

The Digital Strategy and Digital Twins in Turku

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The Digital Strategy

• Digital services for citizens is must.

"The services are available digitally, can be tailored to individual needs and made available proactively."





Digital City

- The development of digital city is guided with several long term target documents
 - information management strategy
 - data and digi strategy

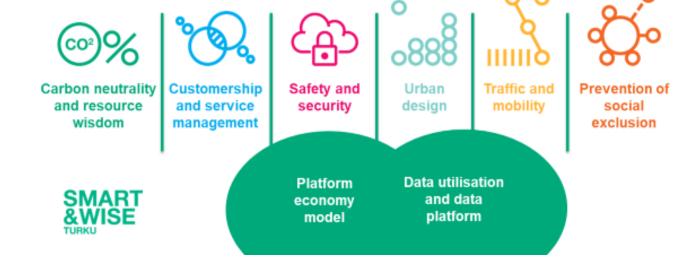




Smart City

 Smart City concept launched 2018 in Turku city's spearhead program, Smart and Wise Turku

6 focal points





We build castles on the clouds of the clouds

- Proactive urban planning
- Digital twin city
- Smart construction and intelligent buildings





Urban Design

- Managing city data model
 - Creating the model and concept and processes for managing the data model
- Twin city model
- Create a visual 3D-model of buildings
 - Hidden infra; underground infra; only for internal use, data security important
 - Smart Twin containing more than just building frames eg. metadata about the buildings.





Several Twin Cities

- 3D-models contains partly the processes of city and behavior of citizens.
- Scenario tools for public safety, noise management, air quality, surveillance camera blind spots, safe mobility & traffic, lightning sun-shadow, big events, living conditions etc.





Several Twin Cities

- Experimentations in different city areas
 - Harbour area and Linnanniemi (living, mobility, museums)
 - Kupittaa (mobility, locations of services)
 - All city areas; air quality measures, traffic, green areas etc.













Issues

- Data interoperability and usability;
 - data can be used for simulations and analysis,
 it can be combined and it is easy to use.
- Digital data security
 - how to ensure?
 - different levels of data visibility: public data, critical non-public / secret data only for admin purposes





Future platform of services

- Twin City is not anymore future, it's part of our life and we go deeper there.
- Challenge what we mean with digital twin city.
 Several meanings for digital twin.
- Heavily developing currently.







Thank You