

What kind of data is needed for a digital building permit application process?

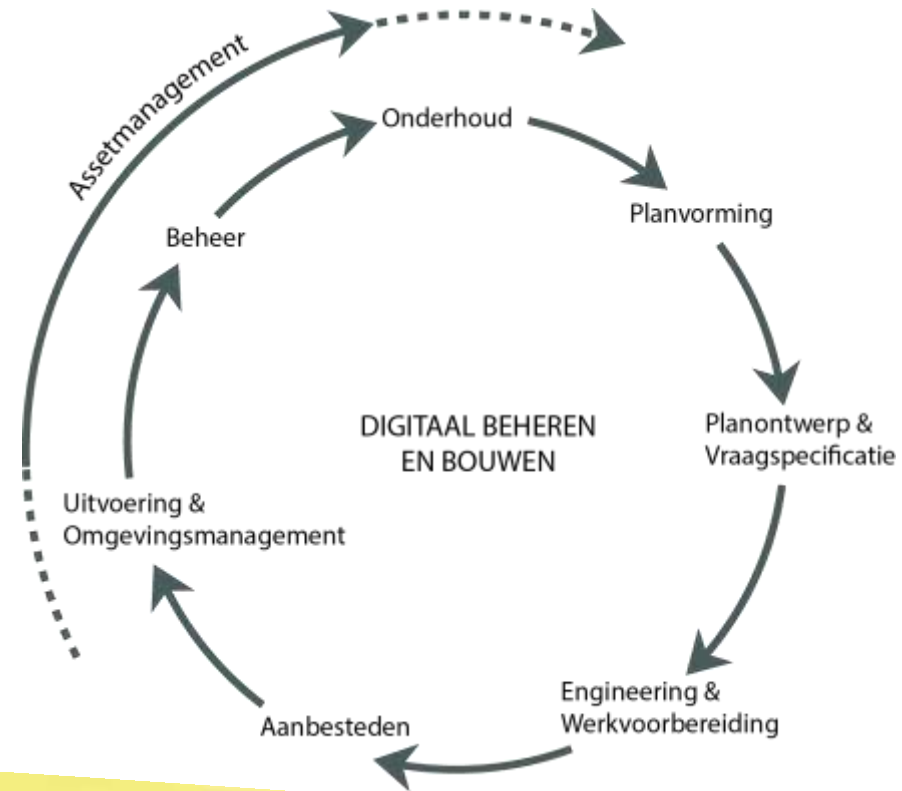
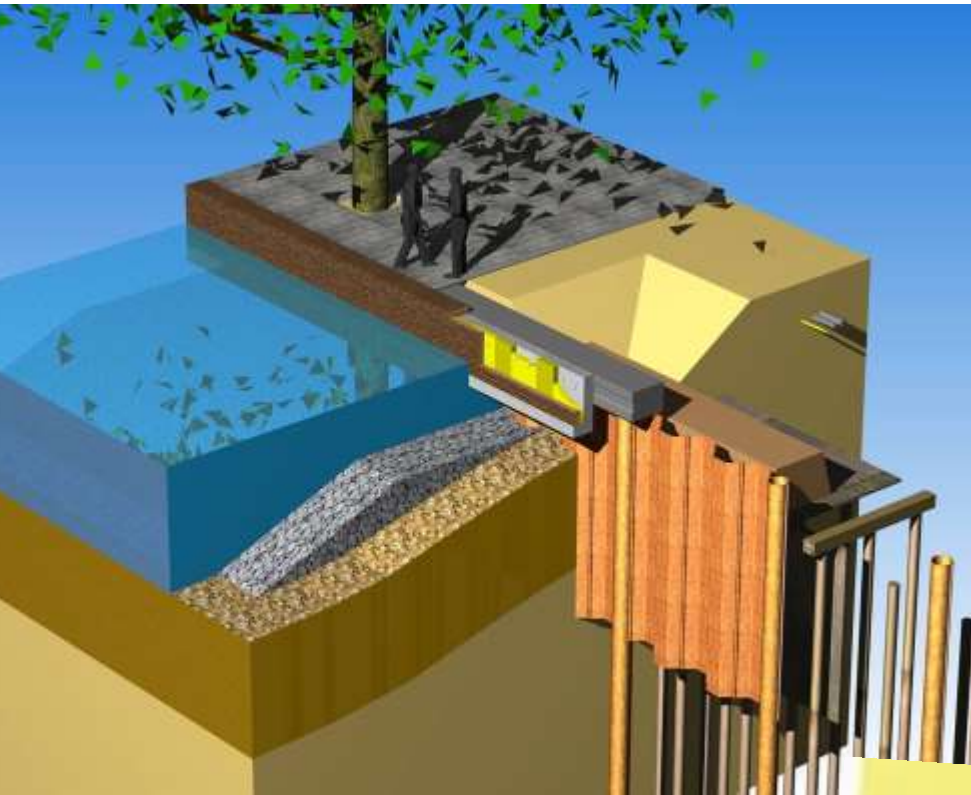
24-11-17

*Joris Goos*

*City of Rotterdam*

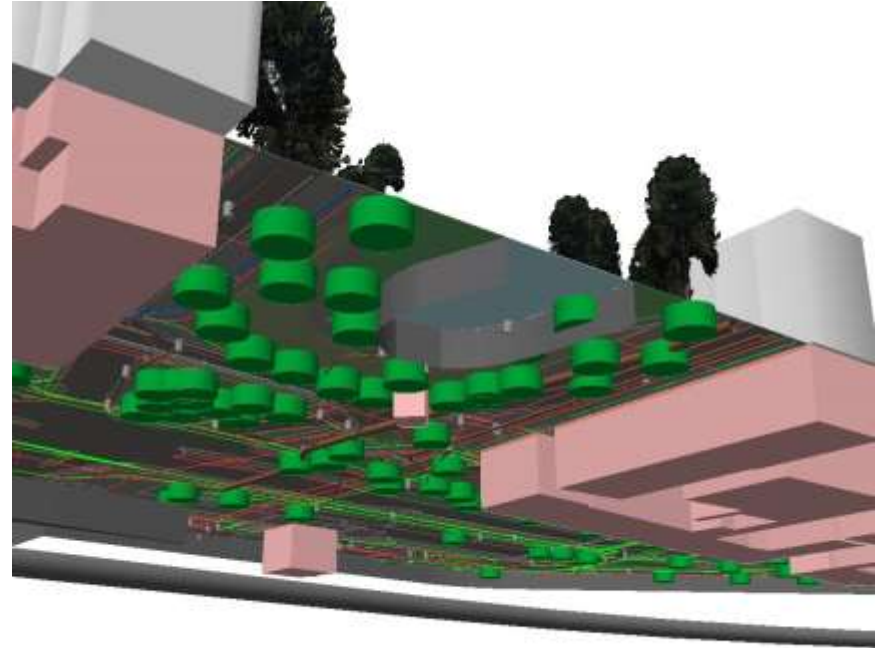
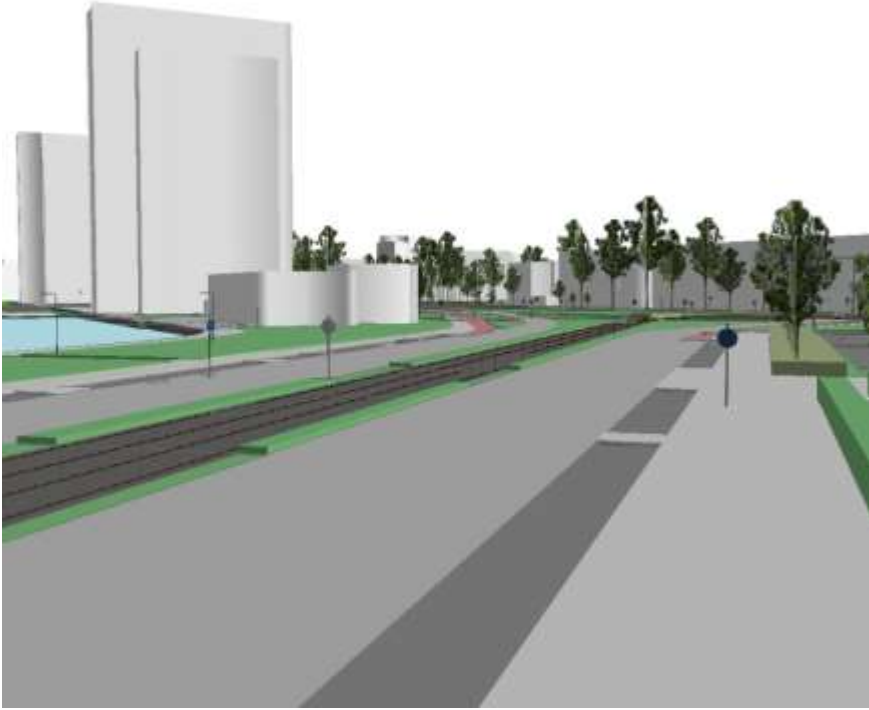


# Asset Management and Civil Engineering

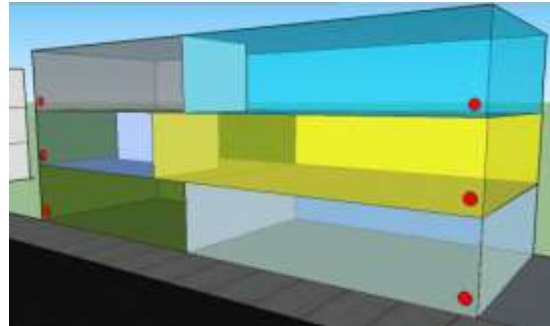
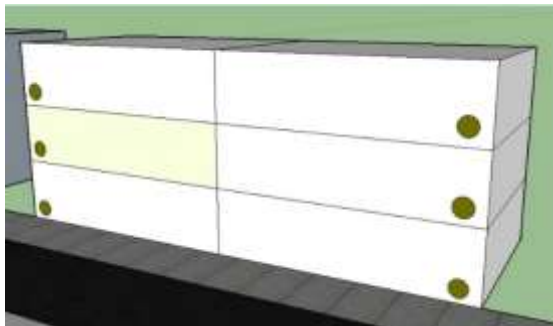
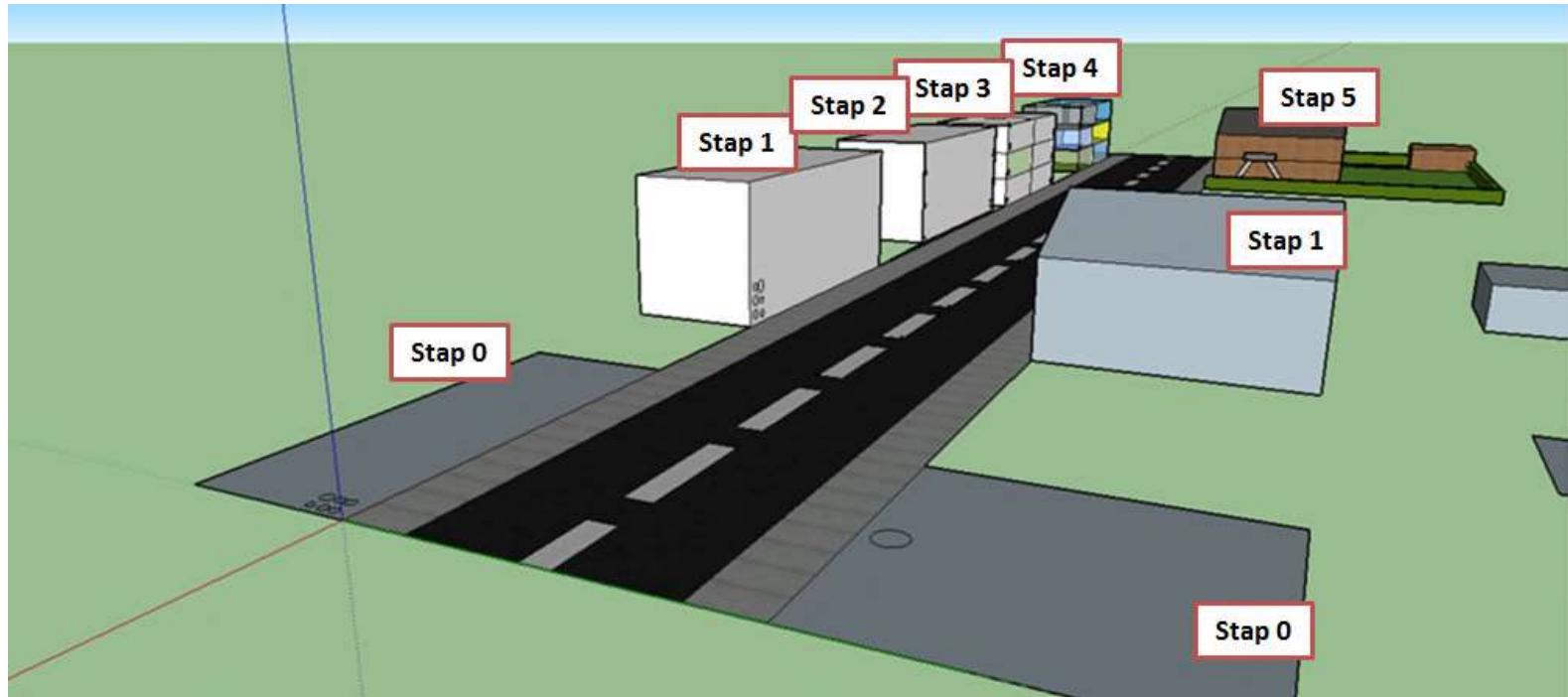


Smart  
Together  
Digital

# Where are we? : Rotterdam 3D City Model



# Where are we? : Building register from 2D to 3D



# What kind of data is needed for a digital building permit application process?

Digital

Building

Permit

Application

Process

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Digital

Building

Permit

**Case-oriented digitized process**

Application

Process

# What kind of data is needed for a digital building permit application process?

Digital

**Digital / automated processing**

Building

Permit

Application

Process

# Digital Automated Processing

## **1 Check on location and identity of a build(ing)**

Needs: georeferencing, shape, size, indoor architecture, functions, number of people (via open GIS- and BIM-standards (and possibly document-standards))

Challenges: data, conversion



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Needs: visualisations, used materials (BIM relation to circular economy), and possibly story-telling

Challenges: architects/contractors wish to control visualisation

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Challenges: architects/contractors wish to control visualisation

## **3 Check on technical issues (construction etc.)**

Needs: details on construction, materials, infrastructures, systems-in-place, etc. (via open standards)

Challenges: check is on safety, health, durability and needs agreements on modelling/algorithms

# Environment and Planning Act

26 laws go into 1 (per 1-1-2021)

100+ governmental decrees go into 4

more legal space for cities

a generic/national information platform



Transparent, predictable,  
easy-to-use

Joint approach

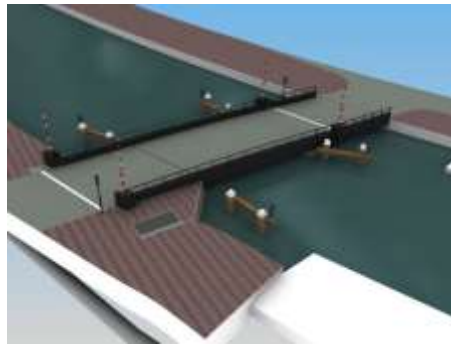
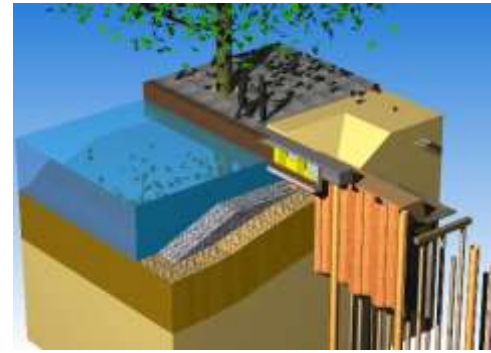
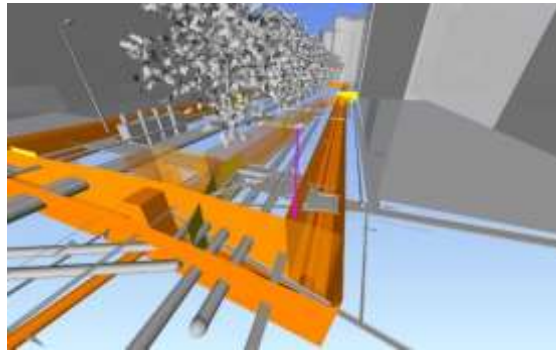
Faster and better  
decision making



# PILOT ROTTERDAM 3D EN OMGEVINGSWET

03:08





Thank you!

# Links

Rotterdam 3D en de Omgevingswet (RotterdamIn3dII)

<https://vimeo.com/229972159>