

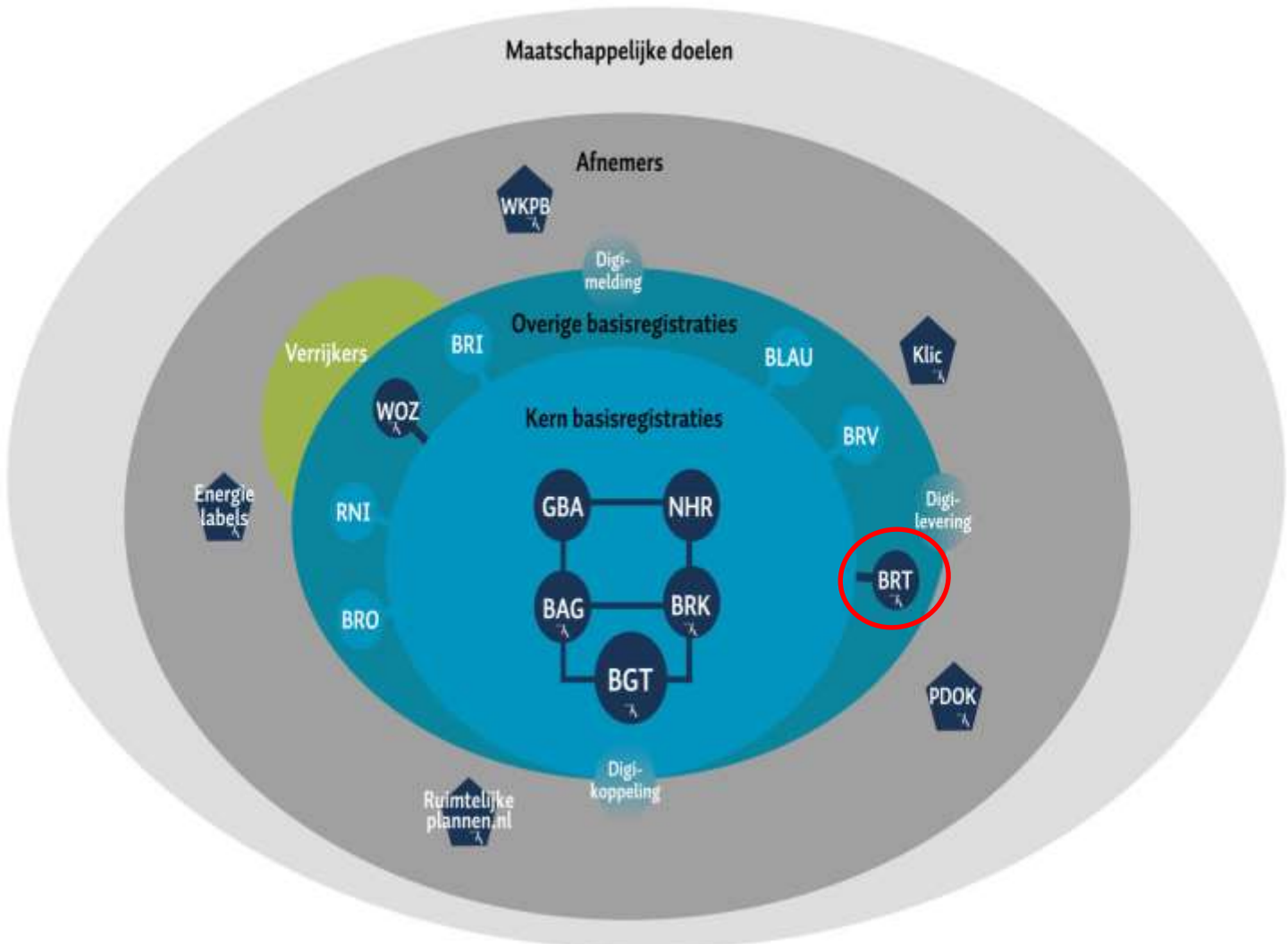
# Auditing the quality of the Key Register Topography in the Netherlands

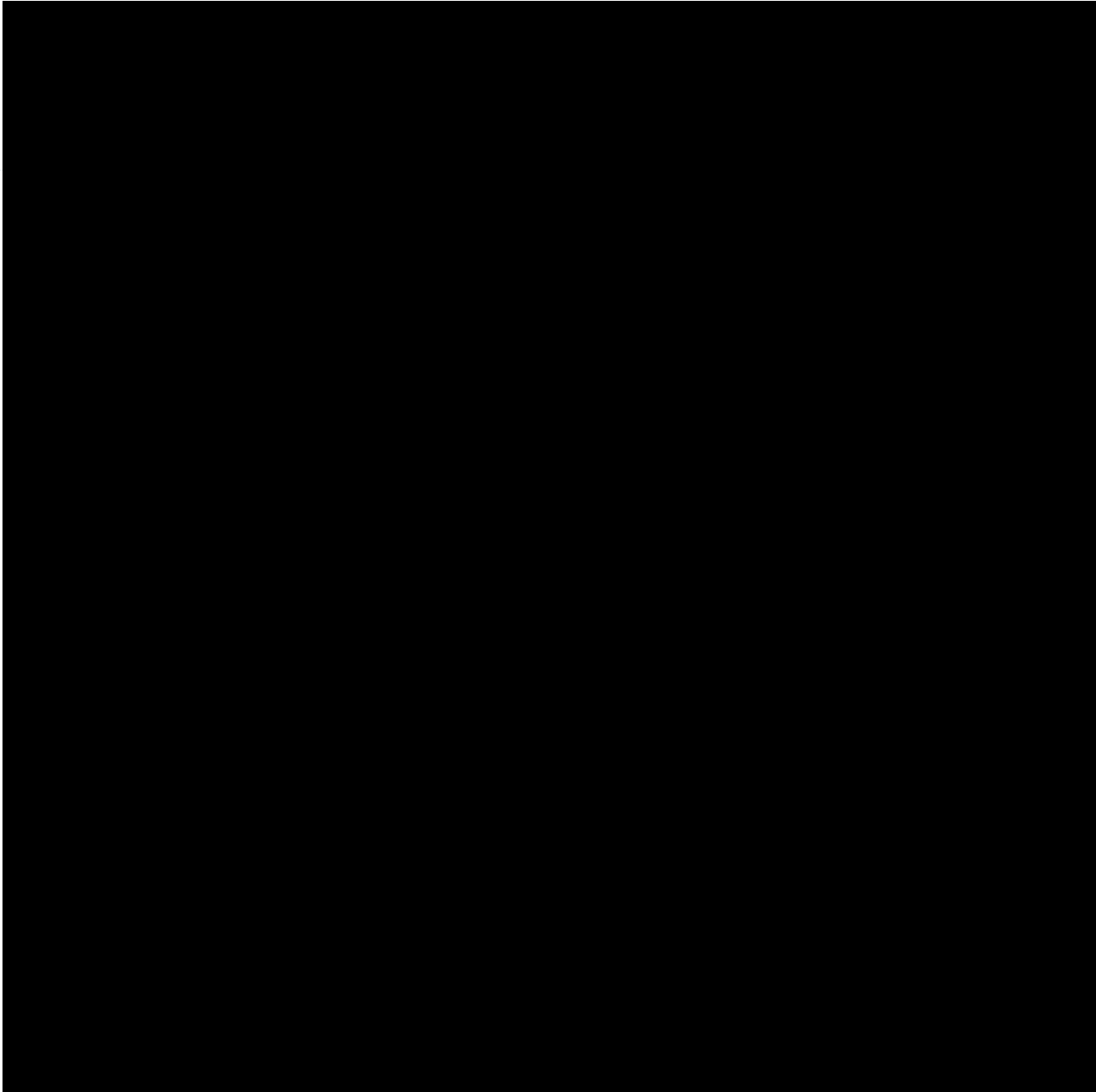
25-05-2016, Geospatial World Forum

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# Key Register Topography BRT





ALTERRA  
WAGENINGENUR

English version: <http://youtu.be/42ZLB1DWfqU>

kadaster



# BRT (Key Register Topography)

## BRT Product family



1:10.000



1:25.000



1:50.000



1:250,000



1:500.000



1:1.000.000

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# Key Register Topography

- Dutch law:
  - Obligation to use key register topography within local, regional and national government
    - Quality must be fit for purpose
  - Quality of key register has to be audited every 3 years by external expert
  - All others years quality has to audited by Kadaster

# Auditing: what and how?

- Five themes:
  - Actuality
  - Logical consistency
  - Thematic accuracy
  - Geometric accuracy
  - Completeness



# Auditing: what and how?

- All TOP10NL objects within 57 areas of 500m x 500m ●
- Extra 20 areas of 500m x 500m for classes with <25 objects ●

Areas are selected random within each province

Higher number of objects means higher chance of inclusion



# Auditing: what and how?

- A selection of attributes
  - All most important attributes (e.g. type of road)
  - Selection of less important attributes (e.g. number of lanes)
  - All attributes are checked every three external audits.



# Auditing: what and how?

- Quality is checked against the same source information used in the production process
  - Aerial images



- 360° street images



# Auditing: what and how?

- Results of sample areas are extrapolated to complete dataset using statistical methods
- Quality figures are given for
  - Actuality of the whole dataset
  - For each object class (roads, terrain, water, etc.):
    - Geometric accuracy, thematic accuracy, logical consistency, completeness

# Quality Control: Targets and Results

	Target	Overall score
Up to date	2 years	1 year
Complete	)	)
Correct	) > 95 %	) = 95,5 %
Geometry	)	)

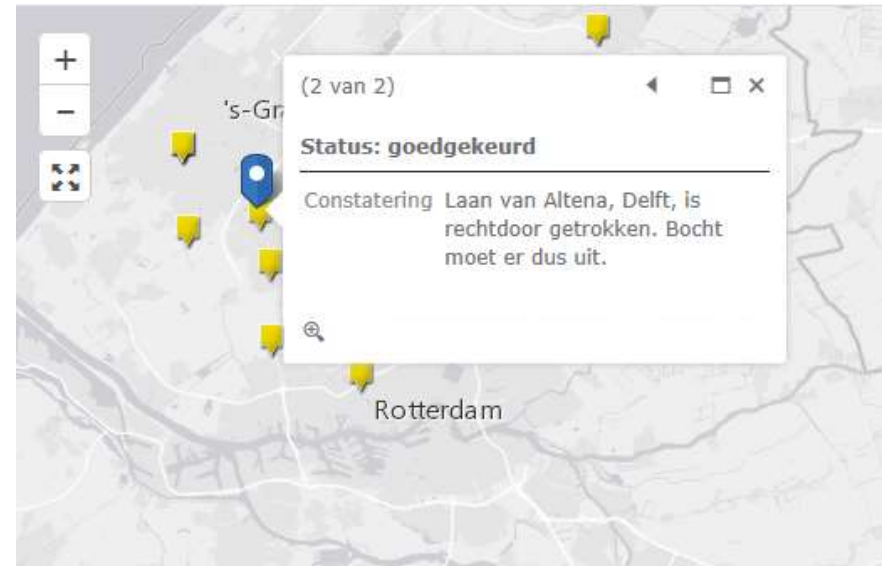
# Actions

- Quality improvements

- Attribute values
- Geometry

- Easy to use feedback system

- Working on a method for including all small scale products in the audit of the Key Register Topography



*we are*

OPEN

DATA



# Open data barometer, 2015

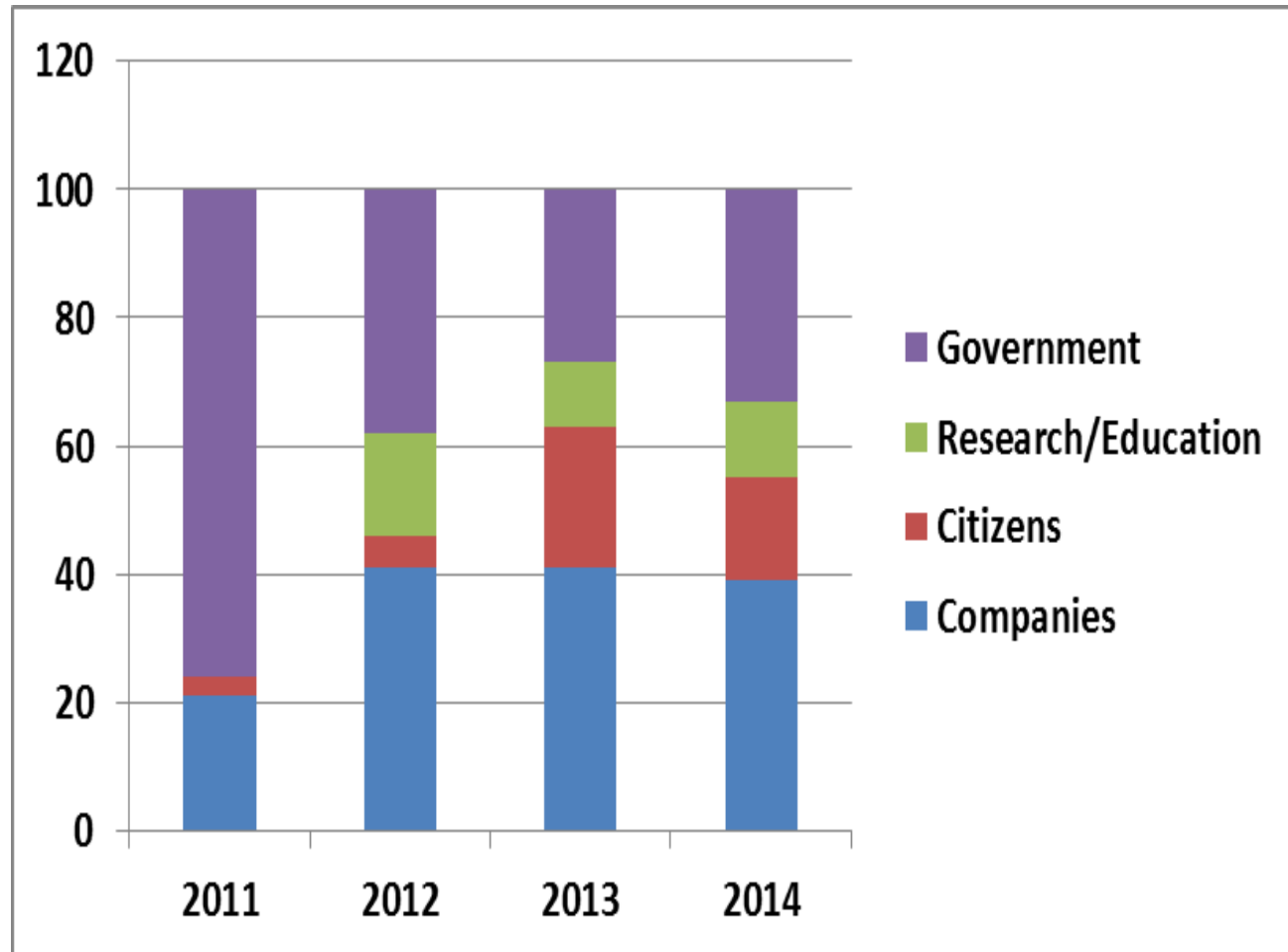
[Interactive](#)

[Image](#)

Country	Barometer Rank	ODB Scaled	Readiness (Scaled)	Implementation (Scaled)	Impact (Scaled)	2013 ODB	ODB Change	2013 Rank	Rank Change
UK	1	100	98	100	100	100	0	1	0
US	2	92.66	96	88	100	93.38	-0.72	2	0
Sweden	3	83.7	100	76	88	85.75	-2.05	3	0
France	4	80.21	91	75	84	63.92	16.29	10	6
New Zealand	4	80.01	81	88	55	74.34	5.67	4	0
⇒ Netherlands	6	75.79	95	76	57	63.66	12.13	10	4
Norway	7	74.59	88	73	64	71.86	2.73	5	-2
Canada	7	74.52	90	75	58	65.87	8.65	8	1
Denmark	9	70.13	94	54	95	71.78	-1.65	5	-4
Australia	10	68.33	92	69	43	67.68	0.65	7	-3
Germany	10	67.63	85	67	53	65.01	2.62	9	-1
Finland	12	66.49	93	54	78	49.44	17.05	14	2

# Effects of open data

Distribution of users in user groups





# Thank you!

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