Collaborative Custodianship of the Centraal Referentieadressenbestand (CRAB) in Flanders

Ziggy Vanlishout
programme manager authoritative data sources
Flanders Information Agency

978 public partners

308 municipalities

3 regions

2068 private partners

6,4 M citizens

Federal government

6,4 M citizens
Flanders Information Agency
miss globe meets mister cube

• New agency: 2016

• Merger of geospatial agency and e-gov department
Interoperability is a driver for information driven government

Base Registries

Address Registry
Once-Only

Local government

> 1000 public services

> 250 Information Systems

# administrations
Interoperability levels

Political Context
- Cooperating partners with compatible visions, aligned priorities, and focused objectives
- Aligned legislation so that exchanged data is accorded proper legal weight

Legal Interoperability
- Legislative Alignment

Organisational Interoperability
- Coordinated processes in which different organisations achieve a previously agreed and mutually beneficial goal
- Precise meaning of exchanged information which is preserved and understood by all parties

Semantic Interoperability
- Semantic Alignment

Technical Interoperability
- Planning of technical issues involved in linking computer systems and services
- Interaction & Transport
Collaboration drives interoperability

Co-create, use a participatory approach
  • Include stakeholders in the decision making process

Enable machine2machine communication
  • Api-first, standardise api’s, use open specifications...

Create a common language
  • Develop a semantic framework

Build upon existing business processes

Create a legal framework
  • CRAB decree, standards, ..
Semantic Interoperability
Open Standards for Linked Organisations (OSLO)
Base Registries

Ziggy Vanlishout,
programme manager authoritative data sources
A base registry is a trusted and authoritative source of information which can and should be digitally reused by others, where one organisation is responsible and accountable for the collection, use, updating and preservation of information. Base registries are reliable sources of basic information on data items such as people, companies, vehicles, licences, buildings, locations and roads. This type of information constitutes the ‘master data’ for public administrations and European public service delivery.

1 http://eur-lex.europa.eu/resource.html?uri=cellar:2c2f2554-0faf-11e7-8a35-01aa75ed71a1.0017.02/DOC_3&format=PDF
Base Registries

"cornerstone for user friendly public service delivery"

**Vision**

- **Efficiency**
  integrated public service delivery at a reduced investment cost

- **Relevance**
  re-use of the correct data within a formal legal framework

- **Transparancy**
  better policies because of integrated information

- **Customer-focus**
  Once Only Principle reduces administrative burden

**benefits**

- Develop and distribute data sources that contain core objects for public service delivery
- Core objects will be used across departments, administrations, policy domains, administrative levels and the private sector
- Highest quality, legal governance, ready for re-use, available in a semantic coherent framework

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Address Registry  
Building Registry  
Organisation Registry  
Public Service Registry  
Road Registry
Base Registries

Public Services

- deliver

Persons

- have
- live in
- are located at

Organisations

- are located in

Addresses

- are located in

Buildings

- own
- are located on

Base Map

- are represented on

Roads

- are represented on
- are located in

Parcels

- own

Address Registry
Address Registry

- Open Data
- >4 million addresses
- geographical coordinates
- synchronised in real time between 308 local governments
Authoritative data source for addresses

- **Legal framework**
  - CRAB-decree
  - Authentic source

- **Once only**
  - Municipalities: initiator
  - Information Flanders: administrator

- **Compulsory use**
  - Products
  - Services
  - Error reporting

- **Quality**
  - Correctness
  - Completeness
  - Up-to-dateness

Authentic geographical datasource for Flanders

Technology

- Marketing, support, promotion, communication

- Stakeholder management, governance
CRAB decree

8th of May 2009

• In to force since 1 juni 2011

Unambiguous conceptual framework

• address, streetname, house number, ...

Clear distribution of responsibilities

• municipality: initiator
  • Max 4 years
  • Information Flanders: administrator

1st of June 2011: authentic geographical data source

• Compulsory use governmental institutions
• Obligation to report errors
Responsibility municipality

initial validation
- 4 year (2015)
- Streetnames, housenumbers, box numbers

updating
- Municipality is autonomous

registration
- 10 working days after approval
- online webservice
- Exchange of local database
- CRAB-specifications

Error reporting
- contactpoint municipality
- 10 working days / 6 months
BeStAdd cooperation agreement

Administrators (regions)
- Address registries available as from 1/1/2017
- Update (eg processing of error reports)
- Instructions to initiators
- Data distribution

initiators (municipalities)
- Registration of new, modified and deleted address information
- According to instructions

partners (federal government)
- FedICT, NGI, AAPD, RR, V&P, statistics, KBO, bpost
- Platform for information exchange (FedICT)
- Compulsary use/error reporting
Inter-administrative cooperation on all levels

Federal Government (partner)

Region (administrator)

municipalities (initiator)
Architecture of distributed updating

WEBGRAB

xGRAB

Gemeente

applicatie

applicatie

lokale adresdb

lokale adresdb

LARA

GRAB-services (raadplegen,bewerken)

CRAB office

synchroniseren

AGIV
Intensive use of CRAB

251/308 municipalities initially validated

Faster response to error reports
TAKE AWAY

The once only principle reduces administrative burden

Base Registries are the cornerstone of public service delivery

Collaborative custodianship drives interoperability

Better policies because of integrated information

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