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Dutch Kadaster and crowdsourcing

Magdalena Grus
Product and Process
Innovation
Kadaster

Crowdsourcing in National Mapping - Workshop January 16th and 17th 2020 –

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Content:



Introduction



Crowdsourcing initiatives



Challenges

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Kadaster: the Netherlands' Cadastre, Land Registry and Mapping Agency

What do we do?

- ➔ **Registration**
real estate, topography, ships and aircraft
- ➔ **National facilities**
provides information from registrations of other parties; access to the data. Examples- facilities for addresses and buildings, cables and pipelines, and energy labels.
- ➔ **Customised work and advice**
- ➔ **International activities**
applies knowledge of land registrations and geographic information in countries that have need for it; collaborates with international universities and organisations to share knowledge.



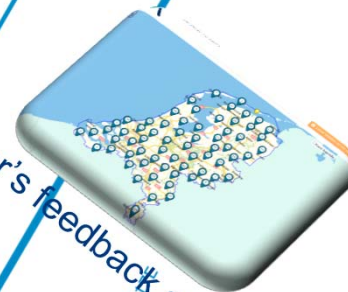
Crowdsourcing & Kadaster



Border Landmarks



Crowdsourcing at school



User's feedback system



Forests paths



Toponyms from historical associations



Land Registration in Colombia

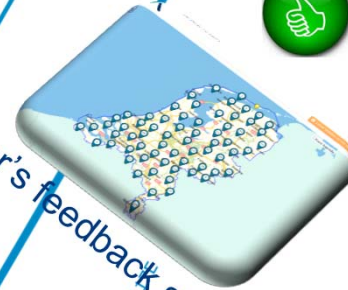
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Land Registration in Colombia

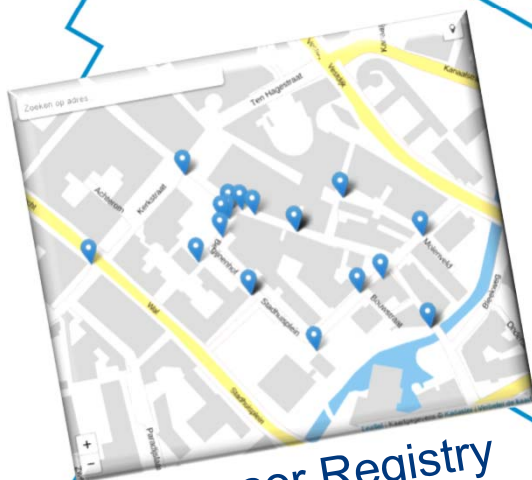


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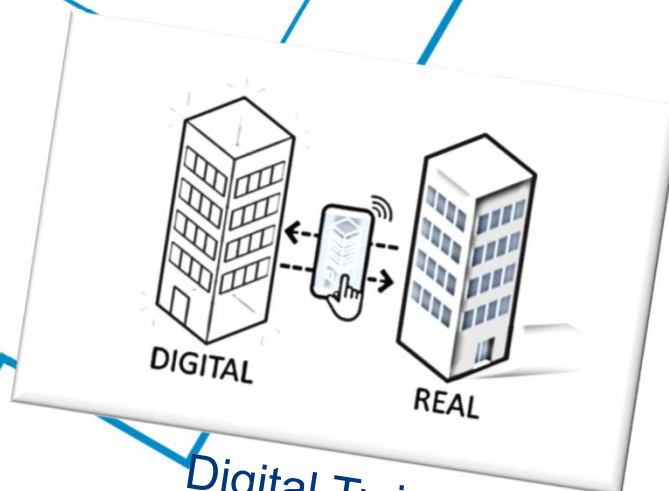
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Innovations

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Sensor Registry



Digital Twin

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Sensor Registry

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Sensorinformatie

Sensor



Latitude: 51.436777
Longitude: 5.480233
Sensor actief? Ja
Sensorcategorie: Microfoon
Omschrijving: Deze sensor meet geluid in dBA.
Ecosysteem: Stratusmeind
Fabrikant: Munisence
Sensortype: Geluidmeter
Meetwaarde(n): dBA
Latitude: 51.436777
Longitude: 5.480233
Sensor actief? Ja
Sensorcategorie: Microfoon
Omschrijving: Deze sensor meet geluid in dBA.
Ecosysteem: Stratusmeind
Fabrikant: Munisence
Sensortype: Geluidmeter
Meetwaarde(n): dBA
Registratiedatum: 5 mei 2016, 14:35

Sensoreigenaar

DITSS
info@ditss.nl
<https://www.ditss.nl/>

Beheerder

Martijn Speldimbink
info@ditss.nl

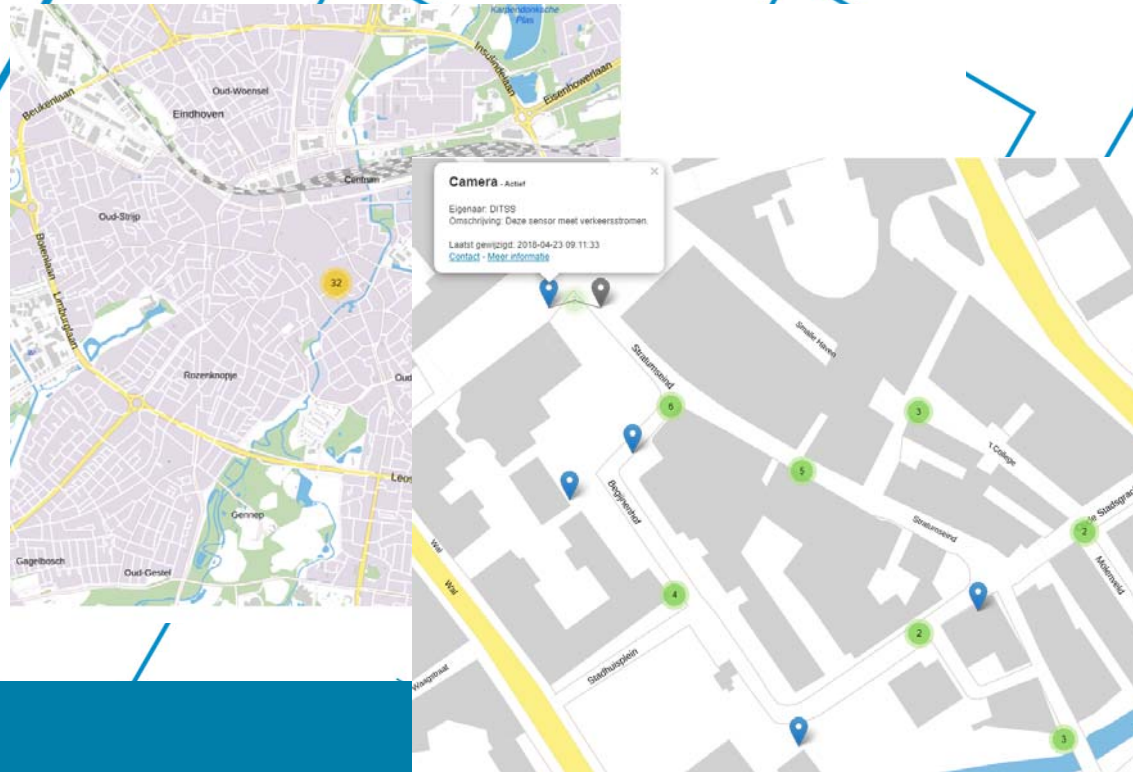
Datacontactpersoon

Tinus Kanters
tinus.kanters@ditss.nl
<https://www.ditss.nl/>

Dataplaats

API-link: <https://data.eindhoven.nl/api/recondu?dataset=livinglab-stratusmeind-sound-data&facet=sound&facet-value>
Data open: Ja
Open Data Portal-link: <https://data.eindhoven.nl/explore/dataset/livinglab-stratusmeind-sound-data/>

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Expeditie Sensorwandeling

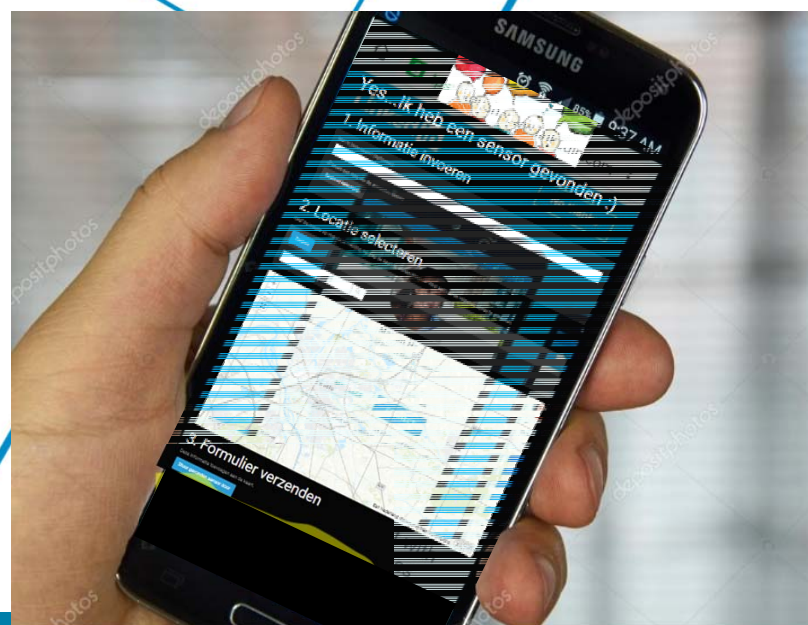


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What is a sensor?

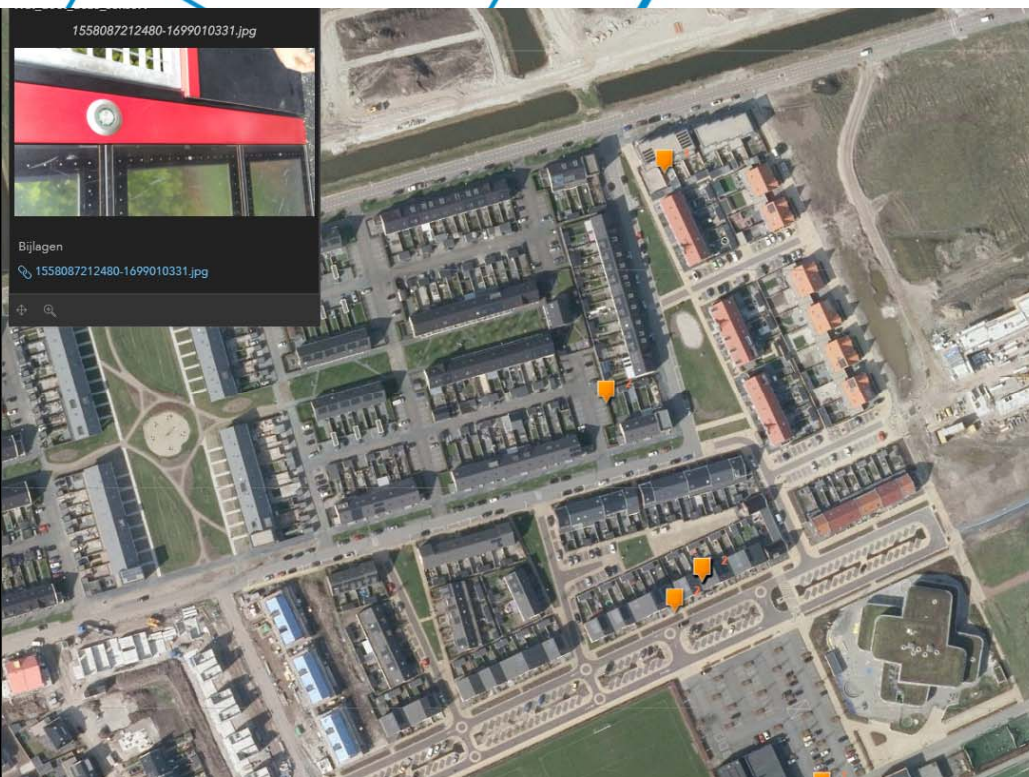
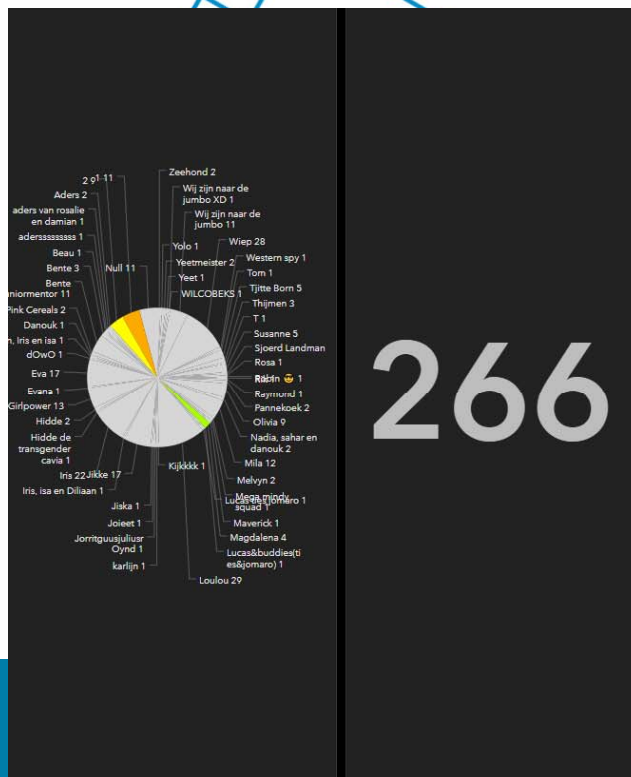


Find a sensor

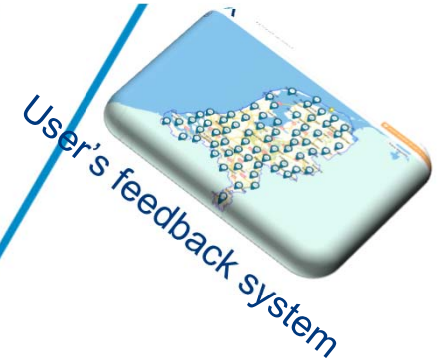


Results

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Kadaster Feedback System



In June 2016 the Kadaster launched the 'Improve the Map'-application for large scale topography (BGT)

- ➔ The system enables everyone to give feedback, based on crowdsourcing philosophy
- ➔ Feedback is distributed to 430 government bodies
- ➔ The system is extended with small scale topography (BRT) and buildings and addresses (BAG).

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Kadaster Feedback System

BRT

Key Register Topography



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BGT

Key Register for Large Scale Topography



Municipalities, provinces,
water boards, ministries

BAG

Key Registers for Addresses and Buildings

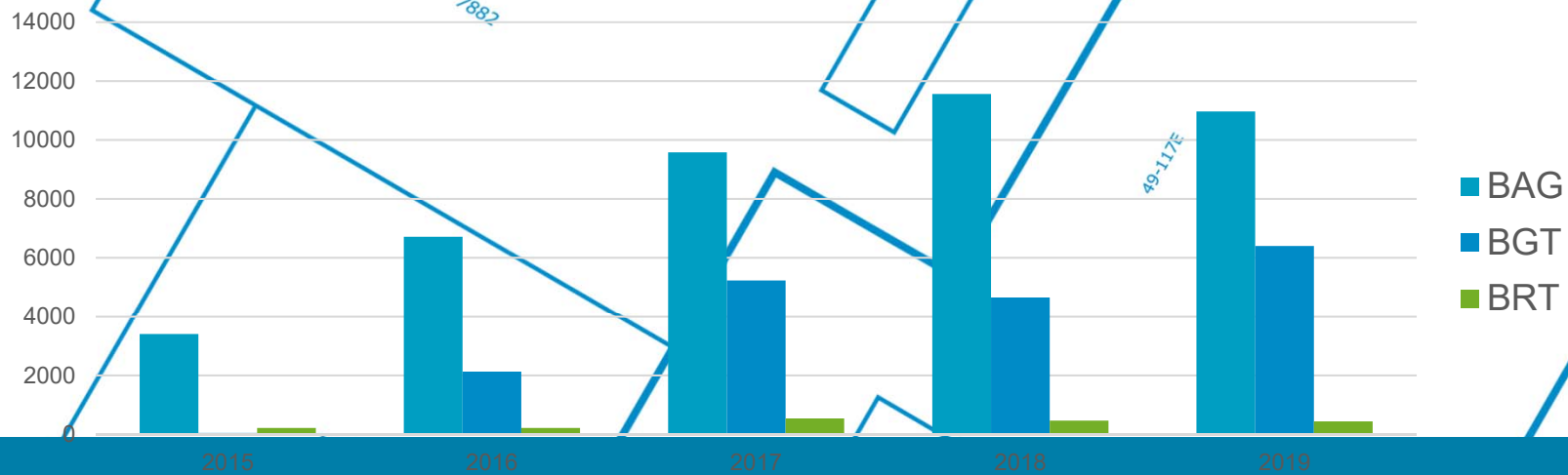


Municipalities

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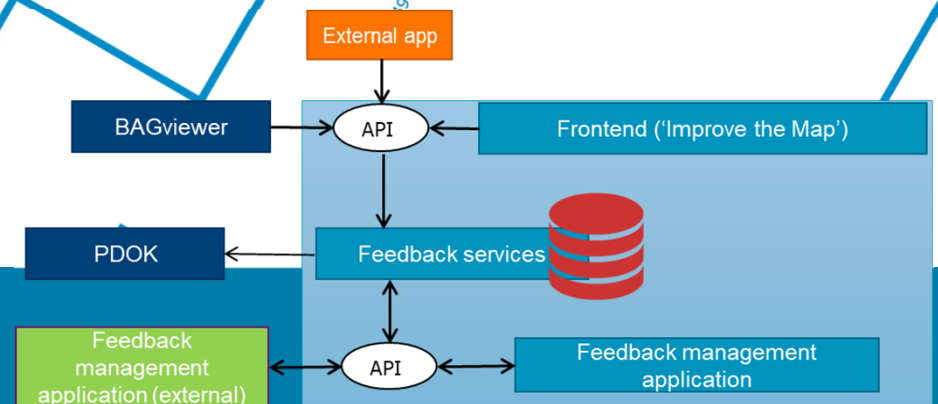
Feedback results

Amount of feedback per year



Feedback API (Application Programming Interface)

- In September 2019 the feedback API is introduced.
- Via the API users can connect their own application to give feedback.
- The first connected application: JOSM for editing OpenStreetMap.
- In 2020 the feedback API for data providers will be launched.



Overall results and challenges

- The crowdsourcing feedback system is a success
- The reports are spatially and temporally diverse
- Challenge lies in motivating all 430 government organizations to assess the feedback timely
- Another challenge lies in connecting reusing companies to share their feedback
- Only 5% of all the feedback is rejected



Kwaliteitsdashboard BGT

Voor bronhouders, via mijn Kadaster

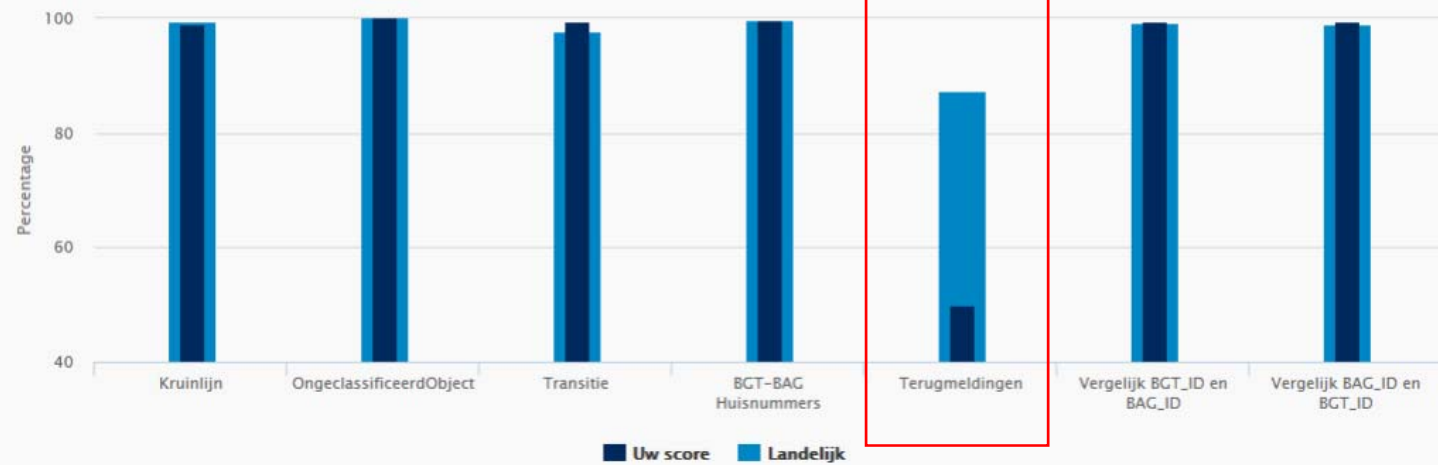
Bronhouder

Gemeente Hardinxveld-Giessendam

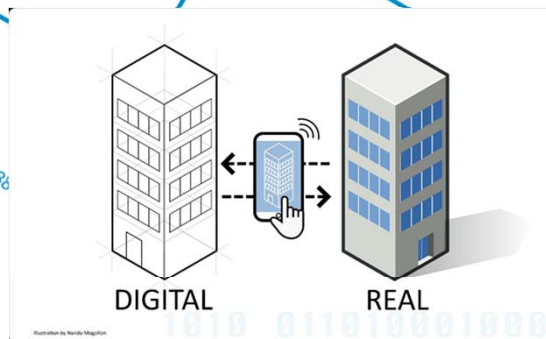
Peildatum

01-11-2018

Thema's



Digital Twin



18 Digitale, dynamische, realtime en gebruiksvriendelijke visualisatie van de werkelijkheid incl. informatie

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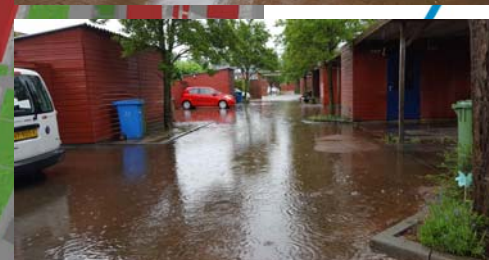
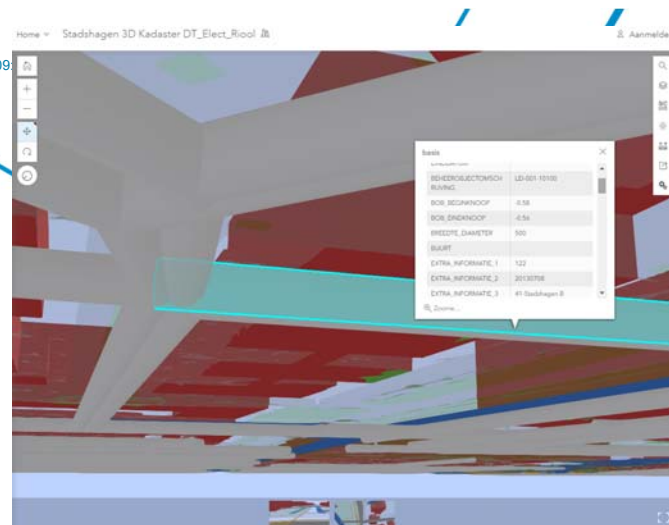
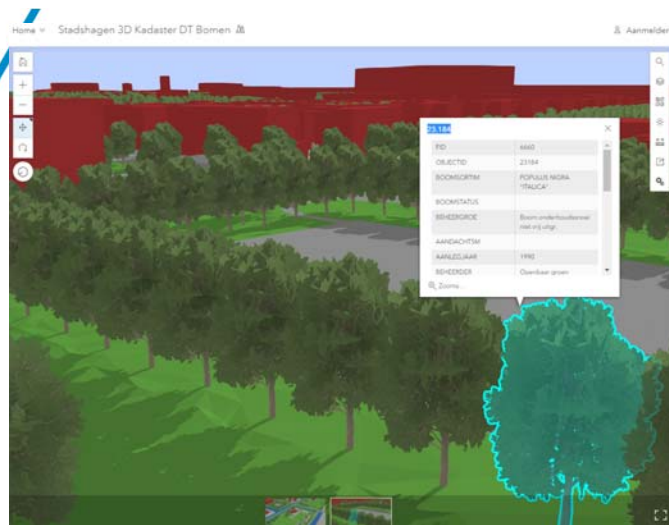


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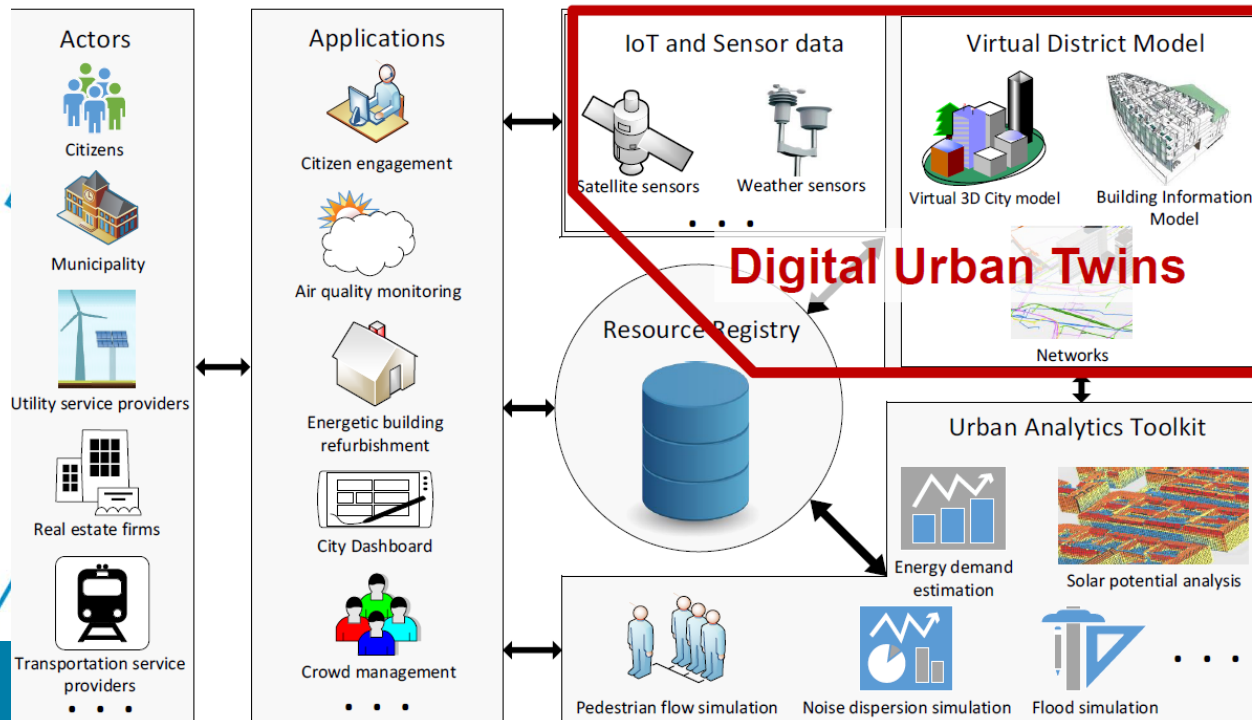


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Smart District Data Infrastructure (SDDI)



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Questions?