

OSLO - Interoperability

February, 26th 2019



Flanders
State of
the Art

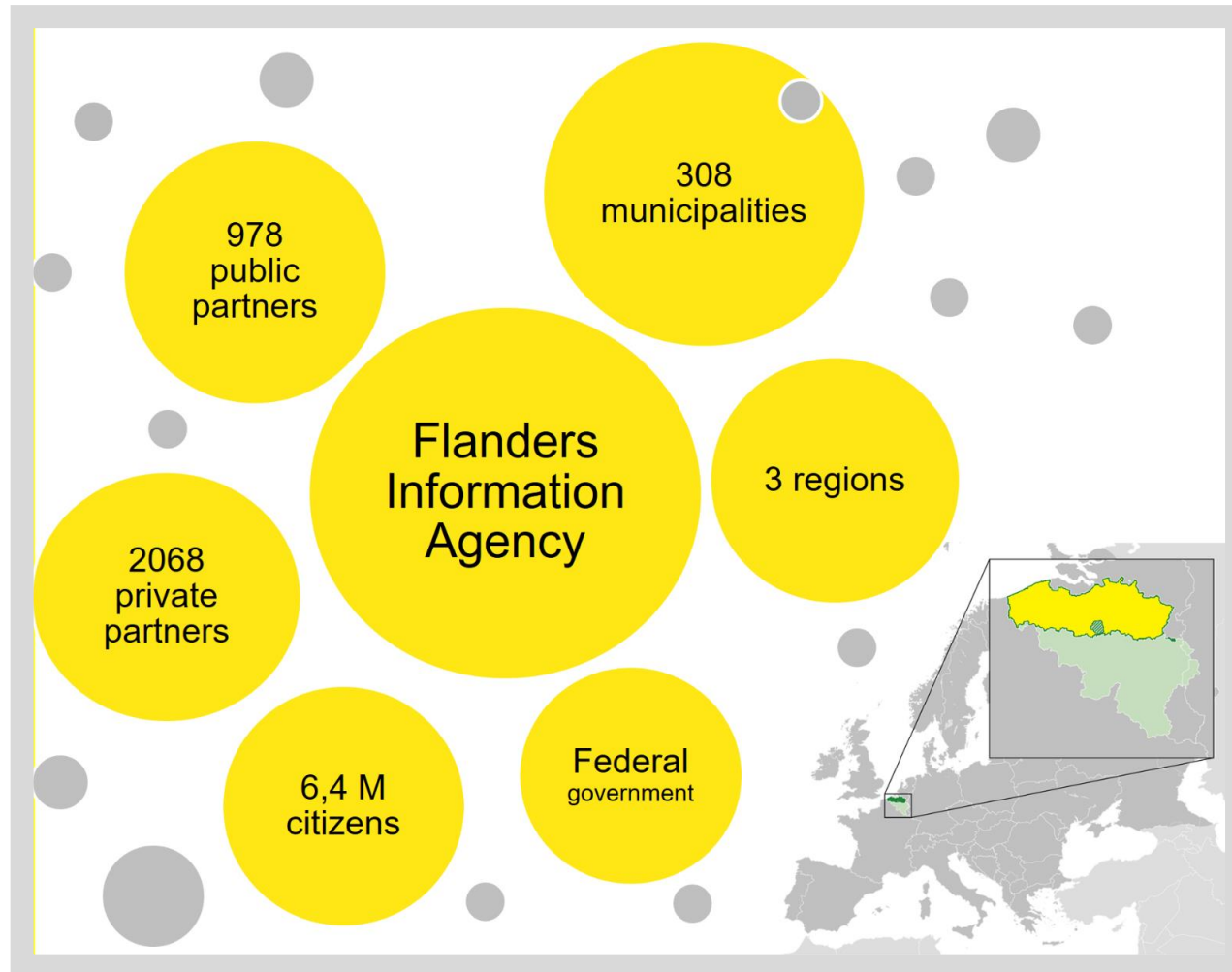


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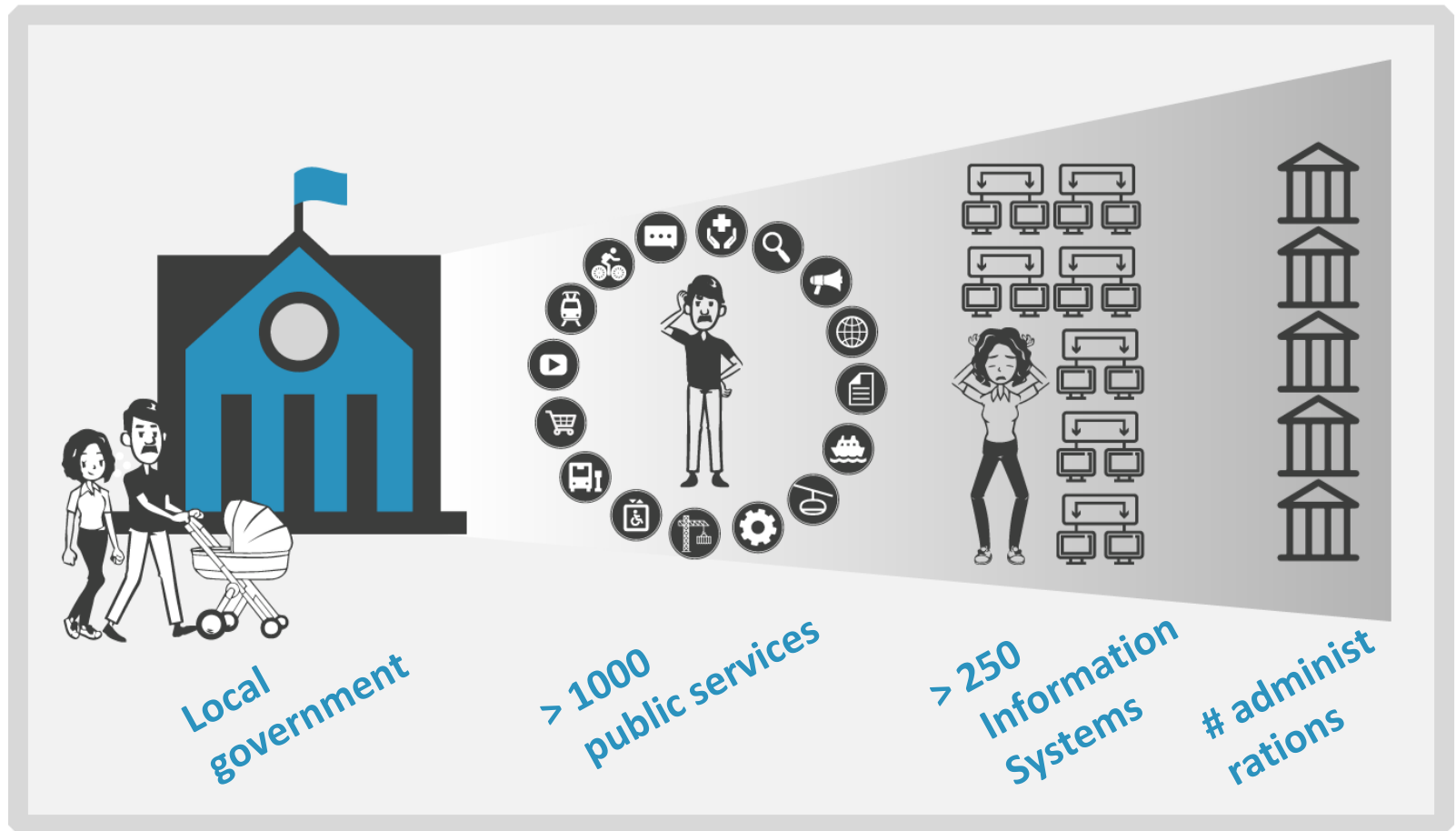
INFORMATIE
VLAANDEREN

Photo by Henry Marsh on Pexels

At the crossroads



OSLO – Grassroots initiative



Formally approved Flemish standard

One component is a profile of European standards e.g. for mobility

Motivation

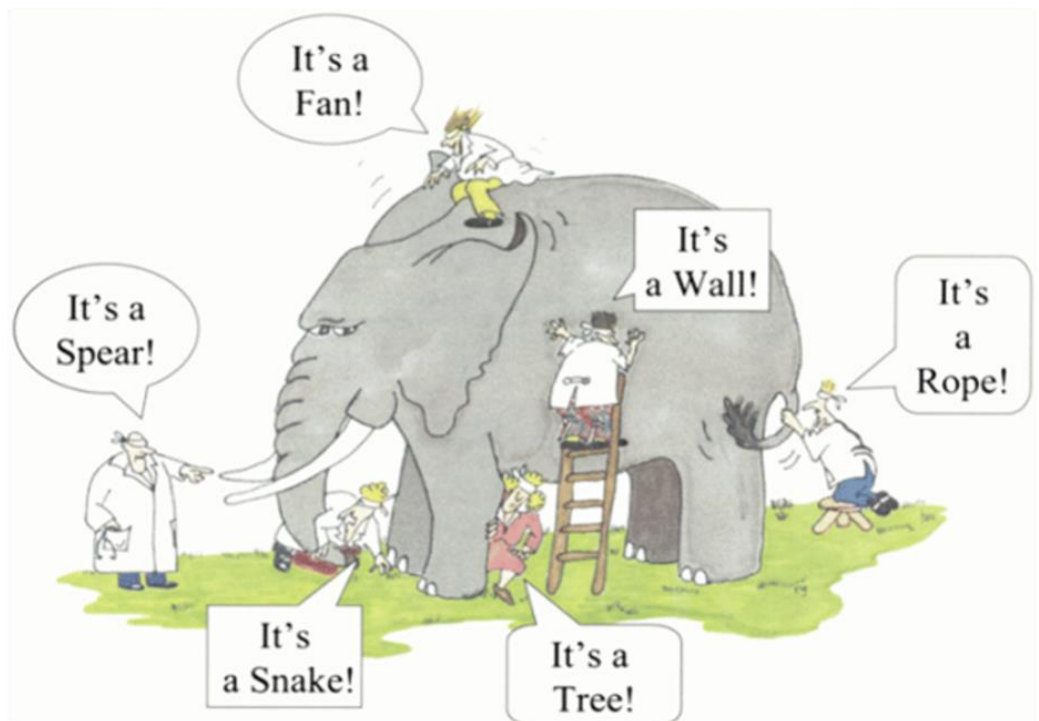
applications look at the 'real world'
from different perspectives

information is structured/modelled
from one perspective

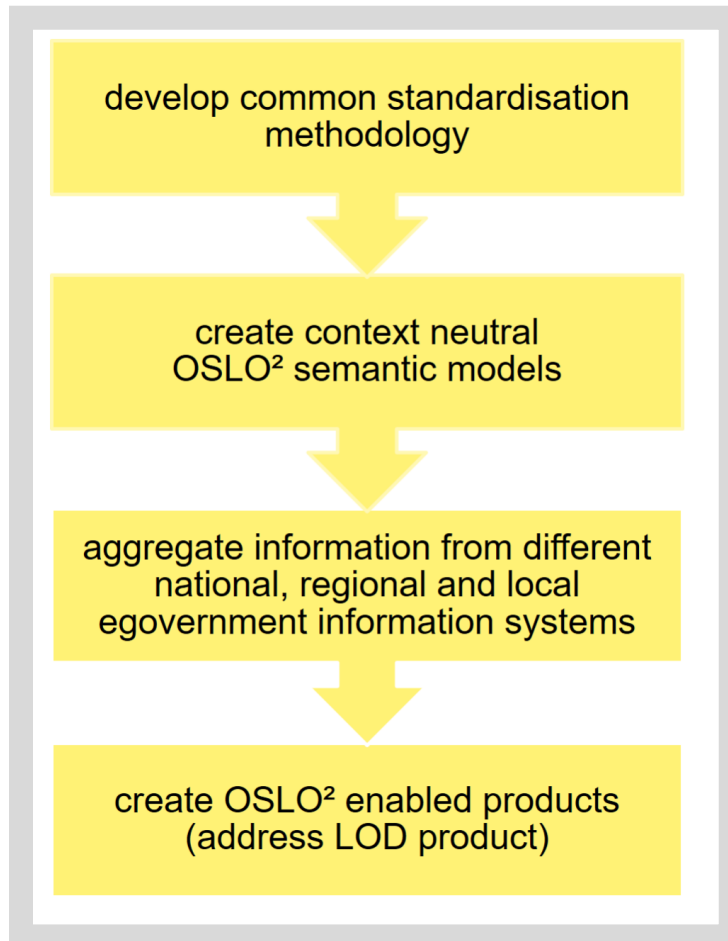
authoritative sources exist as
independent silo's

multiple investments for
interlinking data

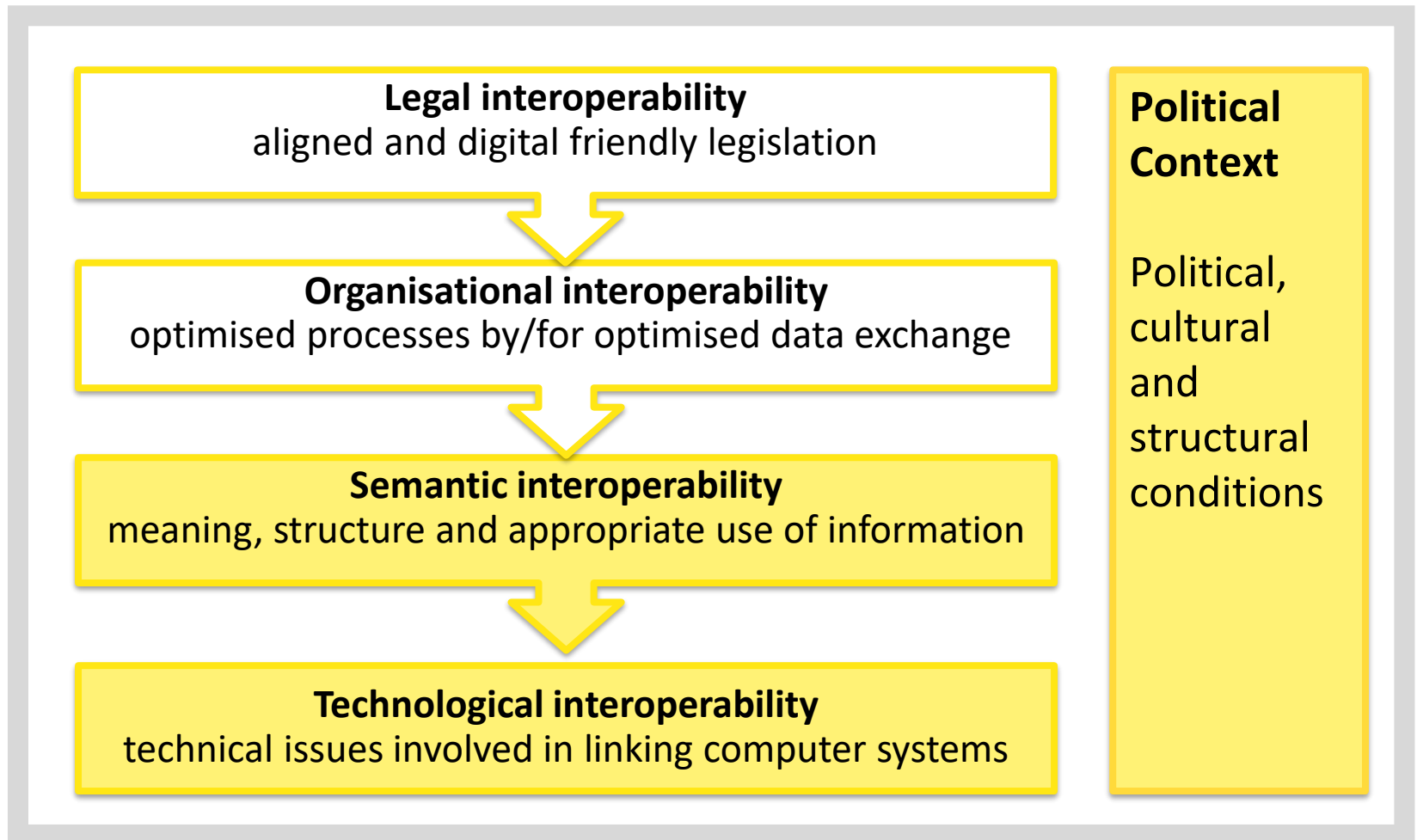
impact on the quality and the
efficiency of public services.



Objectives

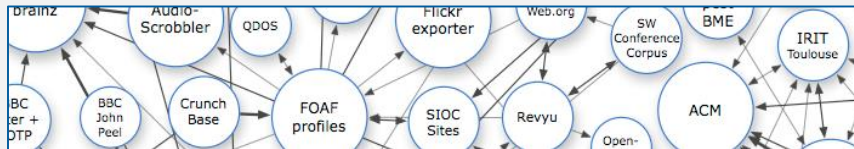


Interoperability levels



Share and Re-use

**W3C
International
Standards**



E.g for mobility Datex II, SIRI, NeTEx...

**EU ISA CORE
Vocabularies**

CORE
PERSON
VOCABULARY

CORE
BUSINESS
VOCABULARY

CORE
PUBLIC
ORGANISATION
VOCABULARY

DCAT-AP
FOR
DATA PORTALS
IN EUROPE

**OSLO
Extention**

OSLO
PERSON
VOCABULARY

OSLO
BUSINESS
VOCABULARY

OSLO
ROAD
VOCABULARY

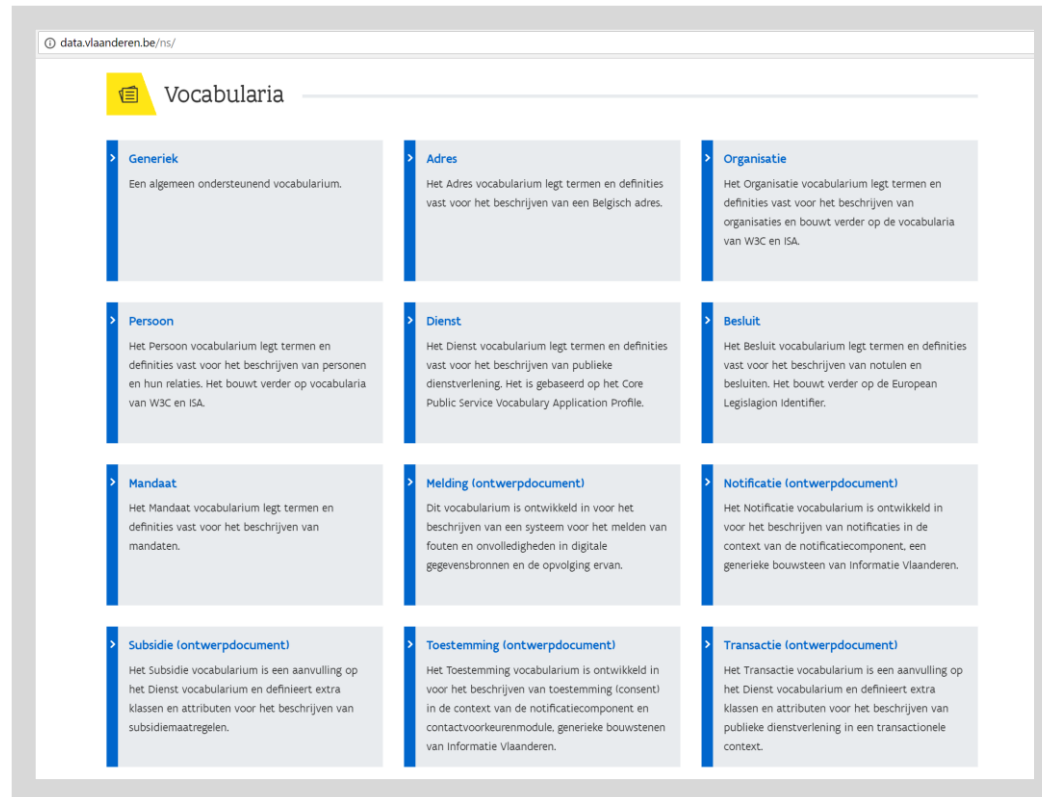
OSLO
ORGANISATION
VOCABULARY

OSLO
DCAT-AP VL
VOCABULARY



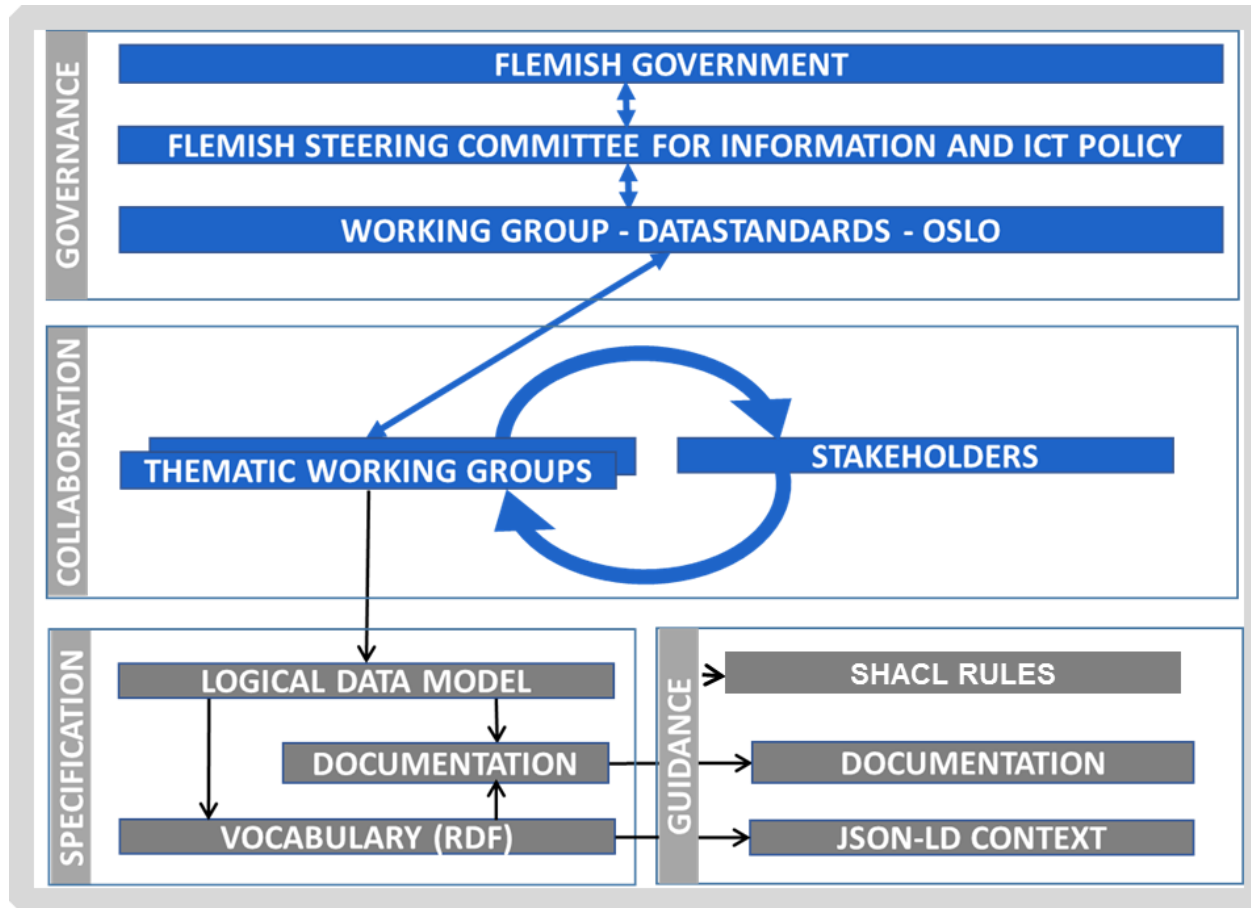
EU - ISA²
Federal Government
Regional Government
Local Government
Industry
Academia

data.vlaanderen.be



- > Person
- > Organisation
- > Address
- > Building
- > Road
- > Public Service
- > Transactional Services
- > Civic issue tracking
- > Notification
- > Consent (GDPR)
- > Contact preferences
- > Government Grants
- > Public Domain
- > Local Decisions
- > Political Mandate

Process and method for developing data standards



https://data.vlaanderen.be/cms/Proces_en_methode_voor_de_erkennin_g_van_datastandaarden_v1.0.pdf

Example parking data use-cases

Information on off-street parking

- (static information)
- operator contact information
- infrastructure
- opening hours
- tariffs and payment .
- (dynamic information)
- occupancy
- Status
- ...

Information on on-street parking

- (static information)
- operator contact information
- delivery zones
- short-term parking
- (dynamic information)
- occupancy
- ...



Photo by Andrey Kirov on Unsplash

Process

1. Actors

- Thematic working groups
 - Open public-private ITS.be working group
- Editors:
 - Linked OD Informatie Vlaanderen
 - EU standards ITS.be
 - Domain specialists
- Product owners
- Project management

2. Reporting a data standard

- Memorandum of Understanding
- Starting workshop - use cases, processes
- Working group charter
- Agreement of permanent working group on data standards

3. Develop specification

- Setting up working group
- Initial draft
- Working group meetings
- Interim draft
- Mid-term review of permanent working group on data standards
- Public review
- Finalizing specification
- Quality control permanent working group on data standards
- Ratify agreements

4. Publication

- Publication in human- and machine-readable format
- Publication of reusable elements
- Publication of conformity suite

Method

- **Memorandum of Understanding**
 - Importance and added value
 - Interface to existing standards
 - Which standards exist
 - Stakeholders
- **Working group charter**
 - Objective and scope
 - Evaluation criteria during development process
 - Duration of working group: Deliverables (e.g. specification document, software component)
 - Expected milestones (dates), where available
 - Approved internal process deliverables
 - Dependencies other working groups
 - Modalities of meetings (location, frequency)
 - Date of first face-to-face meeting
- **Communication mechanisms** (e.g. GitHub repository, mailing list, Google Drive folder, ...)
- **IPR**
- **Frequency of new releases**

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