### Testbed for supporting lifecycle 3D geodata and BIM-data

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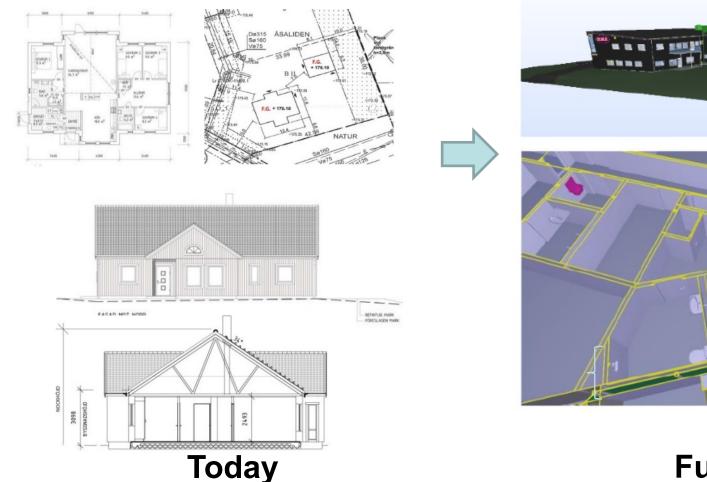


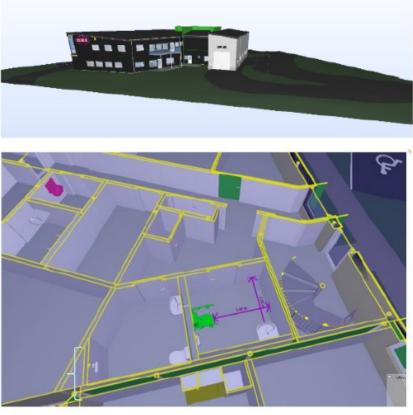
## (1) Three new requirements on NMAs and municipalities

## (2) Test bed for coping with these new requirements

### 1) Improve the sharing of information

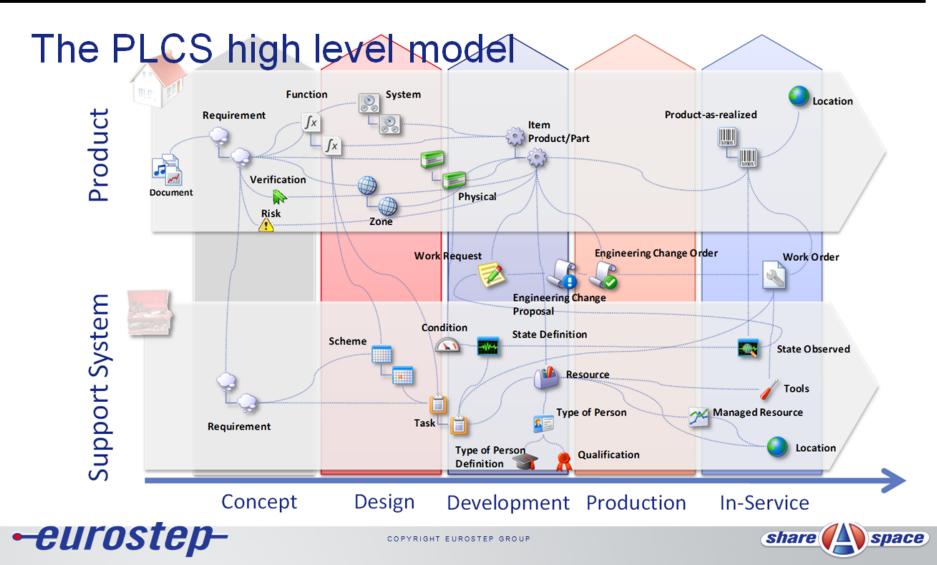
Example: New data exchange for the building permit process



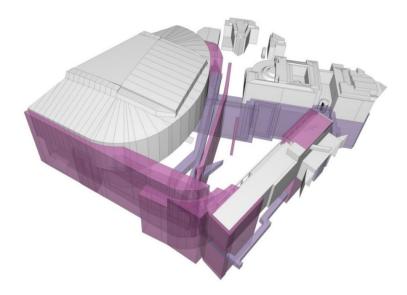


Future

# 2) Linkage to BIM data stored as life cycle data



## 3) Authority decisions are made on BIM models

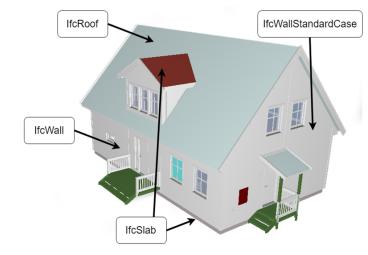


#### 3D Cadastre formation using BIM model

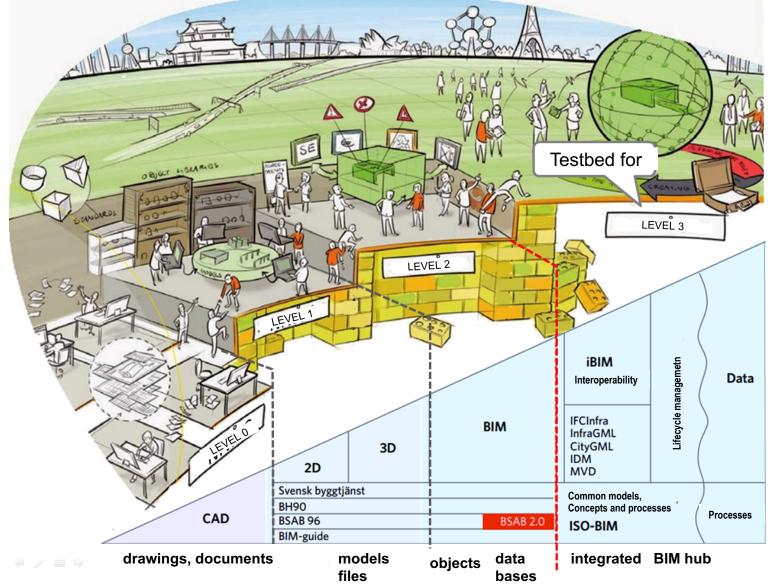
Andrée, Pålsson, Paasch, Seipel et al., 2017

## Rule cheking in the building permit process

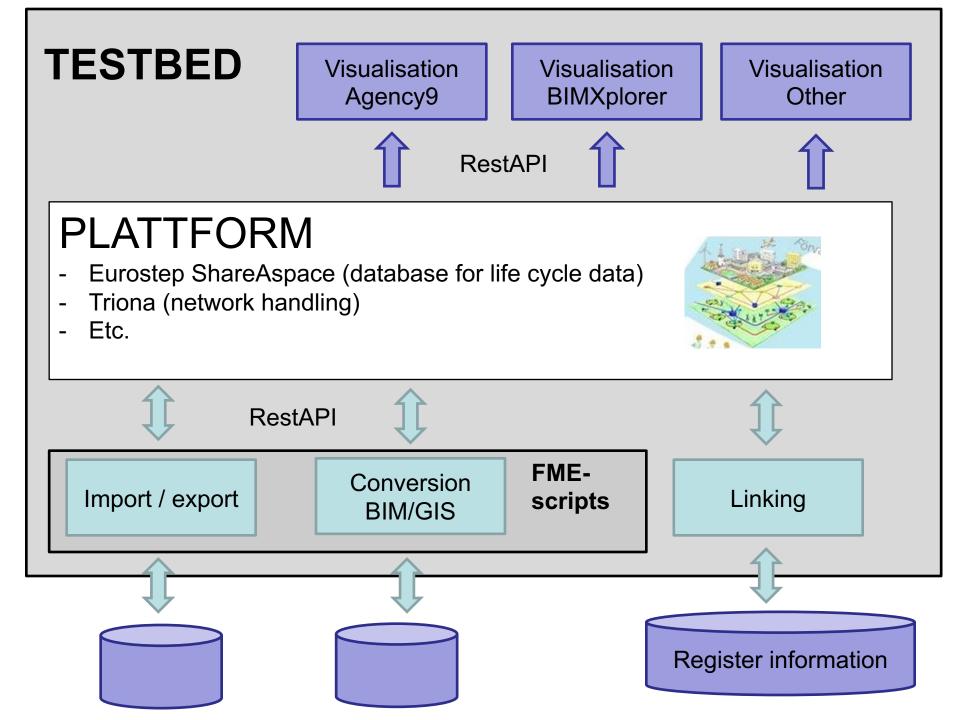
OLSSON P.-O., AXELSSON J., HOOPER M., HARRIE L., 2018. Automation of Building Permission by Integration of BIM and Geospatial Data. ISPRS Int. J. Geo-Inf. Vol. 7, pp. 307-328.

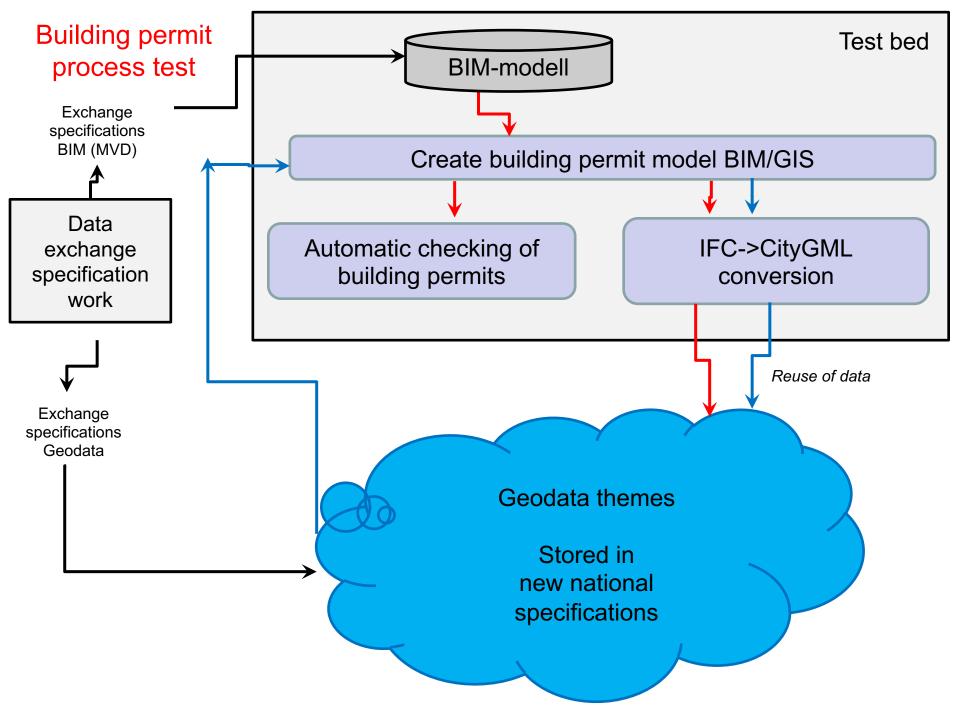


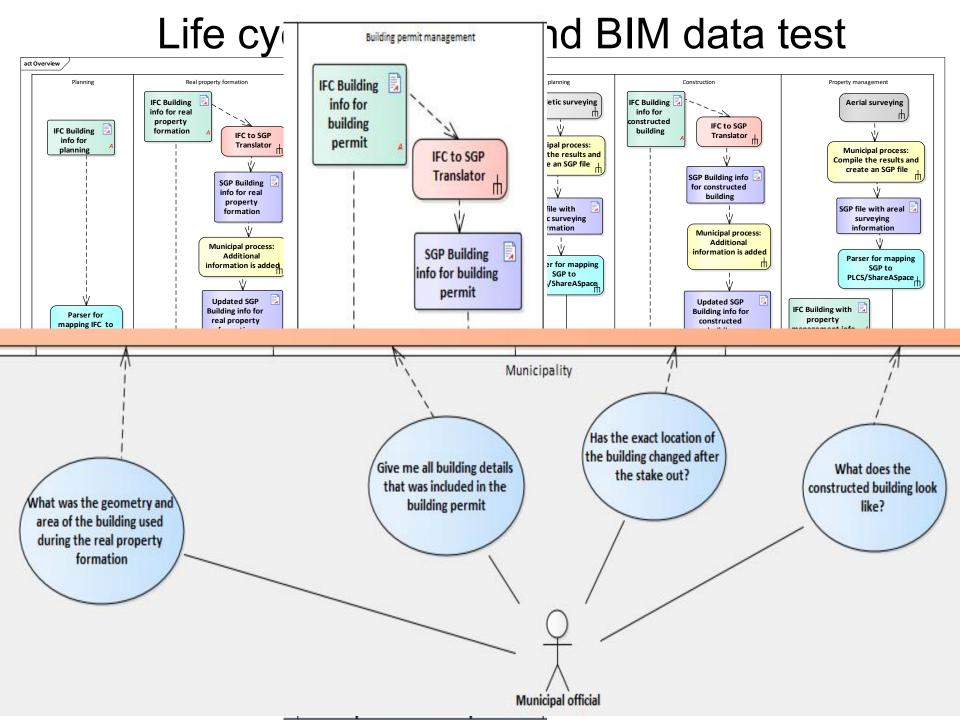
### Testbed: Smart planning, design, construction, operation and use processes over the whole life cycle



BIM levels after British Standards Institute (from ARCADIS adapted to Swedish standards)







### Questions?





## SMART BUILT ENVIRONMENT

