

# FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,  
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life  
and Environmental Resilience"



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# Improving quality of the Key registries with 3D building information models and Linked Data

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## High quality key registries, but room for more

- Quality of the key registries is high, but there is room for more:
  - Quality dashboards have proven their effect
  - 3D BIM is an interesting step to consider, not only to improve the quality but also to improve processes
  - Linked Data can be the final step to fully integrate data, improve quality even more and to have a real shared information position

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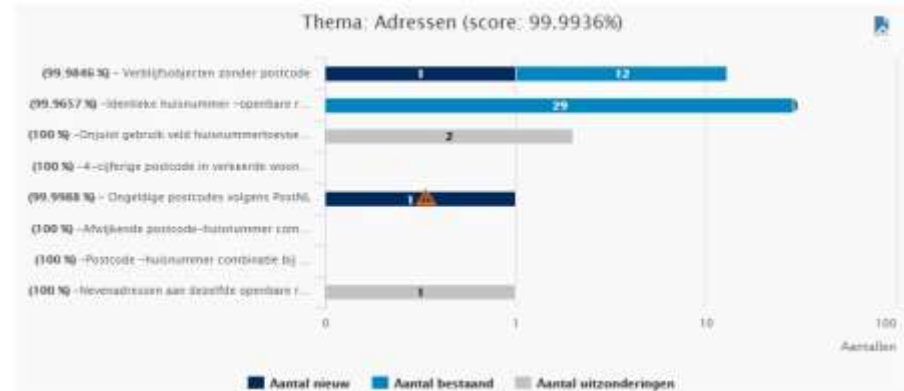
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## Quality dashboards are a big succes

- Signification improvements in data quality, of interest for source holders and data users
- More and more interest from other key registries
- Creating quality dashboards for combinations of key registries might find even more incorrect data and improve quality further



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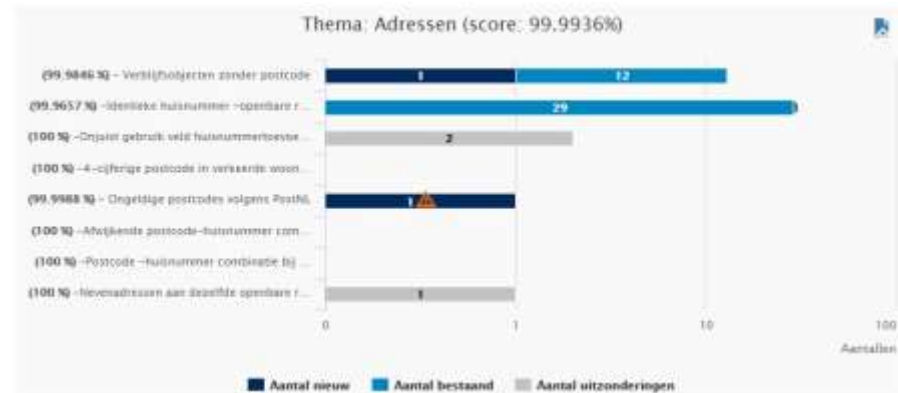


## Source holder dashboard

- Detailed overview of all errors in the key registries
- Comparison with overall score of all municipalities
- Easy to use and easy to find the specific errors



Klik op een balk in de grafiek om de onderverdeling te zien.



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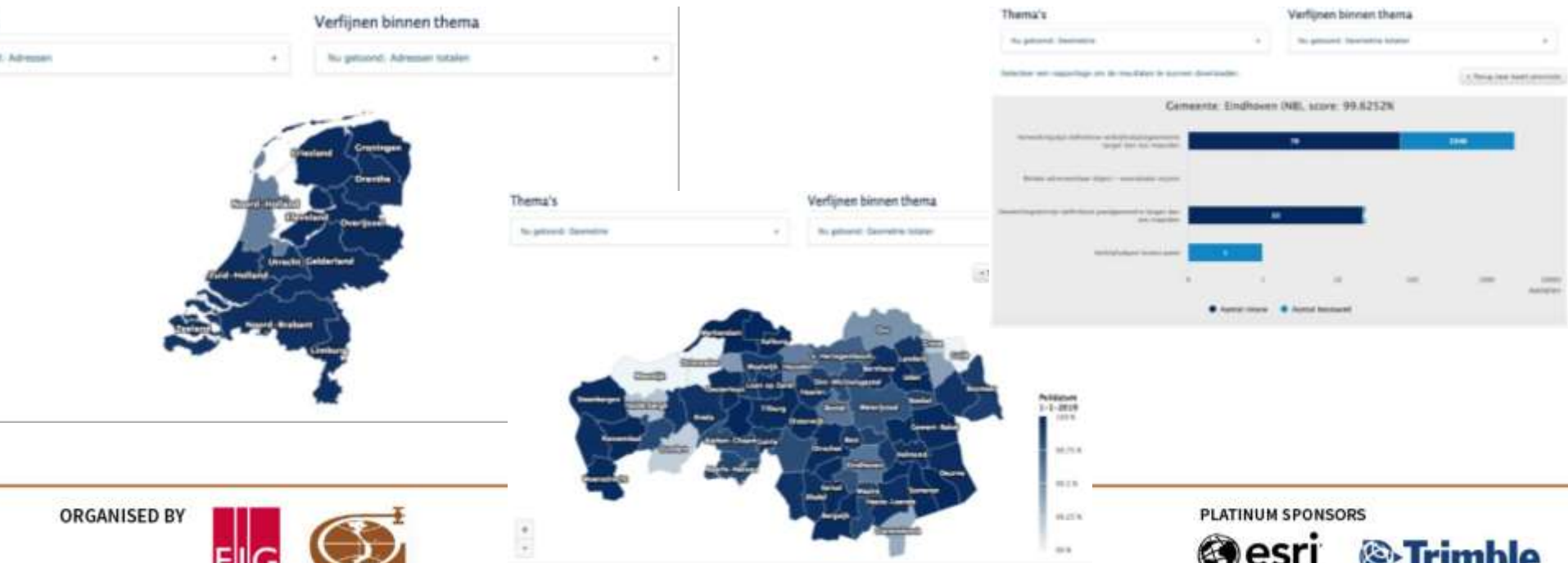
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## Data user dashboard

- Overview of the quality for each municipality and each province
- Possibility to dive deeper into the data and find specific metrics



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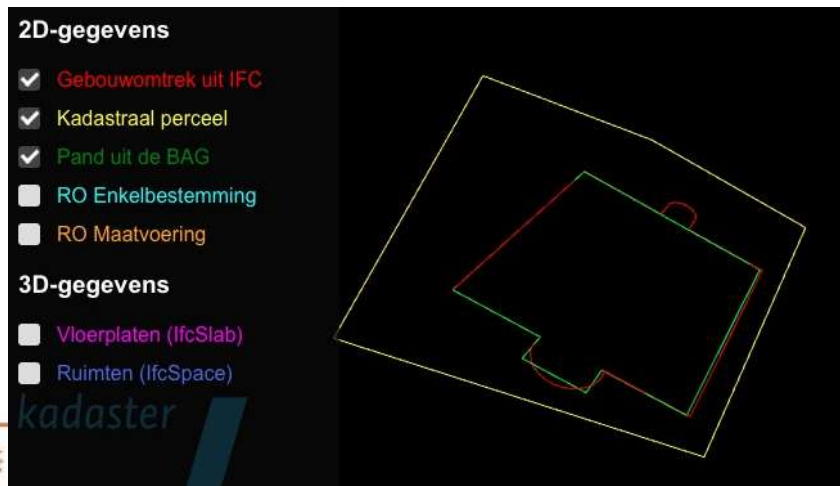
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## 3D BIM data for data improvements and efficient processes

- Usage of 3D BIM data leads to:
  - Less manual work
  - Fewer data entry and therefore better data quality
  - Easier visual check and less chances of incorrect permits



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## Linked Data leads to shared information position

- Not necessarily process improvement
- Does lead to easier comparison of data and therefore a possibility to find errors
- Better information position for all parties involved

The screenshot shows a web application interface. On the left, there is a sidebar with a 'menu' icon and a 'Uitlog' button. Below that, there are sections for '2D-gegevens' and '3D-gegevens'. The '2D-gegevens' section includes a checked item 'Geometrie van IFC' and several unchecked items: 'Kadastraal perceel', 'Perceel uit de BAG', 'Rij Ervenisnummering', and 'Rij Mastvering'. The '3D-gegevens' section includes a checked item 'Vloeren (BIMBA)' and an unchecked item 'Ramen (BIMBA)'. Below the sidebar is a 3D model of a building structure. On the right, there is a panel titled 'Informatie over object' with several sections: 'IfcProject' (Name: Kantoor President Kennedylaan 1, Schema: IFC2X3, Eenheid lengte: METRE, Eenheid oppervlakte: SQUARE\_METRE, Eenheid inhoud: CUBIC\_METRE, Maximale hoogte: 16.5, Aantal personen per toilettruimte: 9), 'IfcSite' (Lengtegraad: 4.3131697, Breedtegraad: 52.3423195), 'IfcBuilding' (Gereleteerd pand BAG: <http://bag.basisingenieurs.overheid.nl/bag/id/pand/0363109012>, Gereleteerd perceel BRK: <http://brk.basisingenieurs.overheid.nl/id/perceel/230143324>), 'BBL' (Categorie: <http://data.labe.gov.nl/data/bouwen/Bestaandebouw>), and 'Functie' (<http://data.labe.gov.nl/data/bouwen/Kantoorfunctie>).

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