

# Visualisation of spatial register data quality in public dashboards

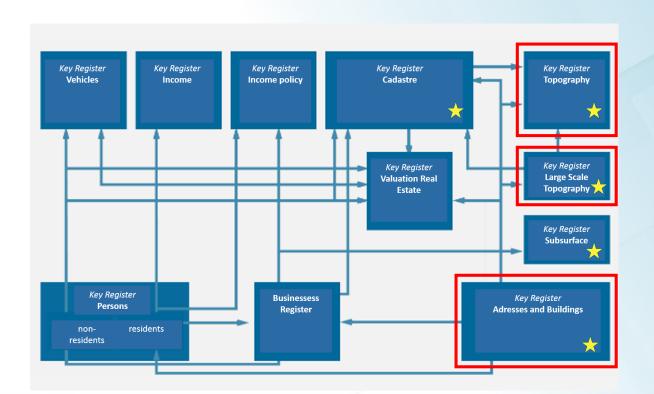
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SDQ 2018 Malta

## Visualisation of spatial register data quality in public dashboards

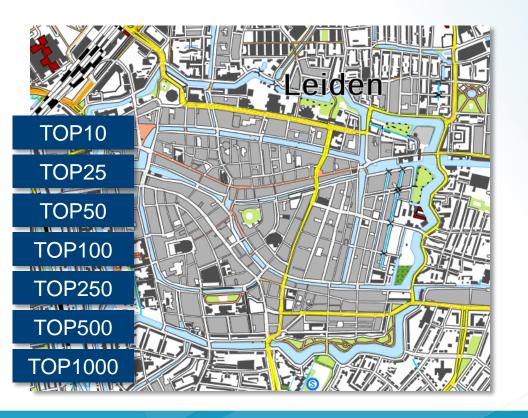
- Dutch system of Key Registers
- Role of Kadaster
- Quality dashboards
- Crowdsourcing

#### **Dutch system of Key Registers**



★ Key register with a spatial component

#### **BRT Topography**



Key Register Topography

Produced by Kadaster

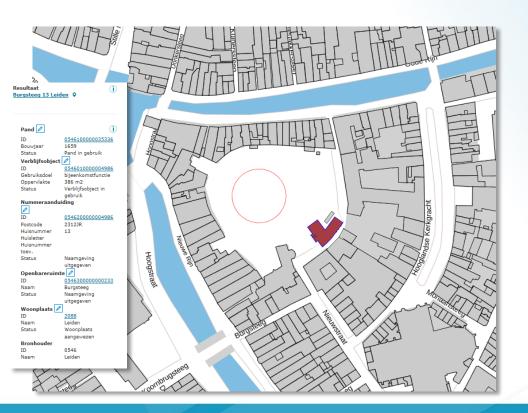
Data and raster maps, 3D and Linked data

Fully updated yearly in 5 releases with uniform quality

Automatically generalised

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### **BAG - Addresses and Buildings**



Key Register Addresses and Buildings

Unique objects with address, area, contour and purpose

Produced by municipalities (380)

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## **BGT - Large Scale Topography**



Key Register Large Scale Topography

Produced by local, regional and national authorities (418)

Initial completion mid 2017
Phase of quality
improvement until 2020

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## Roles Kadaster for BRT, BGT and BAG

Key Register	Producer	Register keeper	Server
BRT (topography)	Kadaster	Kadaster	Kadaster (pdok.nl)
BGT (large scale topography)	Local, regional and national authorities	Kadaster	Kadaster (pdok.nl)
BAG (addresses and buildings)	Municipalities	Kadaster	Kadaster (pdok.nl)

## **Key register quality**

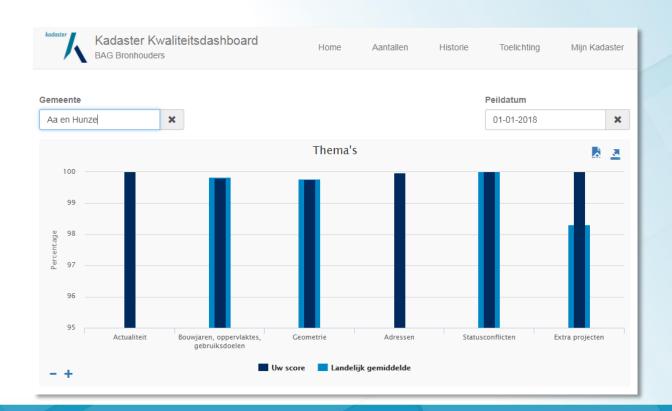
- Insight in key register quality
- Handles for improvement

Quality dashboard for quality management

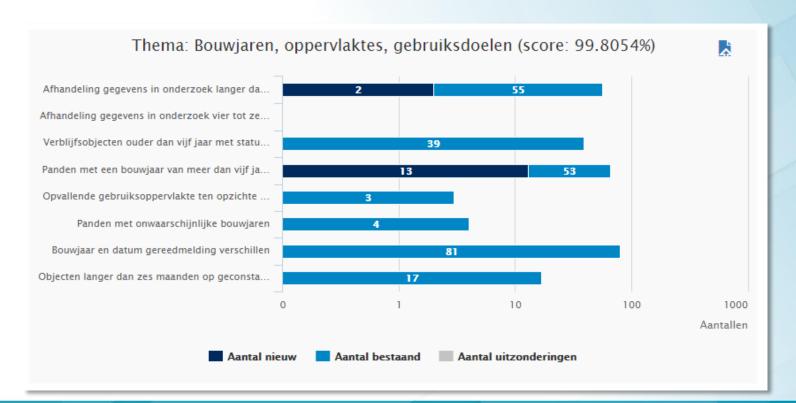
#### **Quality dashboard**

- Quality managers and producers consider the same information
- Positive approach: working towards 100%
- Comparison to national average
- Results: errors and signals
- Themes results details
- Exports
- Numbers
- History

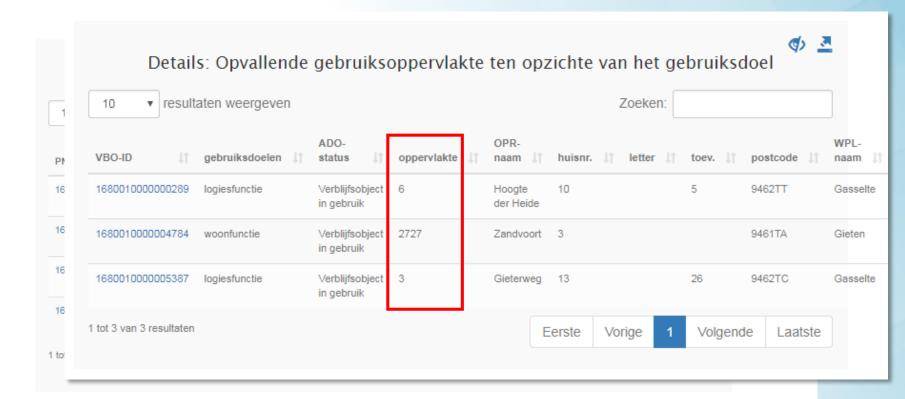
## **Quality dashboard - Themes**



#### **Quality dashboard – Theme results**

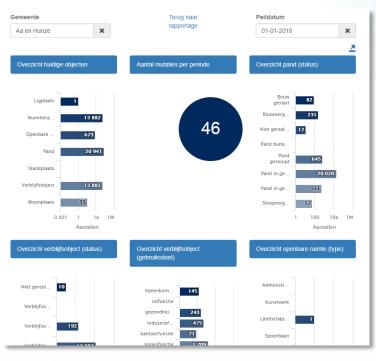


#### **Quality dashboard - details**

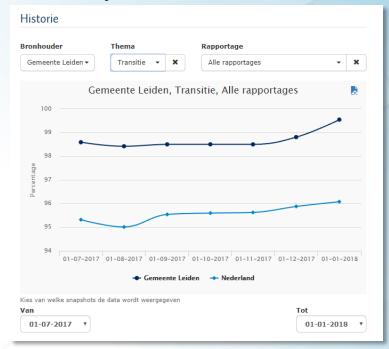


## **Quality dashboard**

#### **Numbers**



#### History



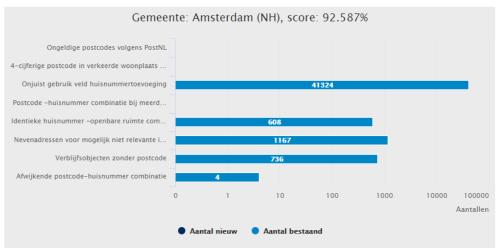
## Results of quality management BAG

- 44% error reduction in 20 months
- Producers are active in solving results and enthusiastic about the positive approach
- Dashboard is a practical and well used tool.



#### Public dashboard BAG





https://www.kadaster.nl/bag-kwaliteitsdashboard-voor-afnemers/over-dit-dashboard

#### **Public dashboard BRT**

#### BRT Kwaliteitsdashboard

#### Actualiteit



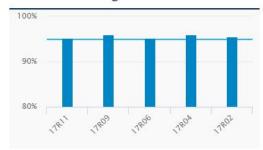
#### **Kwaliteit**



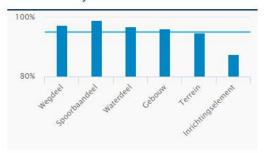
#### Links

- » Toelichting BRT Kwaliteitsdashboard
- » Over Basisregistratie Topografie
- » Verbeter de kaart
- » Downloadservice BRT via PDOK
- » Webwinkel topografische producten

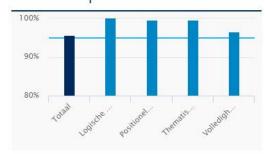
#### Kwaliteit leveringen



#### Kwaliteit objectklassen



#### Kwaliteitsaspecten



https://www.kadaster.nl/brt-dashboard

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### **Future developments**

- Expanding BGT and BRT dashboards
- Linking between registers and dashboards: BAG buildings in BGT
- Feedback numbers in dashboards

All public dashboards?

### Crowdsourcing

It is compulsory for government users of Key Registers to provide feedback on errors and changes in the data or maps.

But now anyone can give feedback at <a href="https://www.verbeterdekaart.nl">www.verbeterdekaart.nl</a> (BRT and BGT) or <a href="https://bagviewer.kadaster.nl">bagviewer.kadaster.nl</a> (BAG)

#### Improve the Map (verbeterdekaart.nl)



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## Key register data quality

- Initial filling first, attention for data quality second
- Quality dashboards are a great tool for quality management
- Map feedback



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#### Quiz

What is the national error percentage based on measured errors in the BAG quality dashboard?

- A. less than 1% errors
- B. 1-10% errors

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C. more than 10% errors

0,29%

of 28,5 milion objects in BAG (measured errors in the quality dashboard)

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