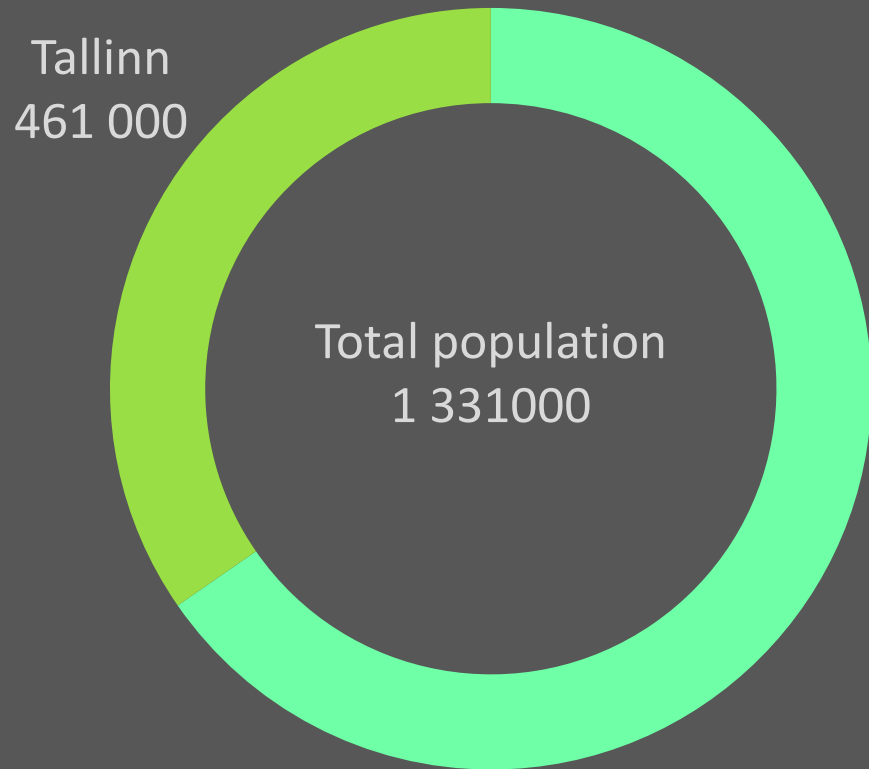


# GEOBIM 2023!



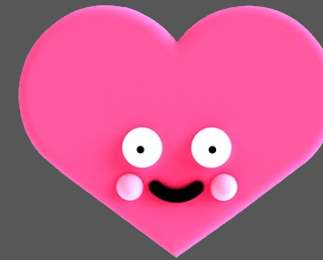
**Tallinn**

# Estonia and Tallinn

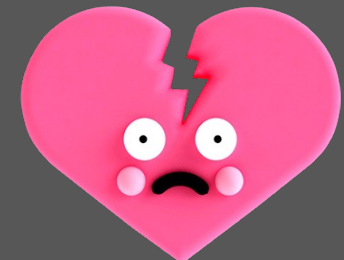


Two off-line services

MARRIAGE



DIVORCE



Three digital twins

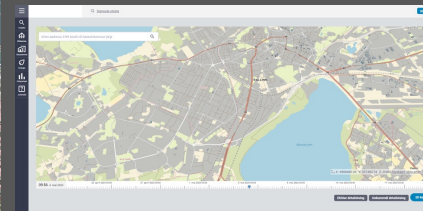
[3d.tallinn.ee](http://3d.tallinn.ee)



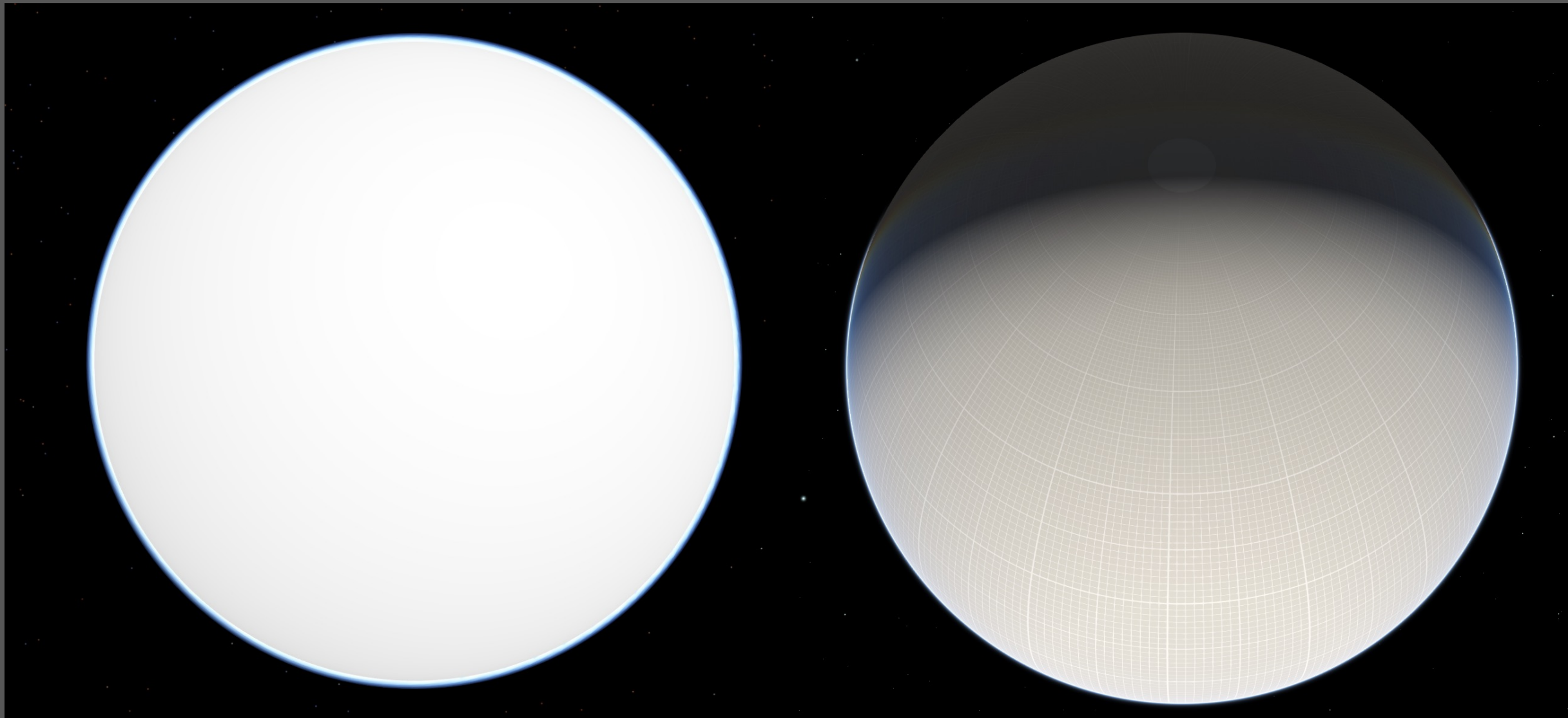
[3d.maaamet.ee](http://3d.maaamet.ee)



[ehr.ee](http://ehr.ee)



Last fall...



# Framework of Tallinn's digital twin

## DATA CAPTURE AND DATA FLOW



## DATA MANAGEMENT AND ANALYSIS



## DECISION MAKING



# DIGITAL SHADOW

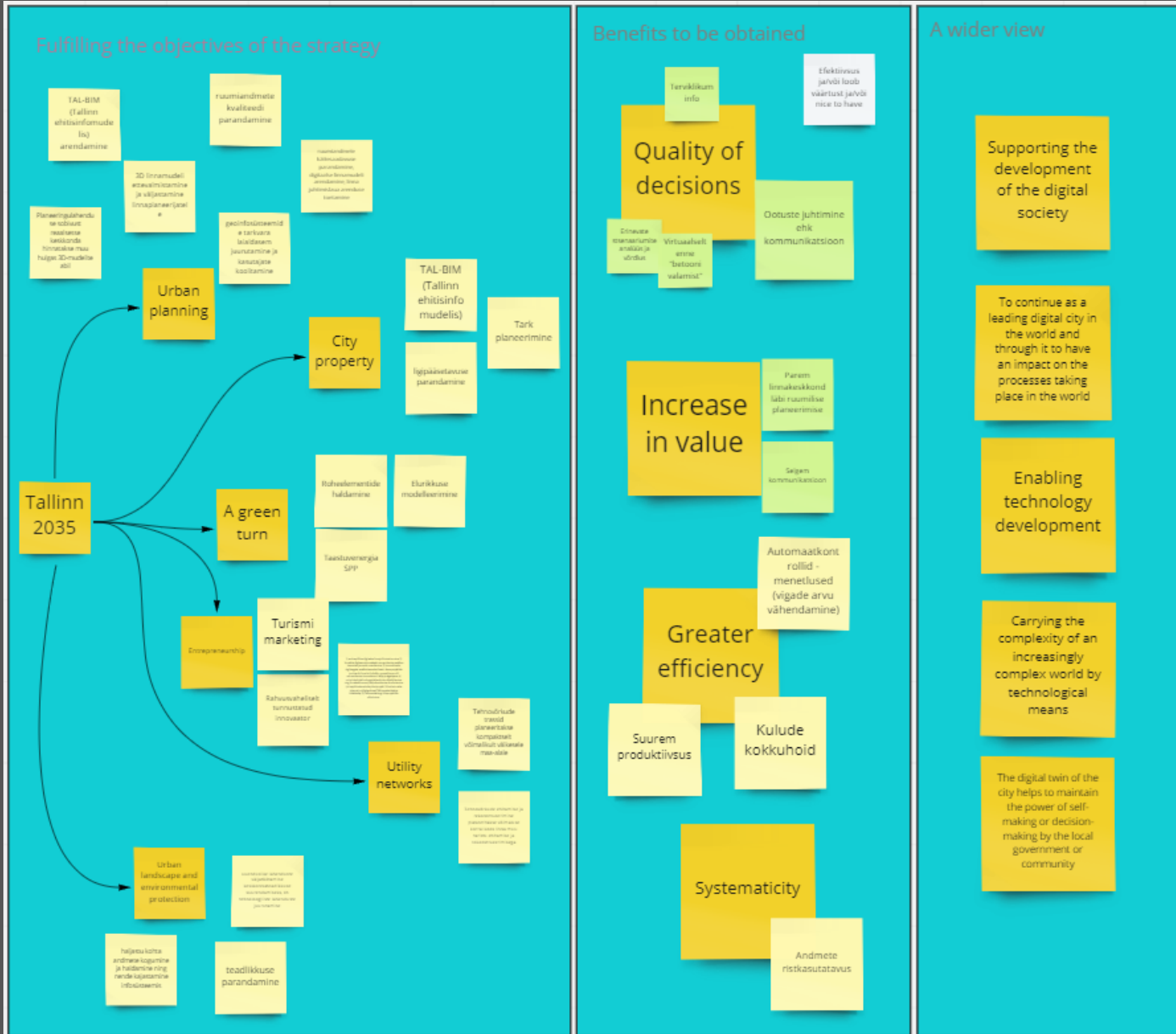
- Remote sensing lidar ja fotogrammetrics
- Aerial-, mobile- ja terrestrial
- IoT sensors
- Self-driving cars

- Analytics
- Parametrical
- Algorithms
- Digital bots

- Artificial intelligence
  - Machine learning
  - Deep neural network
  - Machine vision
  - etc

Digital twin  
*System of spatially enabled technologies– The technological foundation of a smart city*

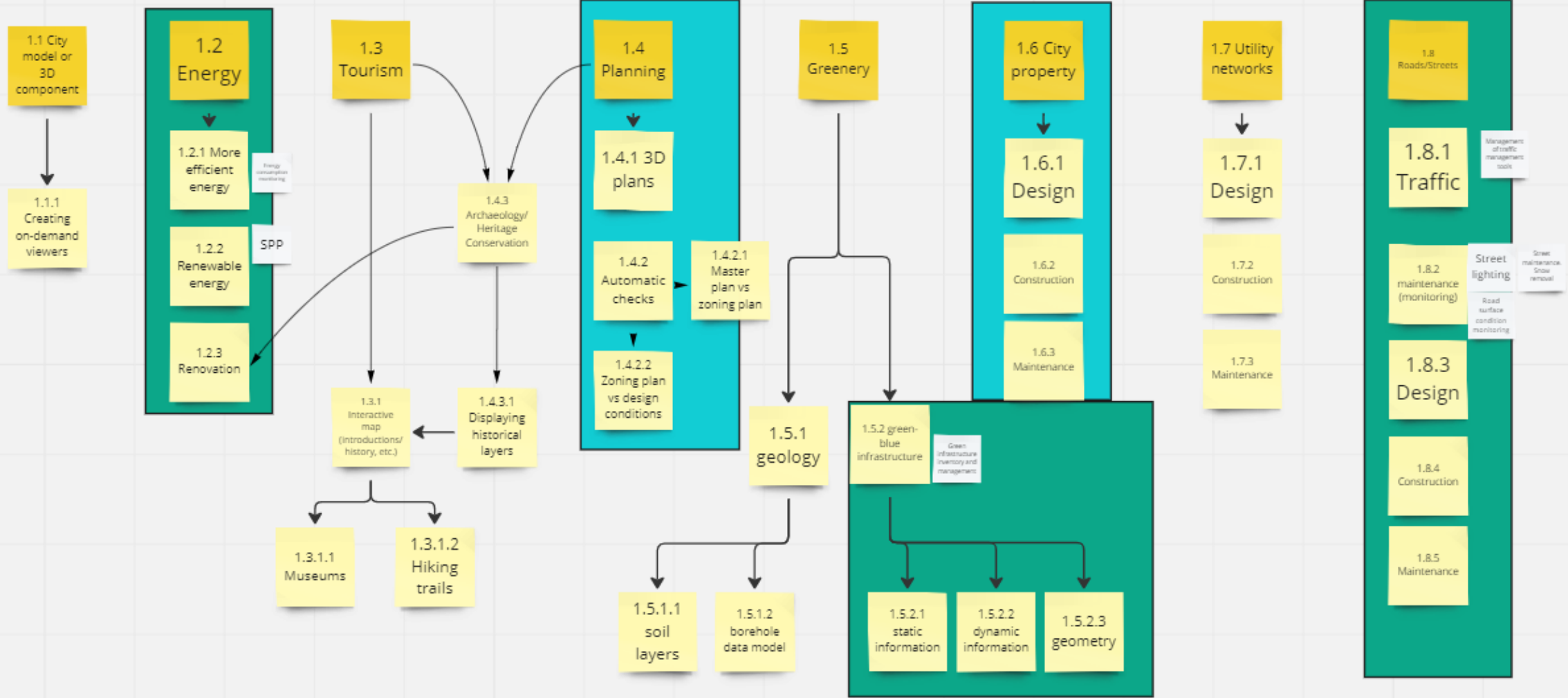
# Why Tallinn digital twin



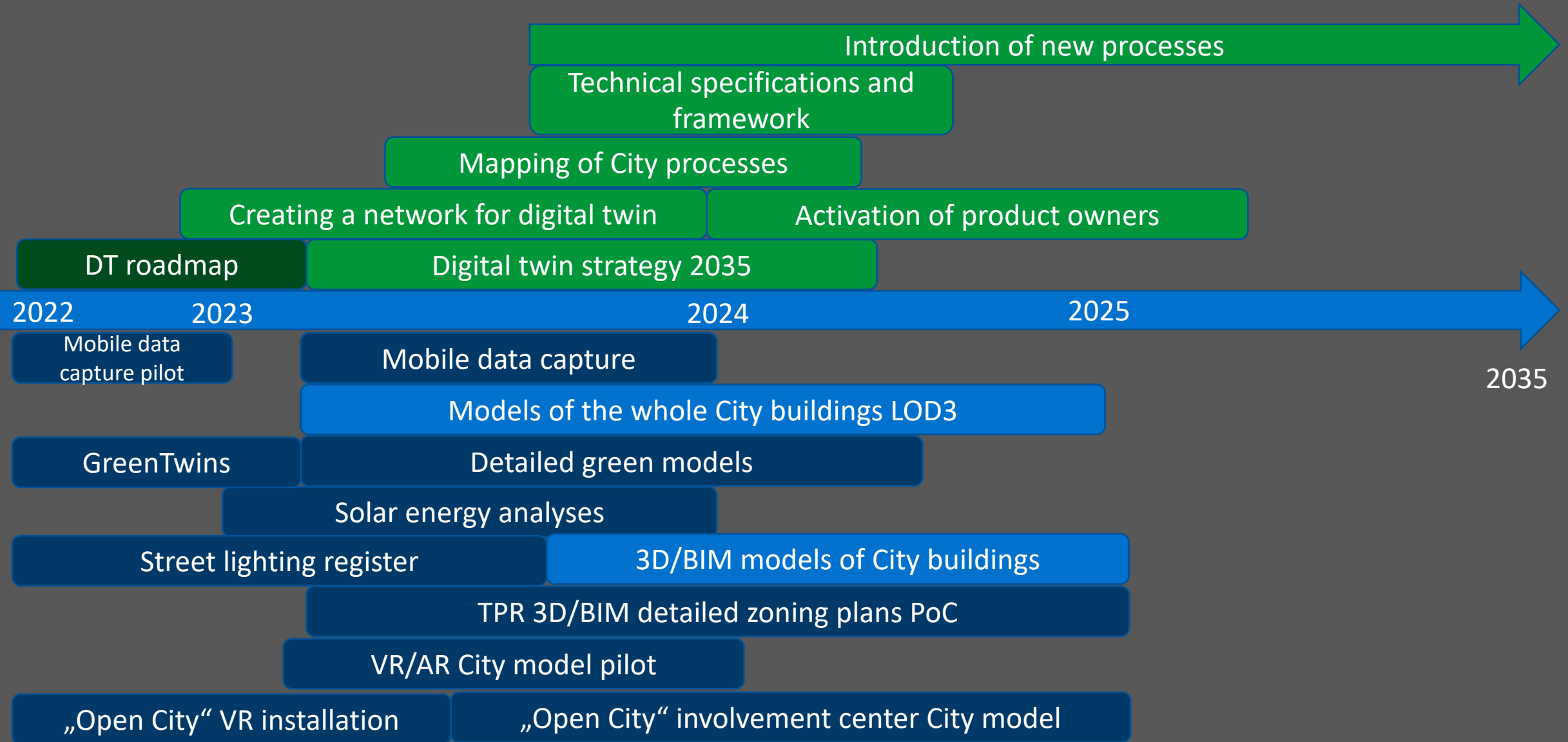
- ## Advantages of Tallinn – Test in Tallinn
- Digital society
  - Private sector
  - City size
  - Cooperation with Helsinki
  - Education and research institutions
  - Proximity to the state level

# Tallinn digital twin platform (sketch)

1. Digital twin "building blocks"



# ROADMAP



# BIM based detail zone planning (automated checks)





Thank You!  
[3d.tallinn.ee](http://3d.tallinn.ee)



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