opportunities are marked with * (including Circular Economy)