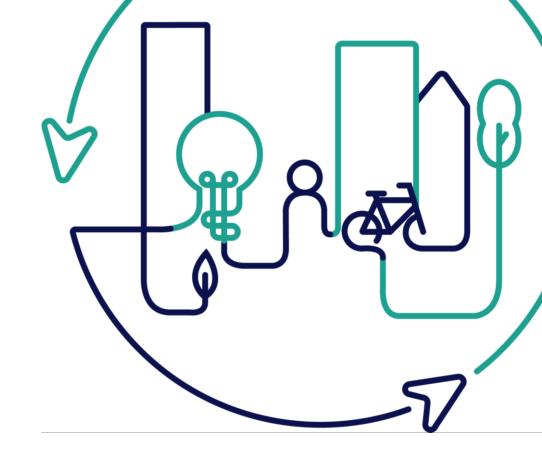
EUROPEAN U R B A N INITIATIVE





Workshop 8 - Tallinn Digital Twin

Enhancing the accessibility and value of data to create useful tools for city planning

Markus Annilo, Digital Twin Technology Manager Stina Heikkilä, EUI Session Moderator





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How familiar are you with the Digital Twin concept?

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What best describes your area of work?

AIMS OF THIS SESSION

▶ Understand the concept of Digital Twins through the experience of Tallinn

➤ To discuss and map the role of Digital Twins in fostering innovation ecosystems for sustainable urban development

Digital twin and Tallinn

Markus Annilo



What could be considered a digital twin?







Digital twin?

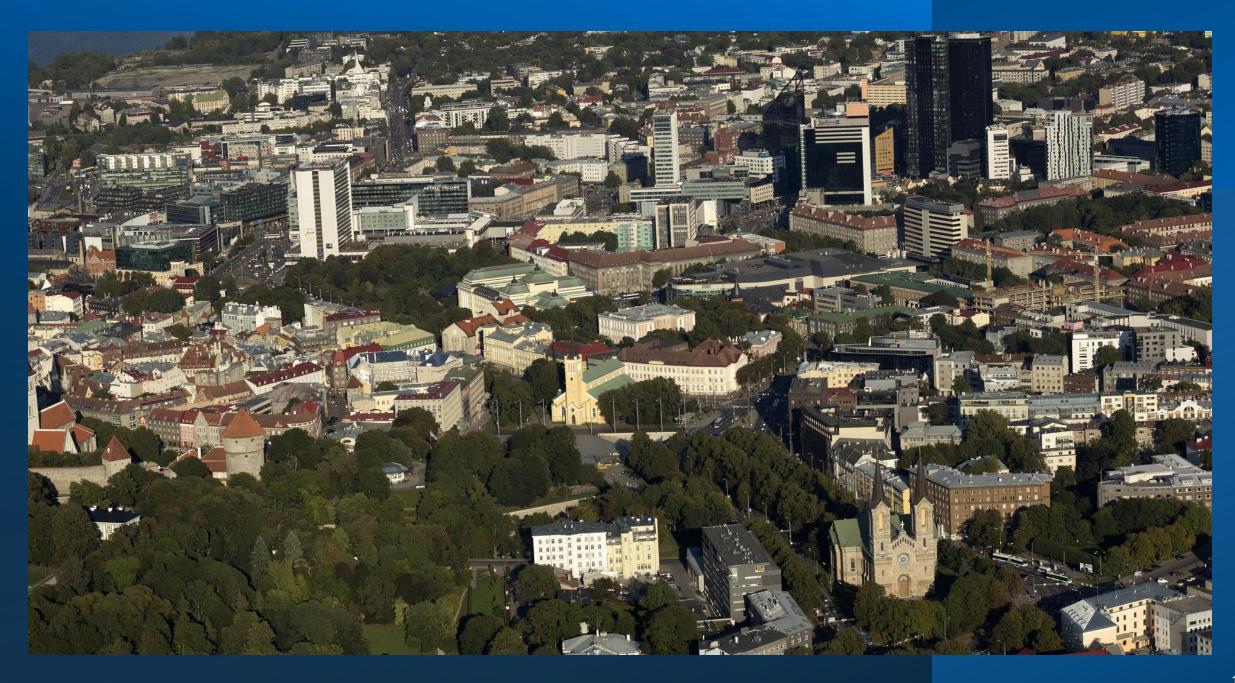
A virtual model of a real system that is in constant sync with its physical counterpart

IEEE/ISO standard 26531:2015 "Standard Terms and Definitions for Intelligent Manufacturing Systems"



What about Tallinn's digital twin?











How to build a platform?

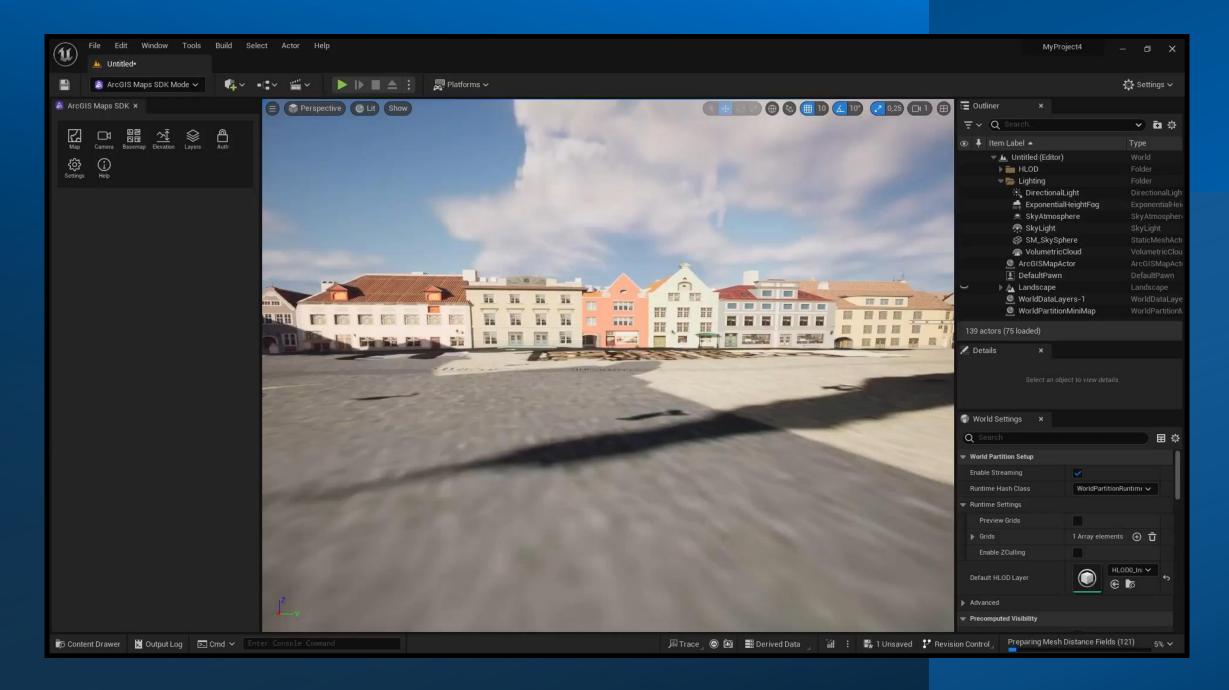
Data management and collection

Analysis and operation of technical systems

Decision-making and development of Tallinn

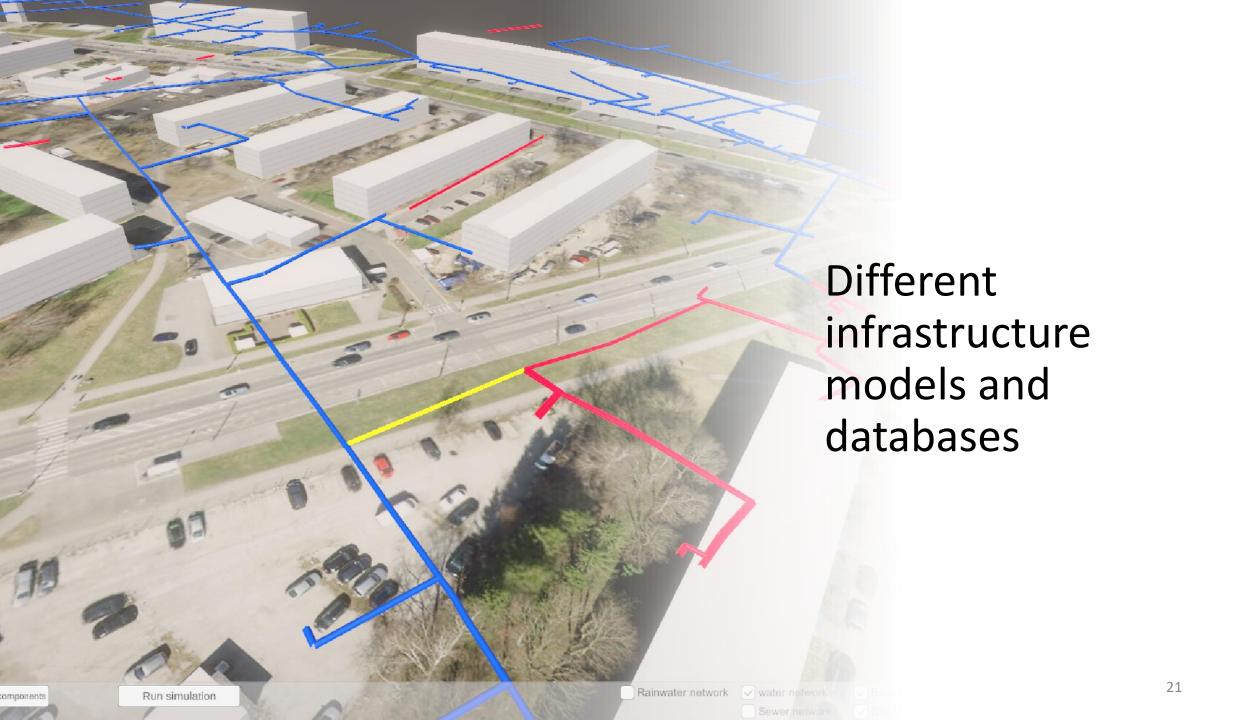


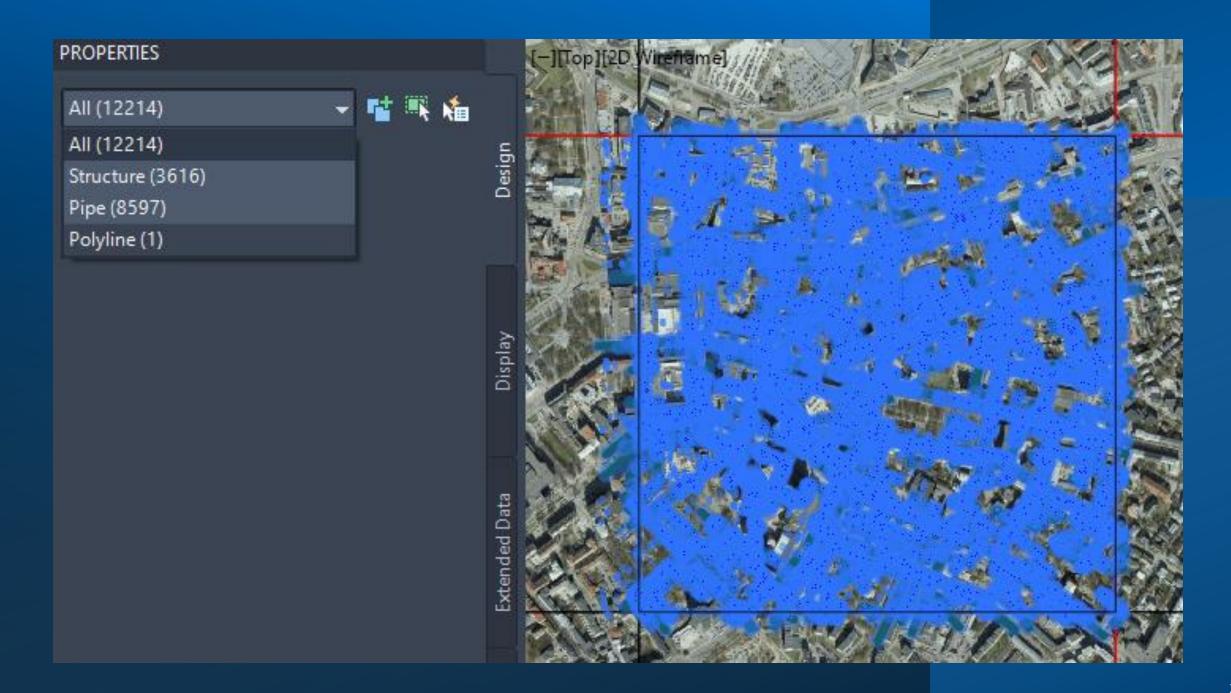


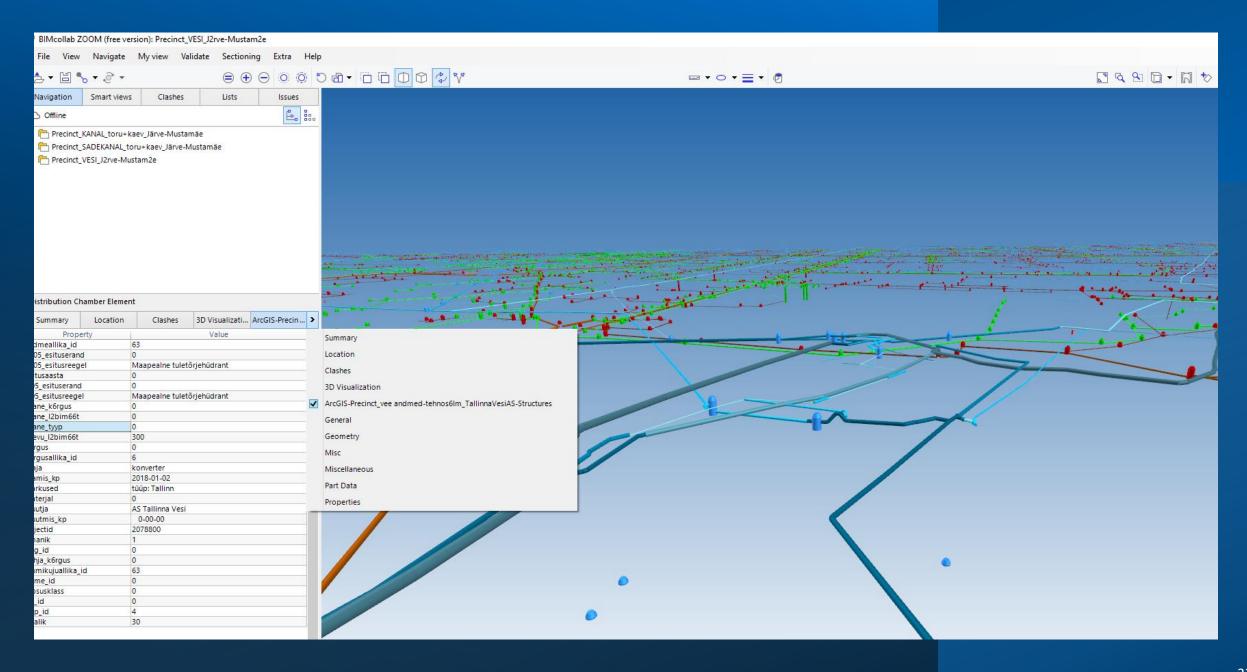


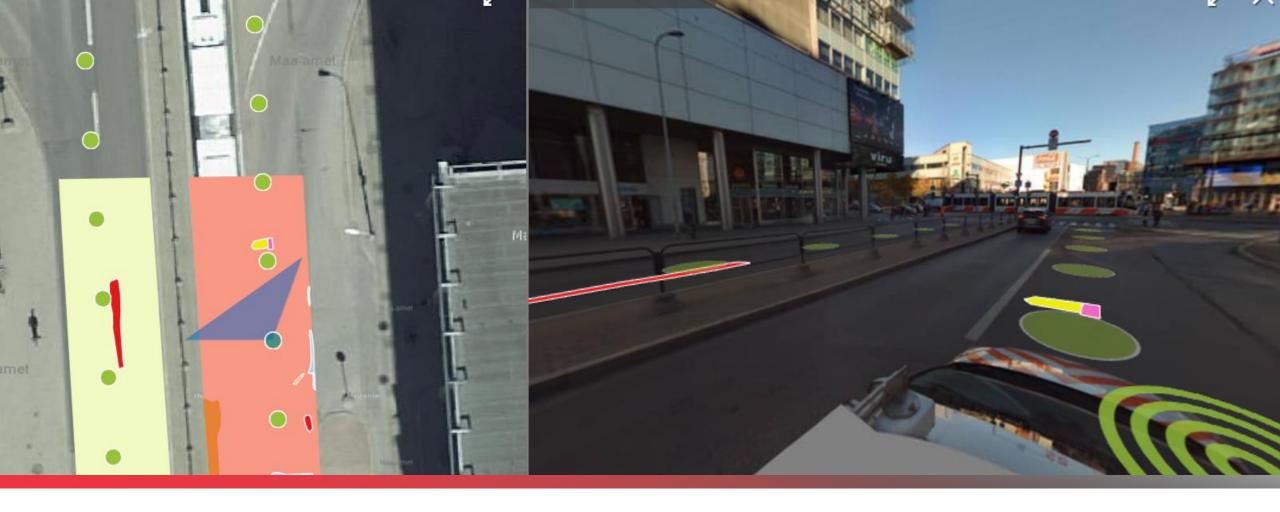
3d.tallinn.ee











New technologies for data and their processing













Digital twin for citizen



What's next?

- First available services.
- Cooperation and open communication with different parties.
- Web portal for digital twin

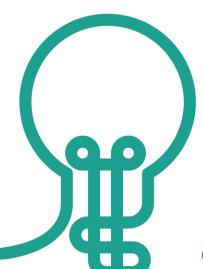


Thanks!



Markus Annilo

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LINKING DIGITAL TWIN TECHNOLOGY TO

INNOVATION ECOSYSTEMS & SUSTAINABLE URBAN DEVELOPMENT

▶ Some ideas...

Governance

Efficient use of public funds (e.g. shortened planning processes)

Improved public engagement in city planning

Environment & Climate

Improved traffic planning to minimise air pollution and CO2 emissions

Improved spatial planning to help nature protection

Improved Climate
Change Adaptation and
Disaster Risk Reduction
and Prevention

Social and cultural

Improved accessibility (e.g. access for people with disabilities, child-friendliness)

Simulation of planning concepts (e.g. 15 min city)

Cultural heritage conservation (e.g. post conflict)

Economy

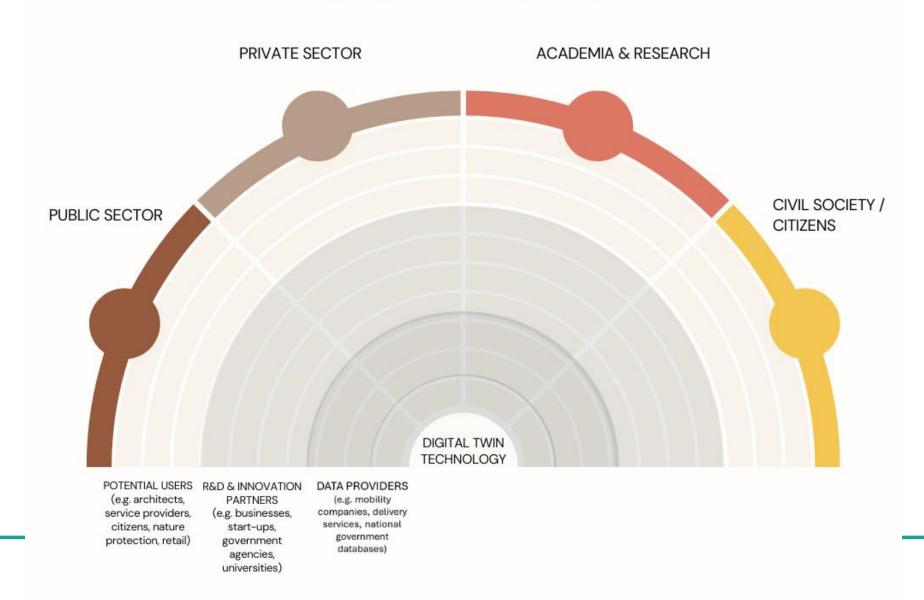
Business development support

Planning retail locations

Attracting international R&D

LET'S MAP THE ECOSYSTEM

INNOVATION ECOSYSTEM MAPPING



➢ HOW WE WILL WORK – 30 minutes

Gather in **groups of 4-5** around the canvases

Introduce who you are and your area of work and experience with Digital Twins and /or Innovation Ecosystems, as relevant

Discuss **one possible impact area at a time** and map who could be the different actors in the ecosystem around digital twin technology

Share your insights with the big group



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Where do you see the highest potential for impact towards sustainable urban development provided by Digital Twins technology?

What's next?

09:45 Interactive Workshops

10:15 Coffee break

11:30 Meet the cities and funders

12:30 **Lunch**

14:00 Making it all happen

15:30 What's next?

16:00 Closing together

Thank you

