SMART SURVEYORS FOR LAND AND WATER MANAGEMENT
CHALLENGES IN A NEW REALITY

FIG NL THE NETHERLANDS

e WORKING WEEK 2021
20-25 JUNE

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Paper ID-11140
Success and Growing Use of Geo Data Asks for Integrated Information Supply
21 June 19:30—21:00 CEST

ORGANISED BY FIG GIN Geo-Informatie Nederland kadaster ITC UNIVERSITY OF TWENTE

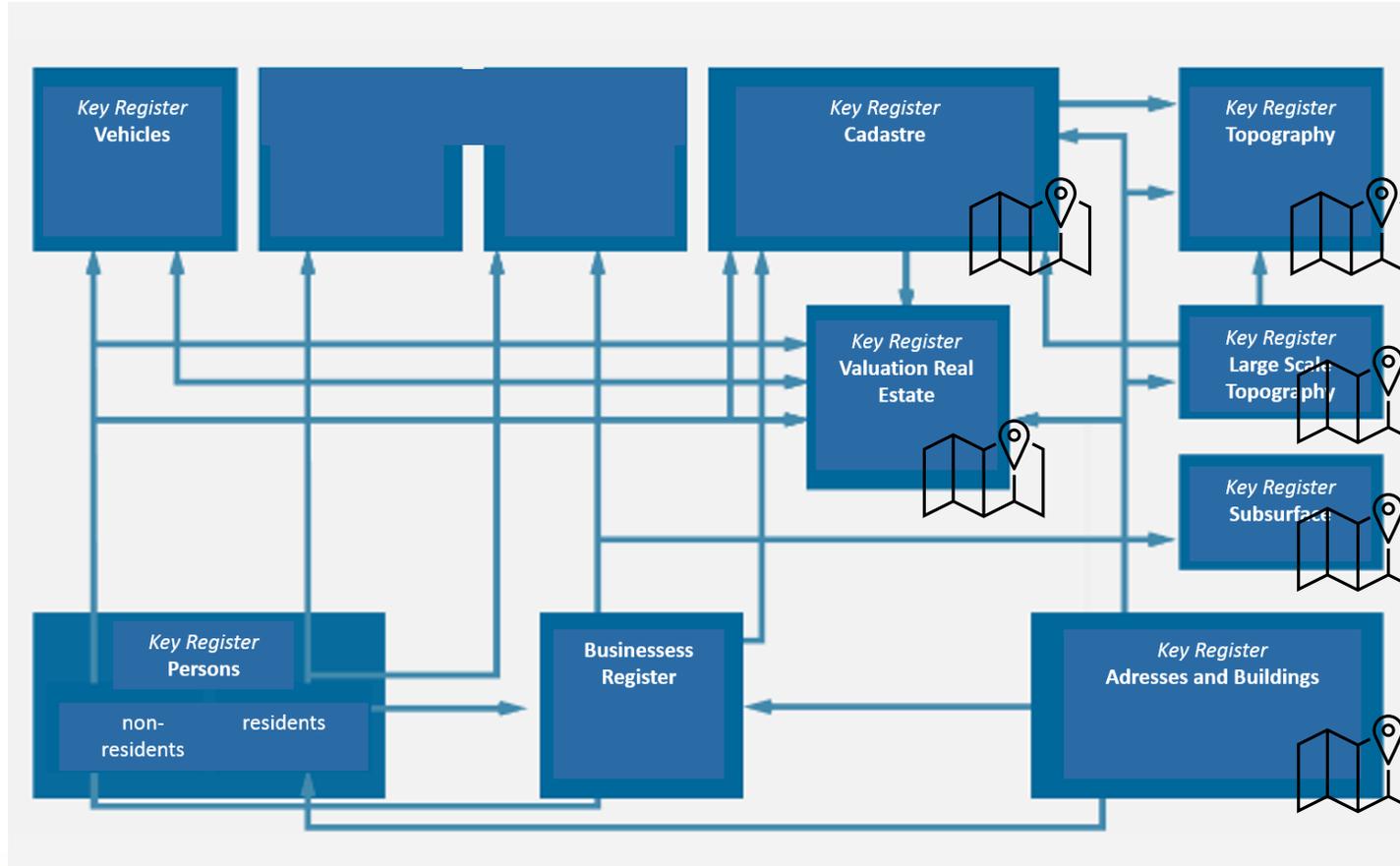PLATINUM SPONSORS Trimble. esri THE SCIENCE OF WHERE

# BAG (Addresses and Buildings)

- Key register

- Adresses and Buildings

- Law came into force:
  - Registration: 2009
  - Use: 2011

- Evaluation of the law: 2014

- Improved law came into force: 1 juli 2018

# System of key registers



SDI developments in the Netherlands are strongly related to the key registries of e-government policy (interrelated system).

Spatial key registries with Legal Acts for:
BRK – Cadastre
BRT - Topography
BGT – Large scale Topography
BAG - Addresses and Buildings
BRO – Soil and Geology
NHR – Chamber of commerce
WOZ - Real estate value

Non-spatial registries, like population, car license plates, income.

# http://bagviewer.kadaster.nl

Basisregistraties Adressen en Gebouwen (BAG)

Opnieuw beginnen    Terugmelding    Gebruik viewer    Wat is BAG    PDF

**Zoeken**

hofstraat 110

Aantal resultaten: 5

- Hofstraat 11-01 Kampen
- Hofstraat 11-02 Kampen
- Hofstraat 110 Apeldoorn
- Hofstraat 110 Kampen
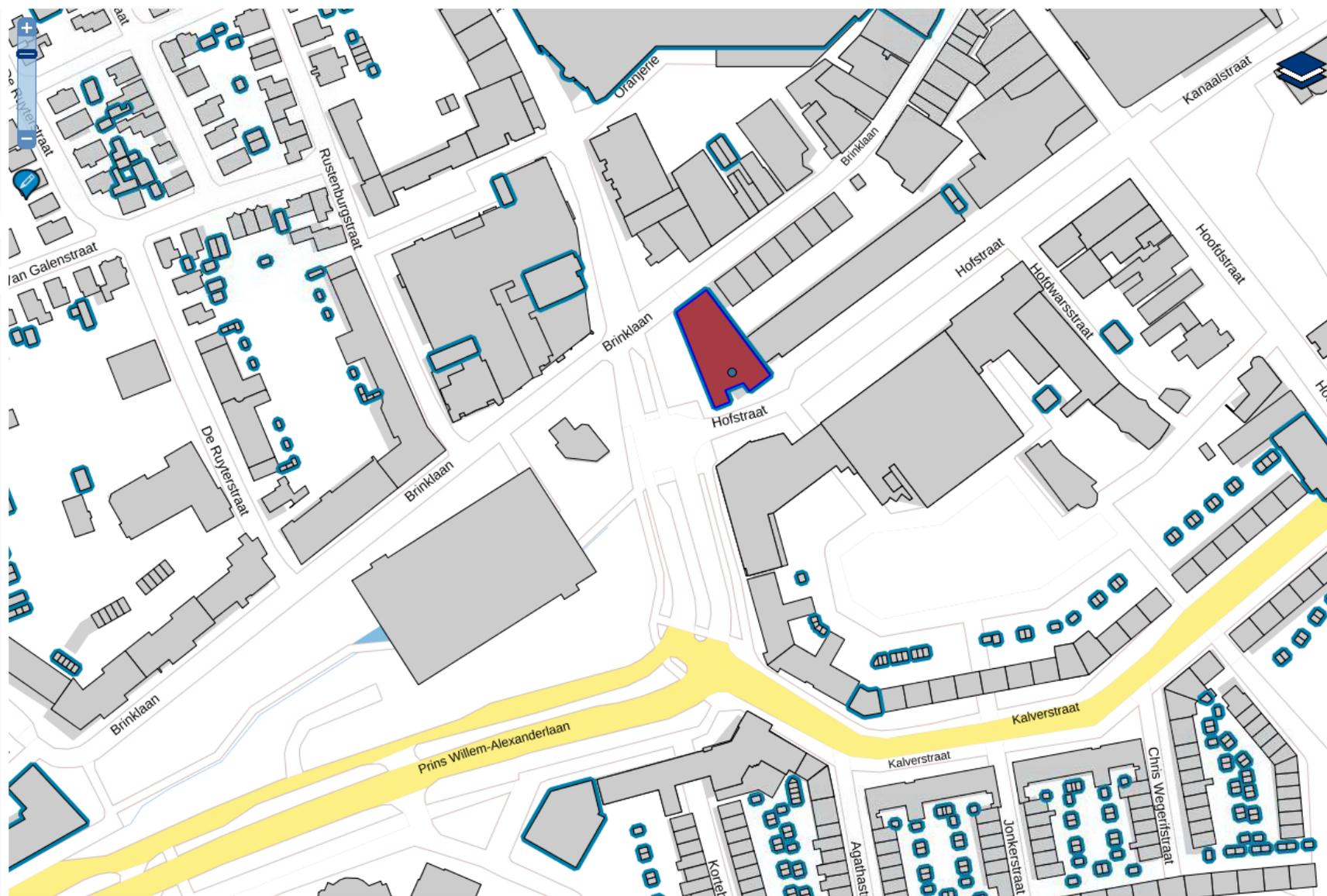- Hofstraat 110 Den Oever

**Uitgebreid zoeken** ⌄

**Filteren** ⌃

☑ **Panden met VBO**

☑ **Panden zonder VBO**

van .... Bouwjaar t/m ....

**Pandstatus** ☑ **alles**

☑ **Bouwvergunning verleend**

☑ **Bouw gestart**

☑ **Pand in gebruik (niet ingemeten)**

☑ **Pand in gebruik**

☑ **Pand buiten gebruik**

☑ **Sloopvergunning verleend**

van .... Oppervlakte t/m ....

**Gebruiksdoel** ☐ **alles**

☐ **Wonen**    ☐ **Bijeenkomst**

☐ **Winkel**   ☐ **Gezondheidszorg**

☑ **Kantoor**  ☐ **Logies**

**Resultaat**
**Hofstraat 110 Apeldoorn** 📍

**Pand** ✎
| | |
|---|---|
| ID | 0200100000001088 |
| Bouwjaar | 1982 |
| Status | Pand in gebruik |

**Verblijfsobject** ✎
| | |
|---|---|
| ID | 0200010000090244 |
| Gebruiksdoel | kantoorfunctie |
| Oppervlakte | 8870 m2 |
| Status | Verblijfsobject in gebruik |

**Nummeraanduiding** ✎
| | |
|---|---|
| ID | 0200200000007079 |
| Postcode | 7311KZ |
| Huisnummer | 110 |
| Huisletter | |
| Huisnummer toev. | |
| Status | Naamgeving uitgegeven |

**Openbareruimte** ✎
| | |
|---|---|
| ID | 0200300022471548 |
| Naam | Hofstraat |
| Status | Naamgeving uitgegeven |

**Woonplaats** ✎
| | |
|---|---|
| ID | 3560 |
| Naam | Apeldoorn |
| Status | Woonplaats aangewezen |

**Bronhouder**
| | |
|---|---|
| ID | 0200 |
| Naam | Apeldoorn |

# Information in the BAG (Adresses and Buildings)

- ID's
- constructionyear
- Purpose
- Surface
- Geometry
- Addresses
- Town
- Status of objects

- History and future (object lifecycle)
- Current information

# Figures BAG 2020

Webservice requests: **3.5 billion**

BAG Webservices leveringen via Kadaster/PDOK



- Changes made to the register: 2 million

- Objects: 20 million

- User satisfaction 2020: 7,5 (out of 10)

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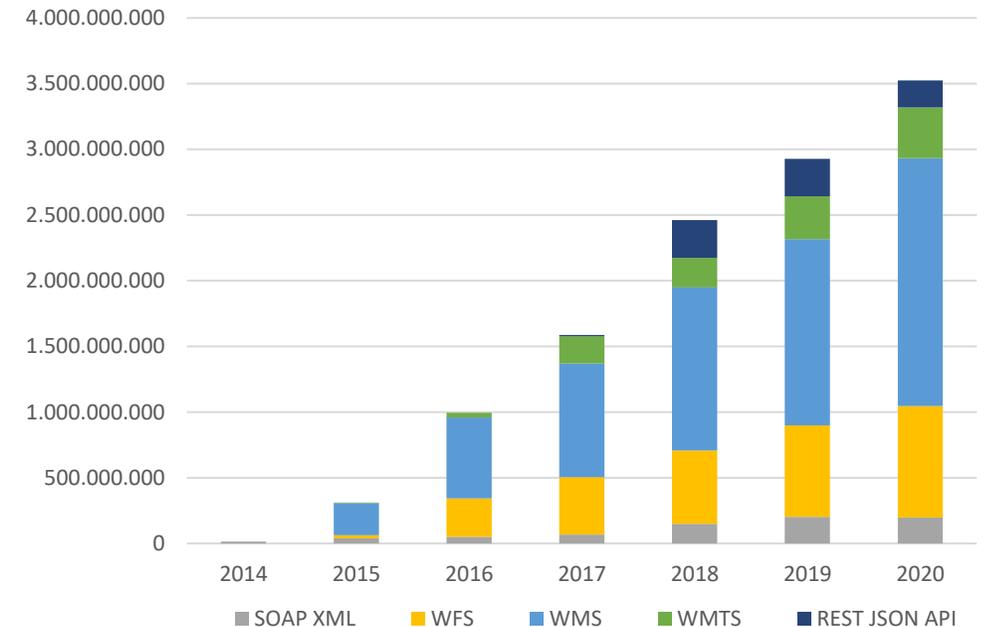
# Direct and indirect users BAG

- Base Register Personal Records
- Trade Register
- TAX-office
- Land/houses owners registry
- Student register
- Police, Fire Brigade, Ambulance
- Child/family allowance
- Pension funds
- Insurance companies
- Car navigation

# Key success factors

- Quality priorities fit for use

- Availability

- Continuous development

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# Starting points

- Roles and responsibilities

- Central facility

- User involvement

# Roles and responsibilities

| | |
|---|---|
| Policies | Ministry of the Interior |
| Supervision | Ministry of the Interior |
| Content (data entry) | Municipalities |
| Support | Kadaster |
| Steering | BAG BAO (board with municipalities and users) |
| Advise to the minister | BAG BAO |
| Functional management LV BAG | Kadaster |
| Application and IT management LV BAG | Kadaster |
| Quality management (support, dashboards) | Kadaster |

# Central facilities



Registration: Municipalities

Management Central Facility: Cadastre

Supply to Users

System of key registers

# Governance and user influence

- Minister of the Interior: political responsible for the BAG

- 3 levels of user involvement:

  - BAG BAO (2 times a year):

    - Steering commitee and advisor to the minister:

    - Board of municipalities and obligatory users (public parties), incl ministry and Kadaster, Kadaster has the secretary role to the BAG BAO, members have executive levels

  - BAG BAO Agenda-overleg (3 / 4 times a year):

    - Tactical commitee and preparation of BAG BAO:

    - Same parties as BAG BAO, members have roles like information-managers

  - BAG User council (3 / 4 times a year):

    - Operational feedback and advise between registrants and users, may lead to advise/requests to BAG BAO

    - All parties, including private parties that are operationally involved in the BAG

**BAG BAO**
Bronhouders Afnemers Overleg

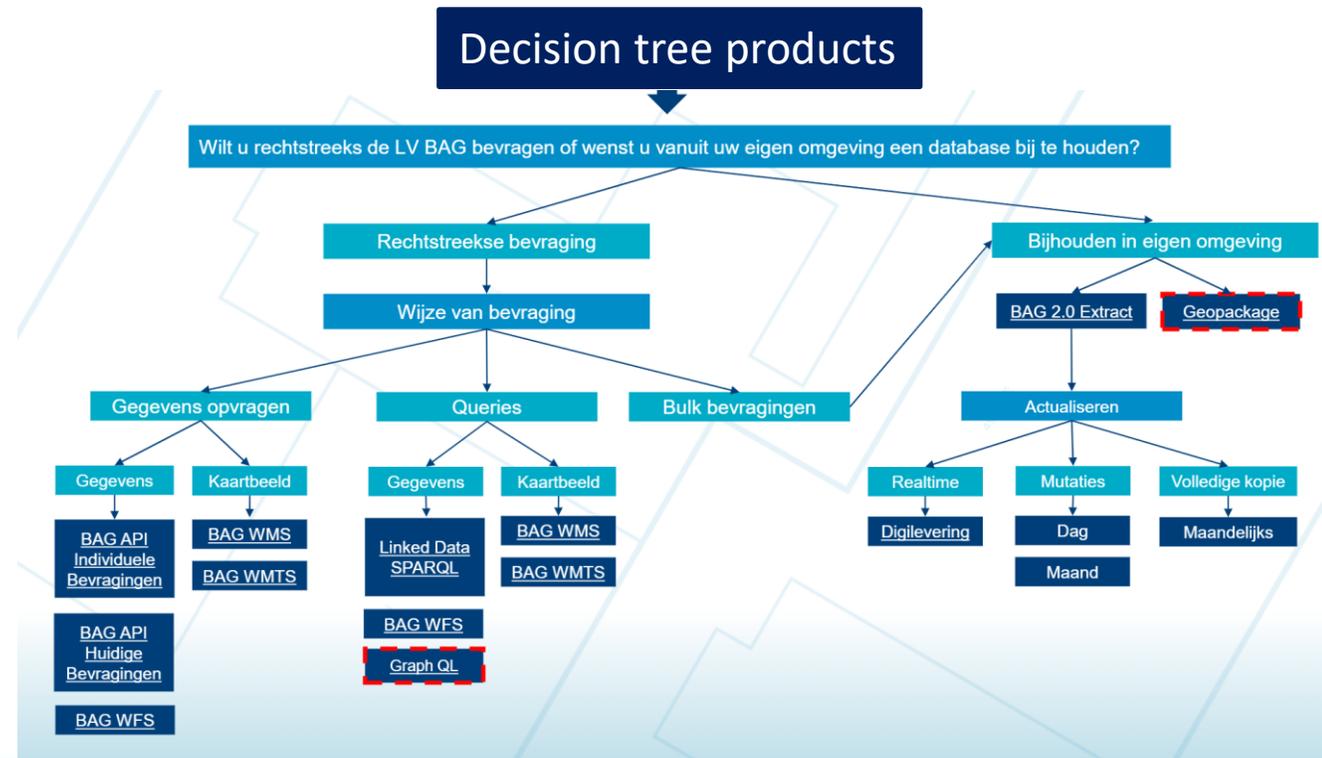# Success factor: Quality priorities fit for use

- Quality control cycle
  - Yearly priorities

- Quality dashboards

- Crowdsourcing

# Success factor: Availability

- Actual data
  - Daily updates by municipalities
  - Realtime supply to users

- Easily available

- Productportfolio

# Success factor: Continuous development

- User influence (e.g. user council, surveys)

- Productportfoliomanagement

- Developments
  - 3D
  - Data integration

# Poll:

# What aspect would you address first to stimulate use of your data?

- Open data

- Quality

- Availability

- User influence

- Other: please type in the chat