

Collaboration Opportunities: Smart Cities and Infrastructure

Kickstart partners for each vertical shared a focus of the **possible collaboration opportunities** below for 2018. Startups may to apply for the specific opportunities mentioned as well as others if they can suggest specific collaboration via application connected to areas and technologies.

Overview:

- eGovernment identity management
- Engagement of citizens
- Circular Economy
- Renewable energy sources and batteries operation & maintenance
- Smart integrated tourism platform
- BIM application for city planning & predictive maintenance
- Smart infrastructure planning & capacity forecasting
- Optimised residential travel times and transportation types
- Smart traffic management for pollution reduction
- Smart parking solutions for industrial areas
- Smart mobility solution for infrastructure management
- City maintenance & operations
- Dynamic pricing for city services
- Easy access to digital city offering
- Energy consumption reduction
- Renewable sources increase in the energy mix

Descriptions:

- **eGovernment identity management**

Today, most of the government services are highly fragmented and rely on personal identification. Especially in Switzerland, where government services are managed by the country-, canton- and city government. A smart solution

that can integrate a trustful and unique residential identity and integrate with multiple government systems to provide a digital and persistent experience for residents would increase efficiency heavily

- **Engagement of citizens**

Participation and involvement of citizens - incentive systems for sustainable behavior - peer-to-peer solutions - quick feedback mechanism

- **Circular Economy**

Sustainable consumption - sharing solutions - waste management – delivery-logistics

- **Renewable energy sources and batteries operation & maintenance**

Identification of photovoltaic systems using satellite images - battery management (maximization of own consumption, peak shaving and emergency power) - incentives and enabling renewable energy producers to contribute to safe and efficient grid operation

- **Energy consumption reduction**

Better use of energy: Do more with less while guaranteeing safe and comfortable living environment. Energy storage solutions for mobile and non-mobile applications

- **Renewable sources increase in the energy mix**

Production of renewable energy which integrates well into urban environment

- **Smart integrated tourism platform**

Integrated platform for visitors and tourists (public transport, culture offerings, background information about sights, ...)

- **BIM application for city planning & predictive maintenance**

Building Information Modelling - visualization AR/VR - predictive maintenance of city infrastructure – support for planning phase

- **Smart Infrastructure planning & capacity forecasting**

Infrastructure projects tend to require a long lasting political process to get funded. That requires even more accurate forecasting of capacity demands. Leveraging new technologies like big data analytics and machine learning should increase accuracy of capacity forecasting model

- **Optimized residential travel times and transportation types**

Today, most information about transportation are available online, but in dedicated data bases. Leveraging public available information in order to optimize travel times and transportation types based on personal schedules (such as you corporate account, etc.) would allow residential to spend less time travelling

- **Smart traffic management for pollution reduction**

Leveraging big data and machine learning algorithm to reduce pollution caused by traffic

- **Smart parking solutions for industrial areas**

With automatic parking systems, the storage space can be optimized, because cars can park closer together. But in industrial areas quite a few cars arrive at the same time and automatic systems can only deal with few cars at the same time. How can an automatic system manage the rush hours in parking more clever?

- **Smart mobility solution for infrastructure management**

Real time capacity measurements – e-mobility infrastructure operation and maintenance (eg. storage, load balancing) – comprehensive solutions - integration of logistics solutions and infrastructure

- **City maintenance & operations**

Maintenance and operations of city assets (streets, solar panels, trees, bikes, waste) and services based on existing public infrastructure (public lighting, power distribution cabins, public buildings, public administration vehicle fleet / bicycles, LoRa Network)

- **Dynamic pricing for city services**

Pricing and payment solutions for city services (eg. fees for permits, parking, public transport, cultural offerings, concessions, registrations, fees)

- **Easy access to digital city offering**

Digital offer and customer guidance. Focus: easy Access to social services – multichannel contact management and arrangement of appointments – intelligent search – multilingual customer management

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