



REPUBLIC OF ESTONIA  
MINISTRY OF ECONOMIC AFFAIRS  
AND COMMUNICATIONS

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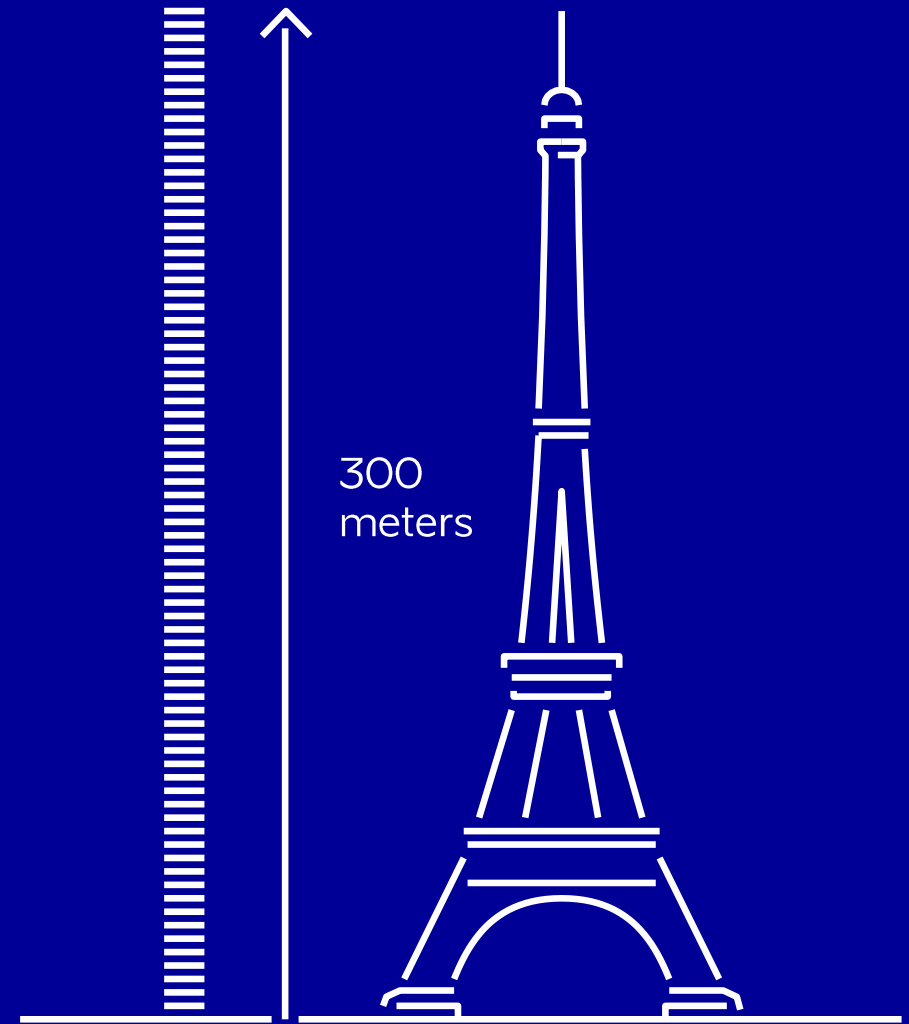
## Estonian E-construction Plaform



This project has received funding from the European Union's H2020 programme under Grant Agreement N. 856943

# we are a digital society

- + 'the most advanced digital society in the world' — WIRED Magazine
- + 99% state services are online
- + digital signatures save 2% of GDP
- + a few hours to start a company
- + hassle-free e-taxation, e-voting, e-residency etc.



A stack of paper saved each month

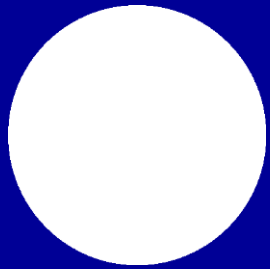


# building registry

Digital database of **the built environment**

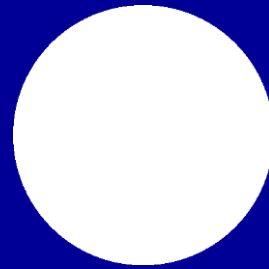
- + 100% digital building permit process since 2016
- + over 3 million data requests monthly
- + over 32k procedures handled yearly

# role of government



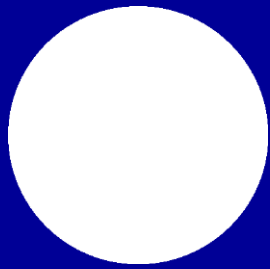
## Legislation

Direct and influence adoption of new solutions using relevant legislation



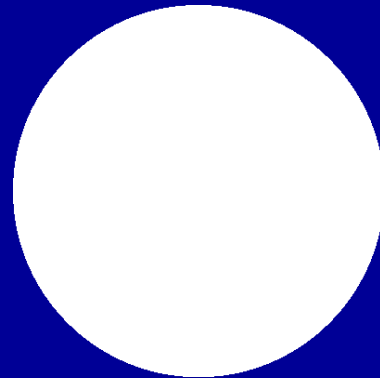
## Process improvement

Map and improve existing processes, support adoption of new tools and methods



## Education

Develop educational curriculums and government orders to develop skills for innovative



Create the environment for secure and reliable data exchange

>> e-construction platform

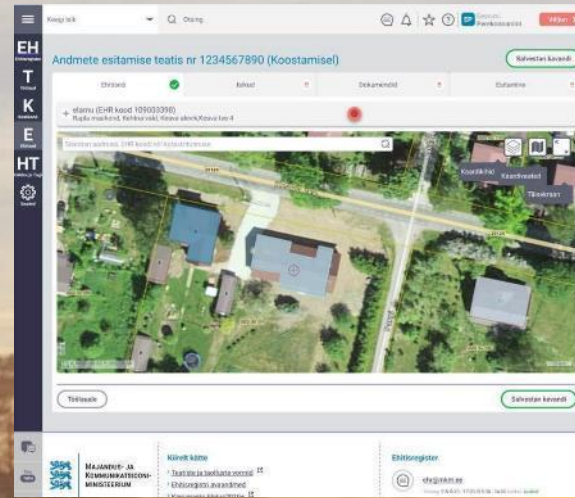


# e-construction platform

lossless **exchange of standardized and trustworthy data** between all stakeholders throughout the building lifecycle

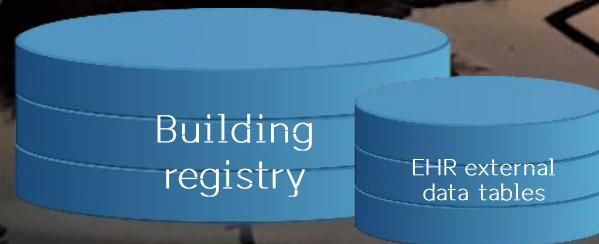
- + connecting built environment data and services
- + Better data = better decisions
- + make BIM business as usual
- + more efficient and transparent public processes
- + added value from **new digital products and services**



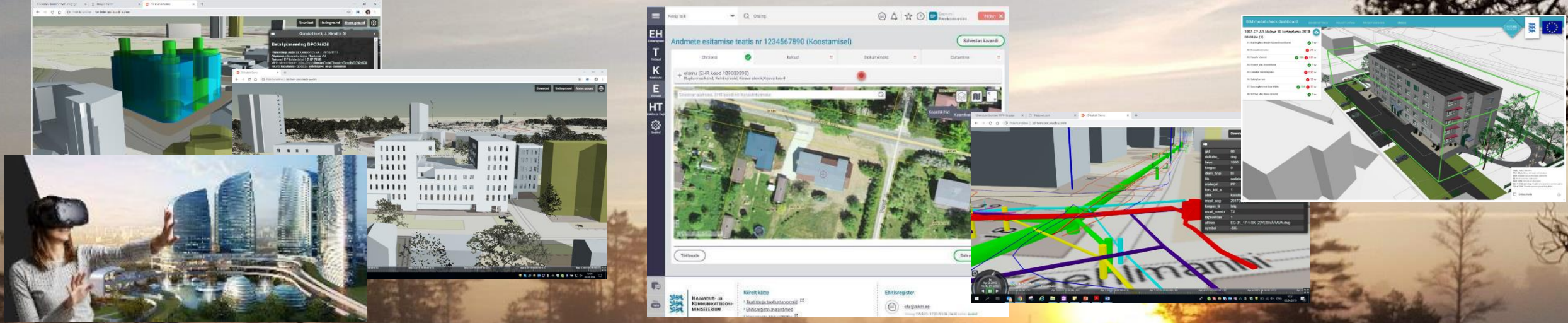


- Building permit application
- Construction notification service
- Usage permit application
- My buildings
- ...

### Building Registry (EHR) services







- ... ..
- VR/AR services
- Construction diaries
- Detail plan (zoning) application
- ...
- Digital Twin visualization
- Data conversion and import/export
- ... ..
- Building permit application
- Construction notification service
- Usage permit application
- My buildings
- ... ..
- Land survey services
- Utility connections
- ...
- BIM-based automated checking process
- Emergency access points
- ...
- ... ..

Private sector

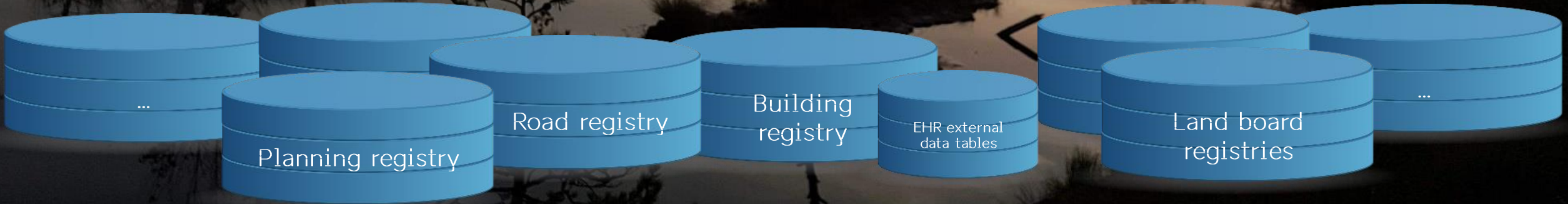
Other public services

Digital Twin services

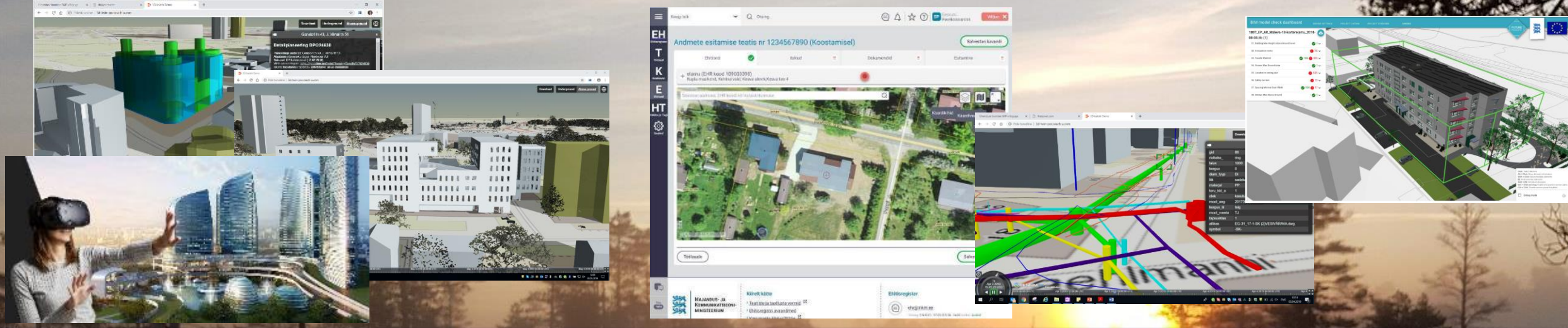
Building Registry (EHR) services

Utility Network (VRA) services

BIM services



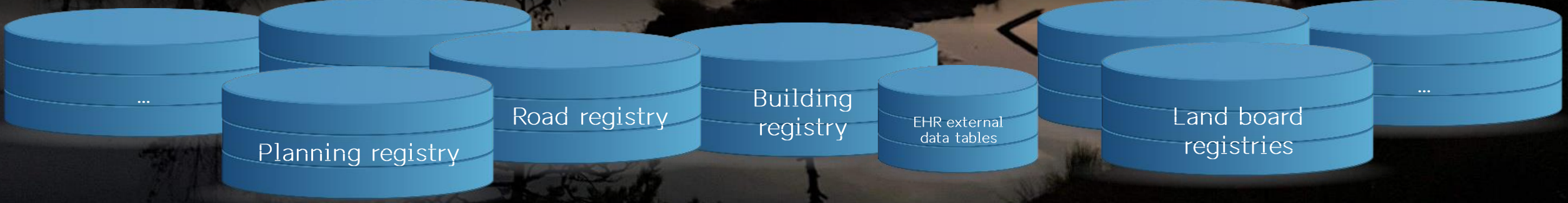




# e-construction platform

Common architecture, language, philosophy

Private sector    Other public services    Digital Twin services    Building Registry (EHR) services    Utility Network (VRA) services    BIM services





# Link to DigiPLACE RAF



## Reference Architecture Framework for construction digital platforms

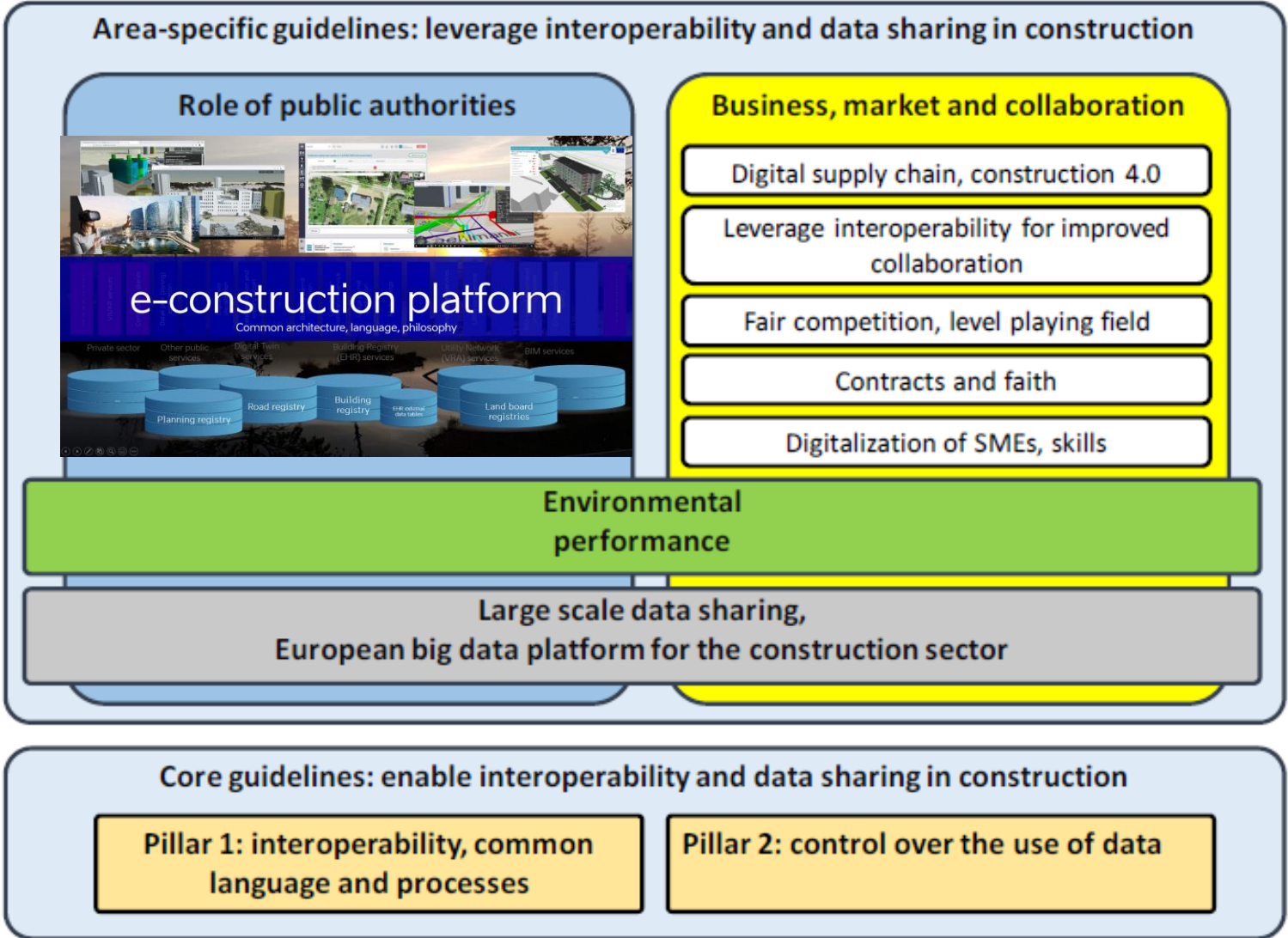


Figure 5: Structure of the Reference Architecture Framework

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# THANK YOU!



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