

kadaster

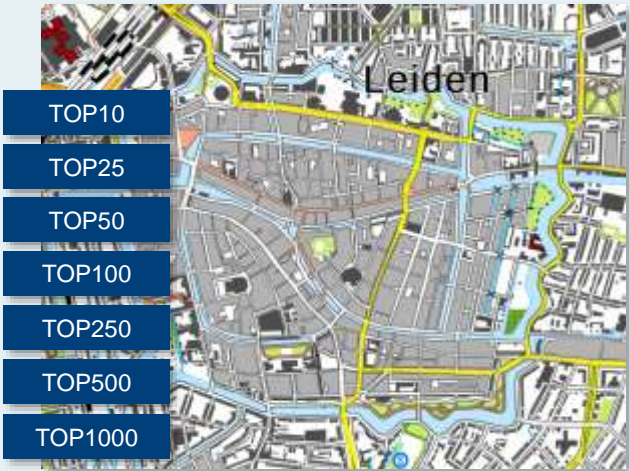

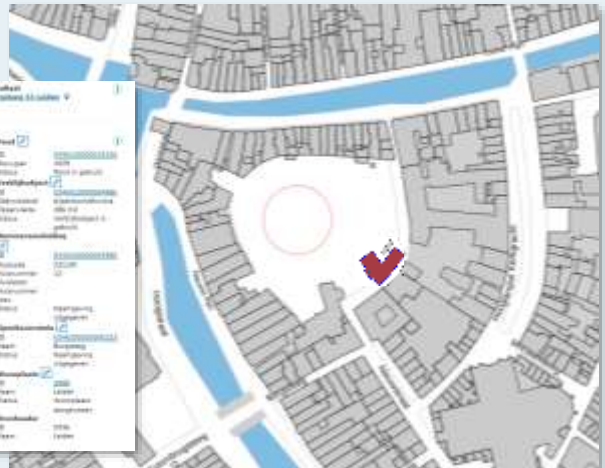


Anouk Huisman - van Zijp
Jaap-Willem Sjoukema
FIG 2021

Boosting data quality by a participatory approach

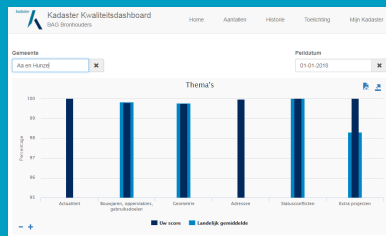
The success of quality dashboards and crowdsourced feedback

Dutch system of Key Registers

Key Register	Topography (BRT)	Large scale topography (BGT)	Addresses and buildings (BAG)
Producer	Kadaster	Local, regional and national authorities	Municipalities
Register keeper	Kadaster	Kadaster	Kadaster
			

Quality Management

Producer dashboards



Crowd-sourcing



Public dashboards





Why dashboards?

Actively identify, help, stimulate, consult, provide best practices, register, measure, follow-up, address.

Information and communication as basis for quality and cooperation.



Dashboards as integral part of active quality management





Producer dashboards

Producer
dashboards



- Quality managers and producers consider the same information
- Positive approach: working towards 100%
- Comparison to national average
- Results: errors and signals



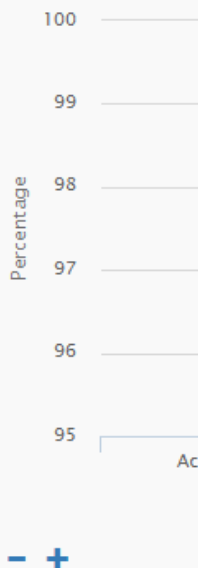
Producer dashboards



Thema: Bouwjaren, oppervlaktes, gebruiksdoelen (score: 99.8054%)

Gemeente

Aa en Hunzel



- Afhandeling gegev
- Afhandeling gegev
- Verblijfsobjecten c
- Panden met een bo
- Opvallende gebui
- Panden me
- Bouwjaar en datu
- Objecten langer dan

Details: Panden met onwaarschijnlijke bouwjaren

10 resultaten weergeven

Zoeken:

PND-ID	PND-status	bouwjaar	OPR-naam	huisnr.	letter	toev.	postcode	WPL-naam	Nieuw	Uitzond
1680100000027776	Pand in gebruik	9999						Grolloo	<input type="checkbox"/>	<input type="checkbox"/>
1680100000027782	Pand in gebruik	9999						Gasselte	<input type="checkbox"/>	<input type="checkbox"/>
1680100000027548	Pand in gebruik	9999						Gieten	<input type="checkbox"/>	<input type="checkbox"/>
1680100000027725	Pand in gebruik	9999						Gieten	<input type="checkbox"/>	<input type="checkbox"/>

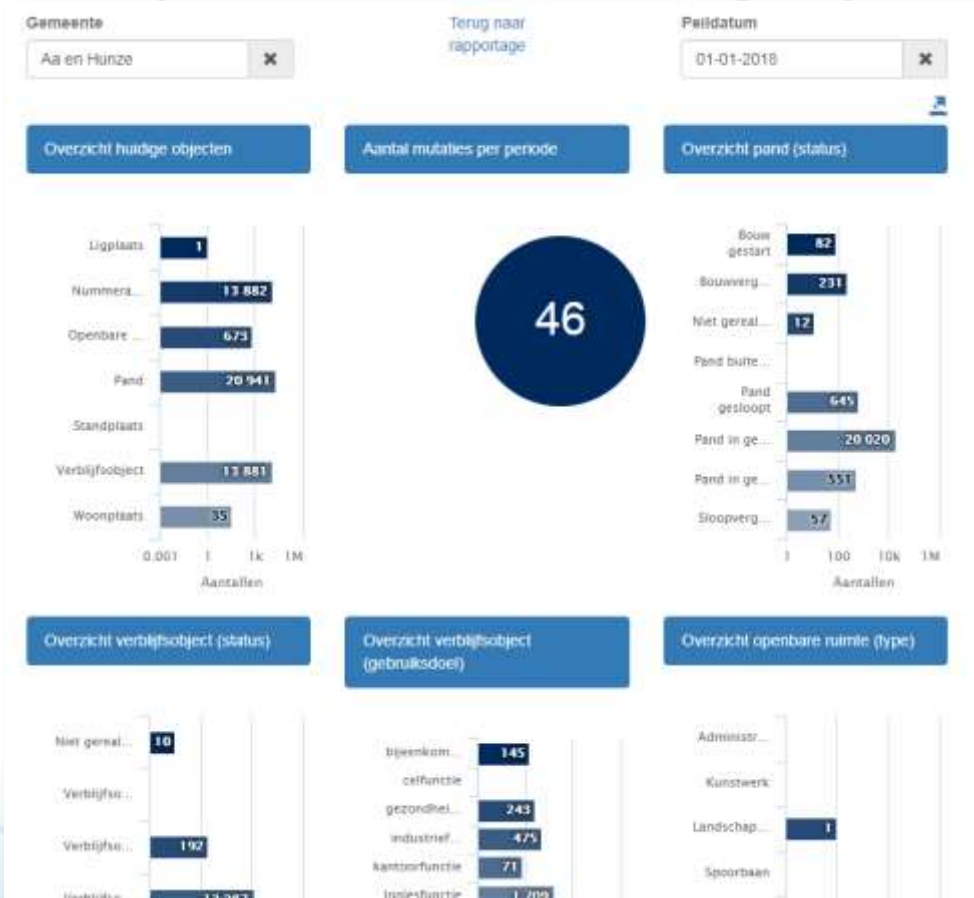
1 tot 4 van 4 resultaten



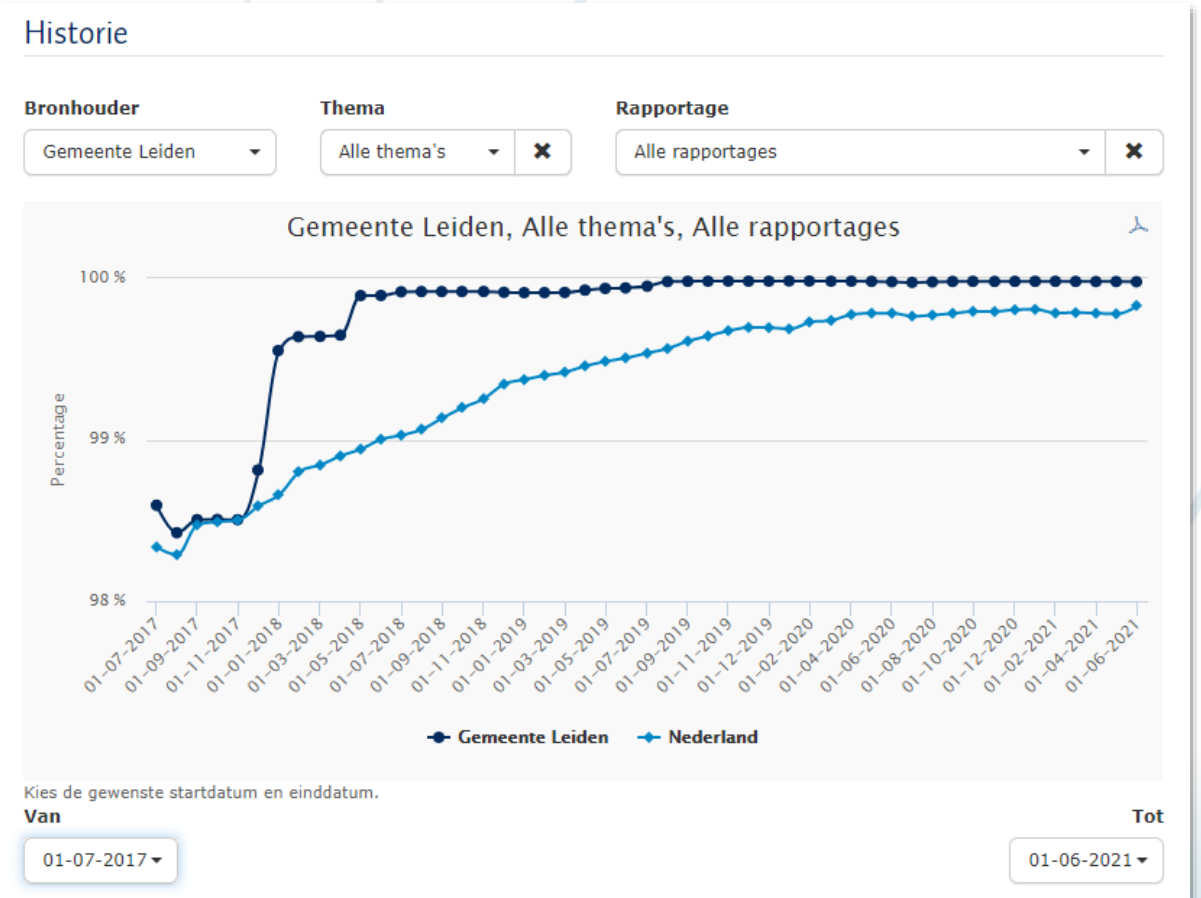
Producer dashboards



Numbers



History





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

- www.verbeterdekaart.nl (BRT and BGT) or
- bagviewer.kadaster.nl (BAG)

Crowdsourced feedback



Verbeter de Kaart

Veelgestelde vragen
Melding maken

🔍

BGT melding
✕

Melding
BGT00077941

Geregistreerd op
15-2-2021 11:18

Status
Goedgekeurd, Ingepland door bronhouder

Omschrijving
noordelijke gedeelte woning is nummer 14 B
zuidelijke gedeelte is nummer 14 ZIE BAG

Status gewijzigd op
9-3-2021 17:54

Bronhouder
Gemeente Voorst

Legenda

- ! New
- ? Under investigation
- ✓ Approved
- || Paused
- ➔ Forwarded
- ✕ Rejected
- ✓➔ Finished

contact \ API
privacy \ toegankelijkheid
kadaster.nl

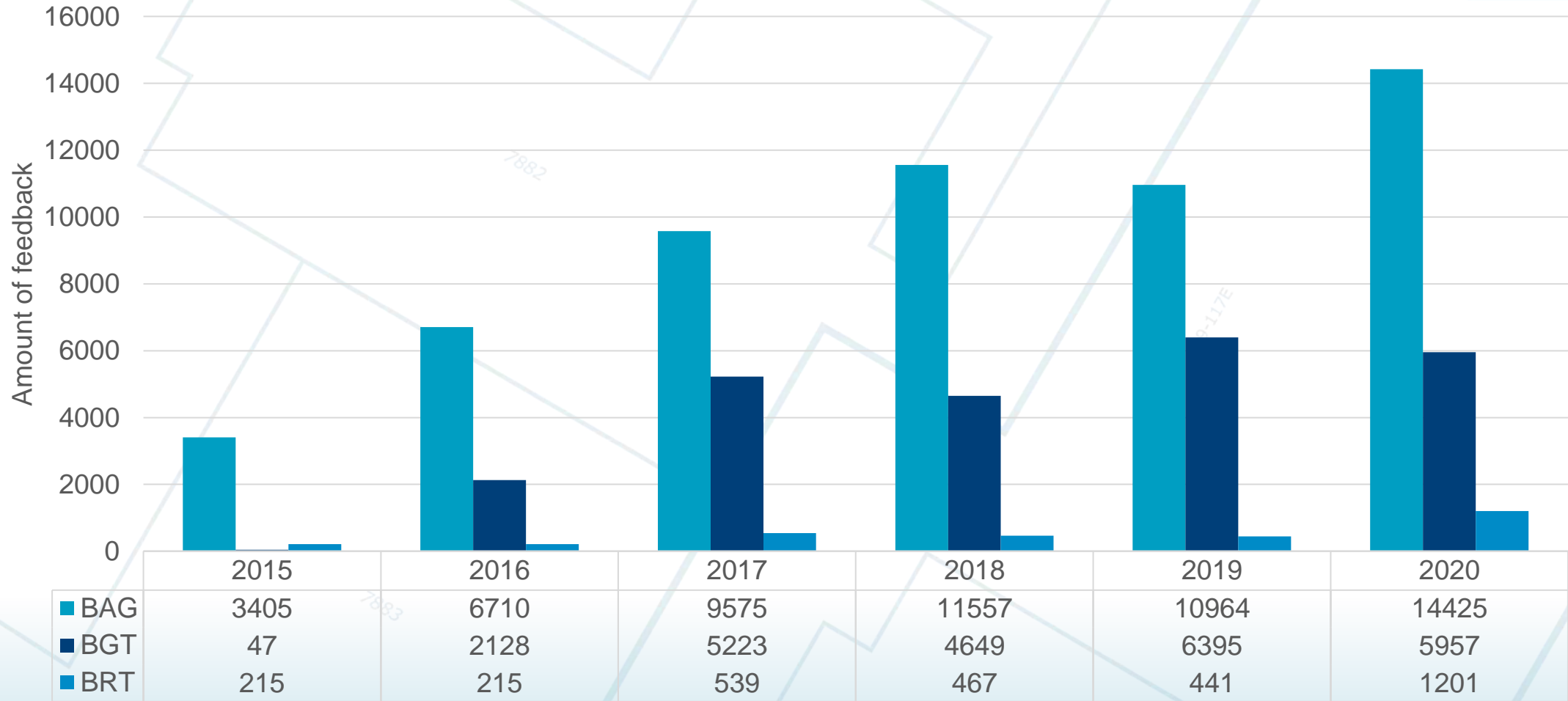




Feedback results



Amount of feedback per year

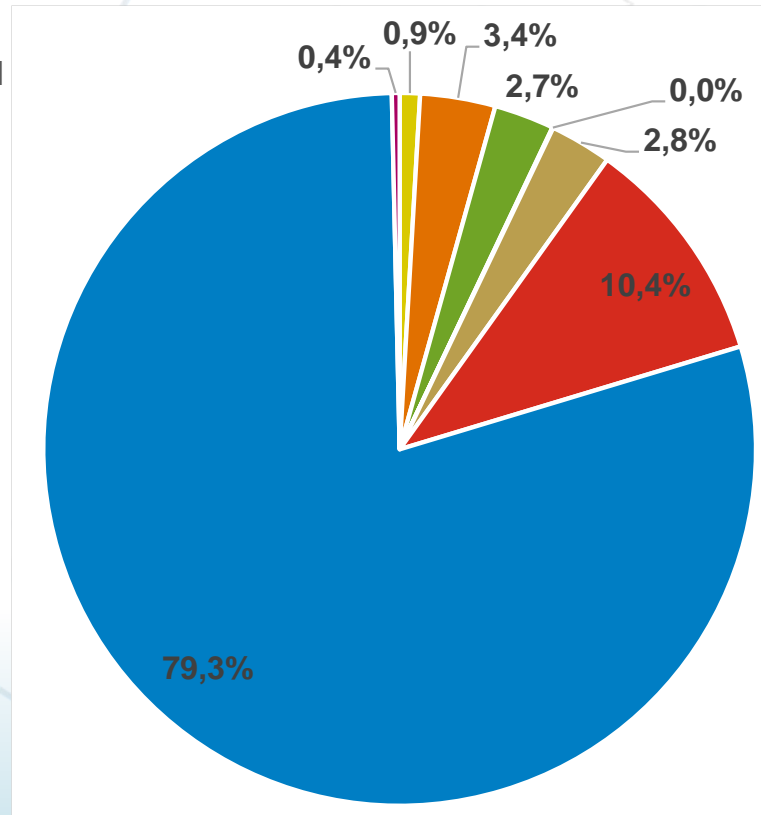




Crowdsourcing results



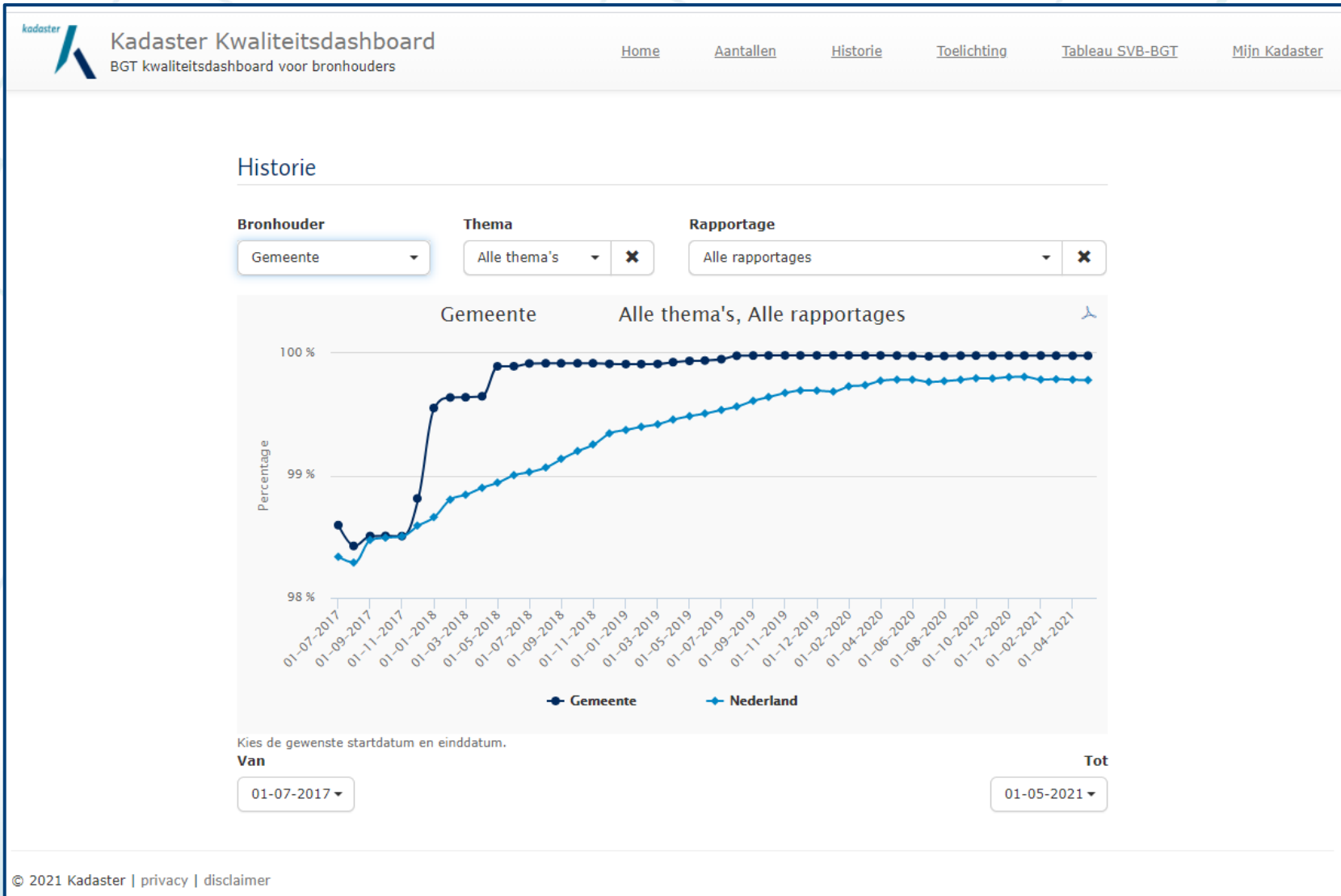
- New
- Under Investigation
- Approved
- Parked
- Forwarded
- Dissapproved
- Finished
- Spam



- Open and transparent feedback for and from everyone.
- Amount of feedback has more than doubled.
- Only 10% of all the feedback is rejected.
- Crowdsourcing results feed back into quality dashboards.

Total 2016-2020: 65830

Results of Quality Management





Key Register data quality management

- Quality dashboards are a great tool for quality management
- Crowdsourcing to access local knowledge
- Continuous process
- Focus now on linking Key Register data

**Producer
dashboards**



**Public
dashboards**



**Crowd-
sourcing**





Links

Paper:

- 📌 [https://fig.net/resources/proceedings/fig_proceedings/fig2021/papers/ts03.5/TS03.5_huisman - van zijp sjoukema 10884.pdf](https://fig.net/resources/proceedings/fig_proceedings/fig2021/papers/ts03.5/TS03.5_huisman_-_van_zijp_sjoukema_10884.pdf)

Public dashboards:

- 📌 BRT: <https://www.kadaster.nl/brt-dashboard>
- 📌 BAG: <https://www.kadaster.nl/zakelijk/registraties/basisregistraties/bag/bag-voor-afnemers/bag-kwaliteitsdashboard-voor-afnemers>

Crowdsourced feedback

- 📌 BRT and BGT: www.verbeterdekaart.nl
- 📌 BAG: bagviewer.kadaster.nl



Thank you

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FIG paper

https://fig.net/resources/proceedings/fig_proceedings/fig2021/papers/ts03.5/TS_03.5_huisman_-_van_zijp_sjoukema_10884.pdf