Spatial Metadata matters

Vision & Wrap-up

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GEONOVUM

1. Introduction Geonovum (and myself)

- **Geonovum:** National Spatial Data Infrastructure executive committee
- **Key task:** coordinating adoption and implementation of standards that ensure the functioning of the national SDI. Developing and maintaining information models for key spatial data registries and some sectors.
- **Some indicators:** founded in 2007, non-for-profit, about 50 fte, government as only client
- **Management board:**

- **Alignment with international developments:**

2. Observations on SDI development

Current generation SDI:

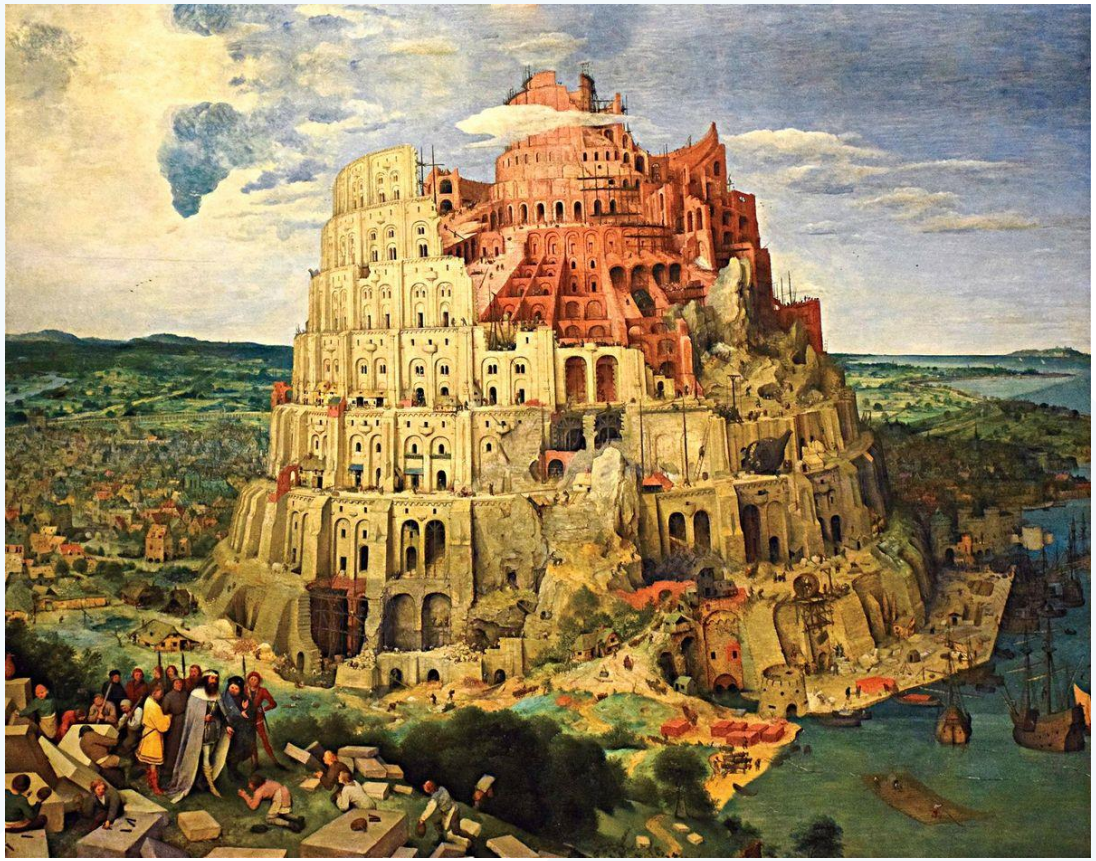
- Granularity: focus on datasets
- FAIRness: focus primarily on F and A, less on I and R
- Audience: *de facto* primarily for GI-specialists
- Impact: lot of unfulfilled potential

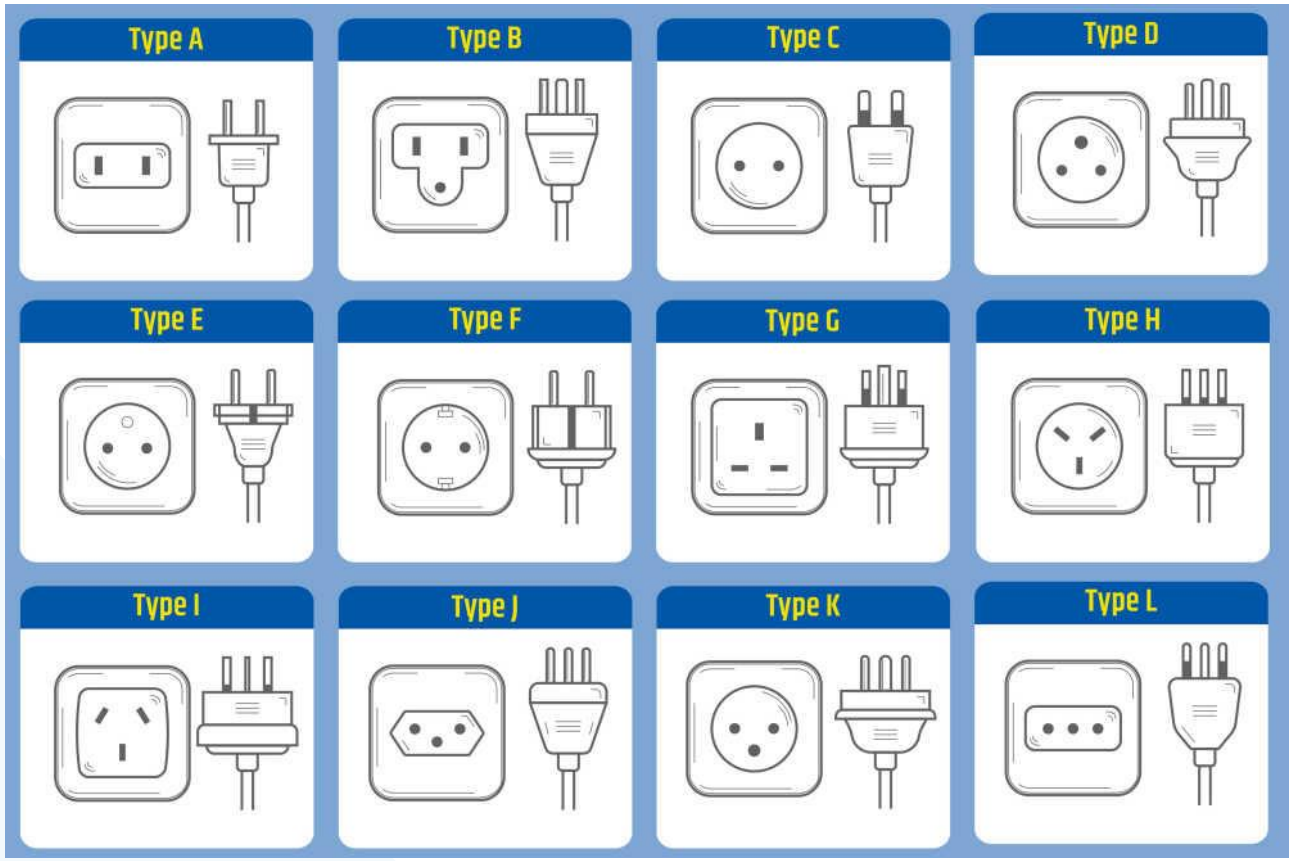
Next generation SDI:

- Granularity: focus on data instances
- FAIRness: truly FAIR – e.g. re-usable for completely new purposes
- Audience: data users – including non-specialists
- Impact: towards full potential

3. Towards next-gen SDI's: what is needed?

Interoperability: both on semantic and technical level

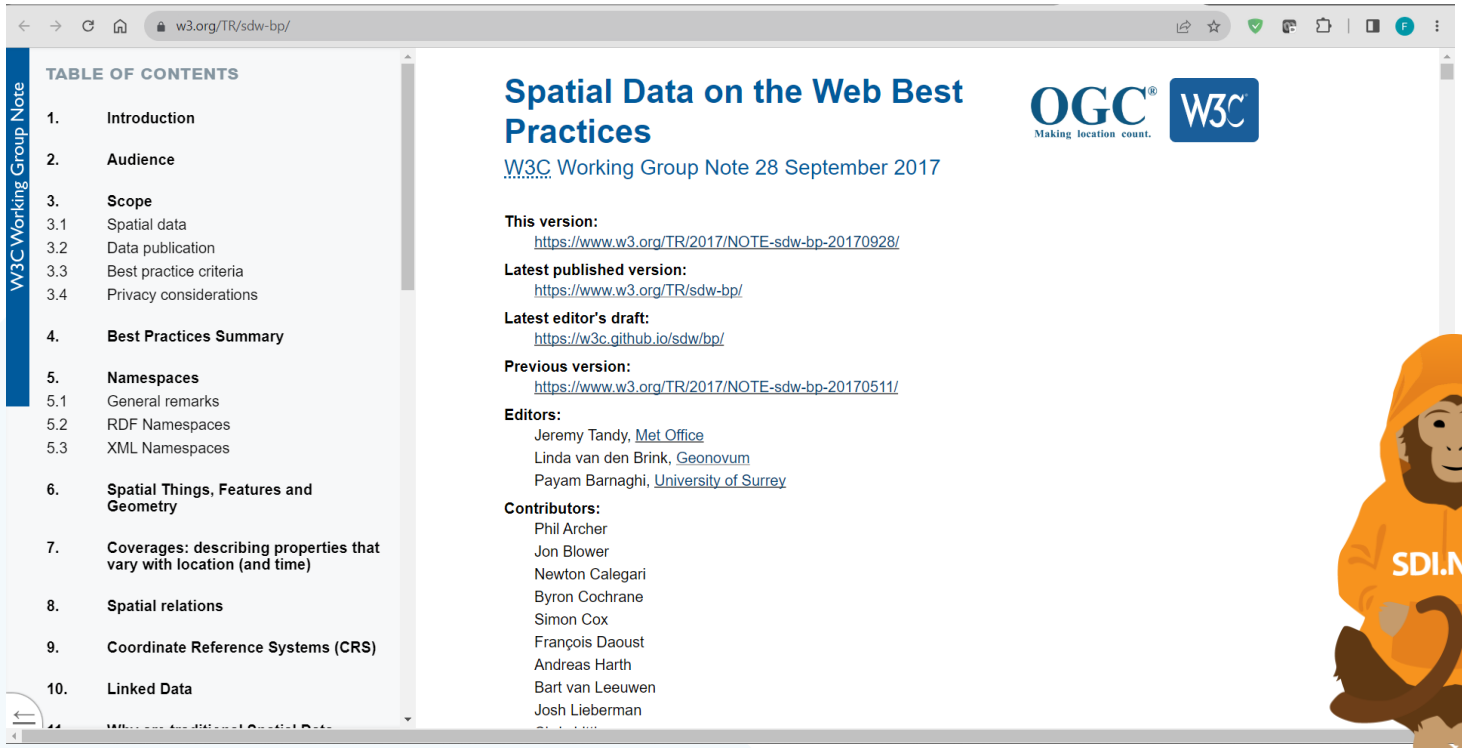




3. Towards next-gen SDI's: what is needed?

Make spatial less special

- 1st generation geo-standards: pretty early, but specialist-only
- Lowering tresholds for users: https://www.w3.org/TR/sdw-bp/
  SDOTW-BP / SDI.Next
- Proof of the pudding:
  - BAG API: 1st year
    300 million calls



w3.org/TR/sdw-bp/

W3C Working Group Note

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Spatial Data on the Web Best Practices

OGC Making location count. W3C

W3C Working Group Note 28 September 2017

This version:
https://www.w3.org/TR/2017/NOTE-sdw-bp-20170928/

Latest published version:
https://www.w3.org/TR/sdw-bp/

Latest editor's draft:
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3. Towards next-gen SDI's: what is needed?

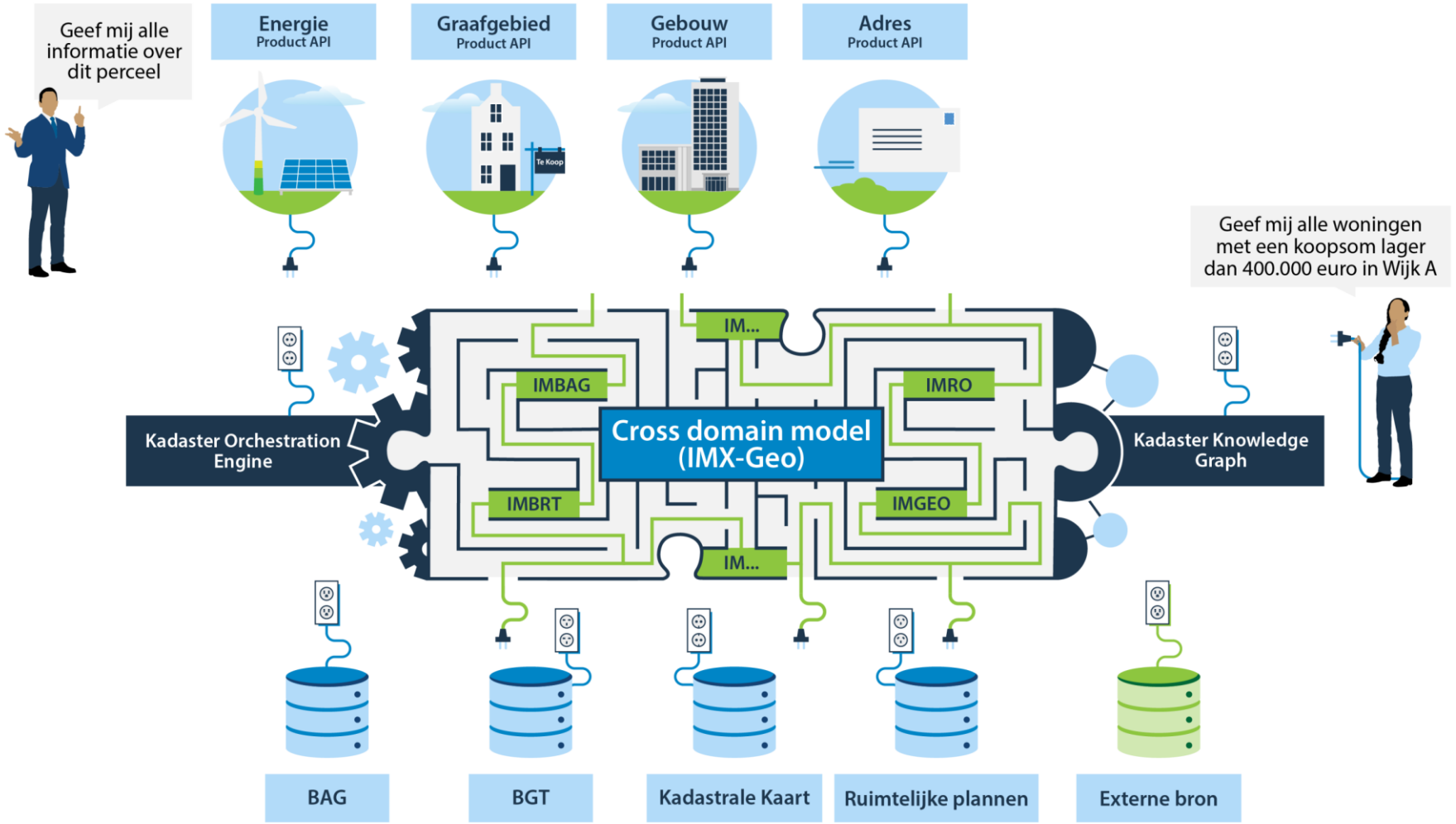
Fit for purpose standards

- *'80% of users require only 20% of the complexity'*
- Trend: modulair standards
- Examples:
  National – e.g. Dutch API design rules
  International – e.g. OGC API family

Onderdeel	Documentnaam & Verwijzing naar de gepubliceerde versie
Algemeen	Inleiding NL API Strategie
Algemeen	Architectuur NL API Strategie
Algemeen	Gebruikerswensen NL API Strategie
Normatief	API Design Rules (ADR)
Normatief	Open API Specification (OAS)
Normatief	NL GOV OAuth profiel
Normatief	Digikoppeling REST API koppelvlak specificatie
Functionele module	GEO module
Technische module	Transport Security module
Technische module	Access control module

3. Towards next-gen SDI's: what is needed?

Provide data products instead of data sets



4. Wrap-up

Next gen SDI's:

- Provide answers (data products) to users – a full-service approach instead of DIY

Hence, we need to be able to:

- find data sources
- understand the meaning of data
- combine data sources (both public and private sources)
- describe provenance / lineage

Thank you!

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