



Netherlands Enterprise Agency

Possession and access to data for building renovation *a Dutch perspective*

Lisbon 23-03-2022

ir. Thomas Wellink (NL) 



content

- 1 Data sources
- 2 Digitalspace Built Environment
- 3 Dataspace Measured Energy Consumption in Non-Residential Buildings



Public Buildings

2024 introduction of MEPS2050 non-residential buildings

2019 12 sectoral roadmaps (school, health care, police ect.)

2022 first progress report

2025 Integral evaluation: is 90% executed conform planning?

2023 Obligation for offices to have energy certificate C

Environmental Management Act

- Obligation to take energy saving measures with a cost recovery period of five years or less
- Obligation to notify the national government about the implemented measures



Article 5: Public sector leading on energy efficiency

- › MS shall ensure that the **total final energy consumption of all public bodies combined is reduced by at least 1,7% each year**, when compared to the year X-2.
- › MS shall include, in their national energy and climate plans and updates thereof pursuant to Regulation (EU) 2018/1999, **the amount of energy consumption reduction to be achieved by public bodies per sector.**



Article 6: Exemplary role of public bodies' buildings

- › MS shall ensure that at least **3% of the total floor area** of heated and/or cooled buildings owned public bodies is renovated each year to at least **be transformed into nearly zero-energy buildings** in accordance with Article 4 9 of Directive 2010/31/EU.
- › The rate of at least 3% shall be calculated on the total floor area of buildings having with a total useful floor area over **250 m2 owned by public bodies** of the MS concerned and which, on 1 January 2024, are not nearly zero-energy buildings.



Data is scattered in multiple sources

FUNCTION

SIZE

**ENERGY
CONSUMPTION**

OWNERSHIP

USAGE

**ENERGY
PERFORMANCE**

LOCATION

**MONUMENTAL
STATUS**



Size, location, ownership → Kadaster

- > Database = BAG
 - Management; independent authority Kadaster
 - Data source: local government
- > Since 1832
- > Data consists:
 - Floor area m²
 - In-use or vacancy
 - Function
 - Year of construction

Zoeken

croeselaan

Aantal resultaten: 484

- [Croeselaan Utrecht](#)
- [Croeselaan 1 Utrecht](#)
- [Croeselaan 3 Utrecht](#)
- [Croeselaan 4 Utrecht](#)
- [Croeselaan 6 Utrecht](#)
- [Croeselaan 8 Utrecht](#)
- [Croeselaan 14 Utrecht](#)
- [Croeselaan 14P Utrecht](#)
- [Croeselaan 15 Utrecht](#)
- [Croeselaan 16 Utrecht](#)
- [Croeselaan 18 Utrecht](#)
- [Croeselaan 19 Utrecht](#)
- [Croeselaan 21 Utrecht](#)
- [Croeselaan 23 Utrecht](#)
- [Croeselaan 24 Utrecht](#)
- [Croeselaan 25 Utrecht](#)
- [Croeselaan 27 Utrecht](#)
- [Croeselaan 28 Utrecht](#)
- [Croeselaan 29 Utrecht](#)
- [Croeselaan 75 Utrecht](#)

> >>

Uitgebreid zoeken

Filteren



BAG powered by Kadaster | Toegankelijkheid

Resultaat

[Croeselaan 15 Utrecht](#)

Pand

ID [034410000016139](#)
 Oorsp. bouwjaar 1998
 Status Pand in gebruik

Verblijfsobject

ID [034401000083034](#)
 Gebruiksdoel bijeenkomstfunctie, kantoorfunctie
 Oppervlakte 15741 m2
 Status Verblijfsobject in gebruik

Nummeraanduiding

ID [034420000090949](#)
 Postcode 3521BJ
 Huisnummer 15
 Huisletter
 Huisnummer toev. Status Naamgeving uitgegeven

Openbare ruimte

ID [034430000000116](#)
 Naam Croeselaan
 Status Naamgeving uitgegeven

Woonplaats

ID [3295](#)
 Naam Utrecht
 Status Woonplaats aangewezen

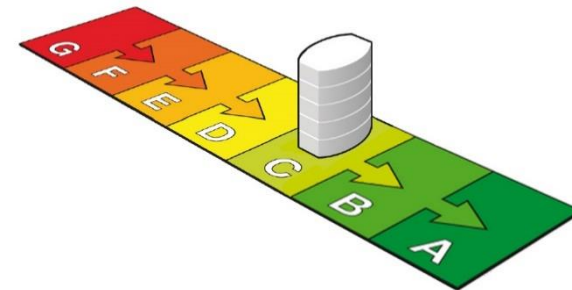
Bronhouder

ID 0344
 Naam Utrecht

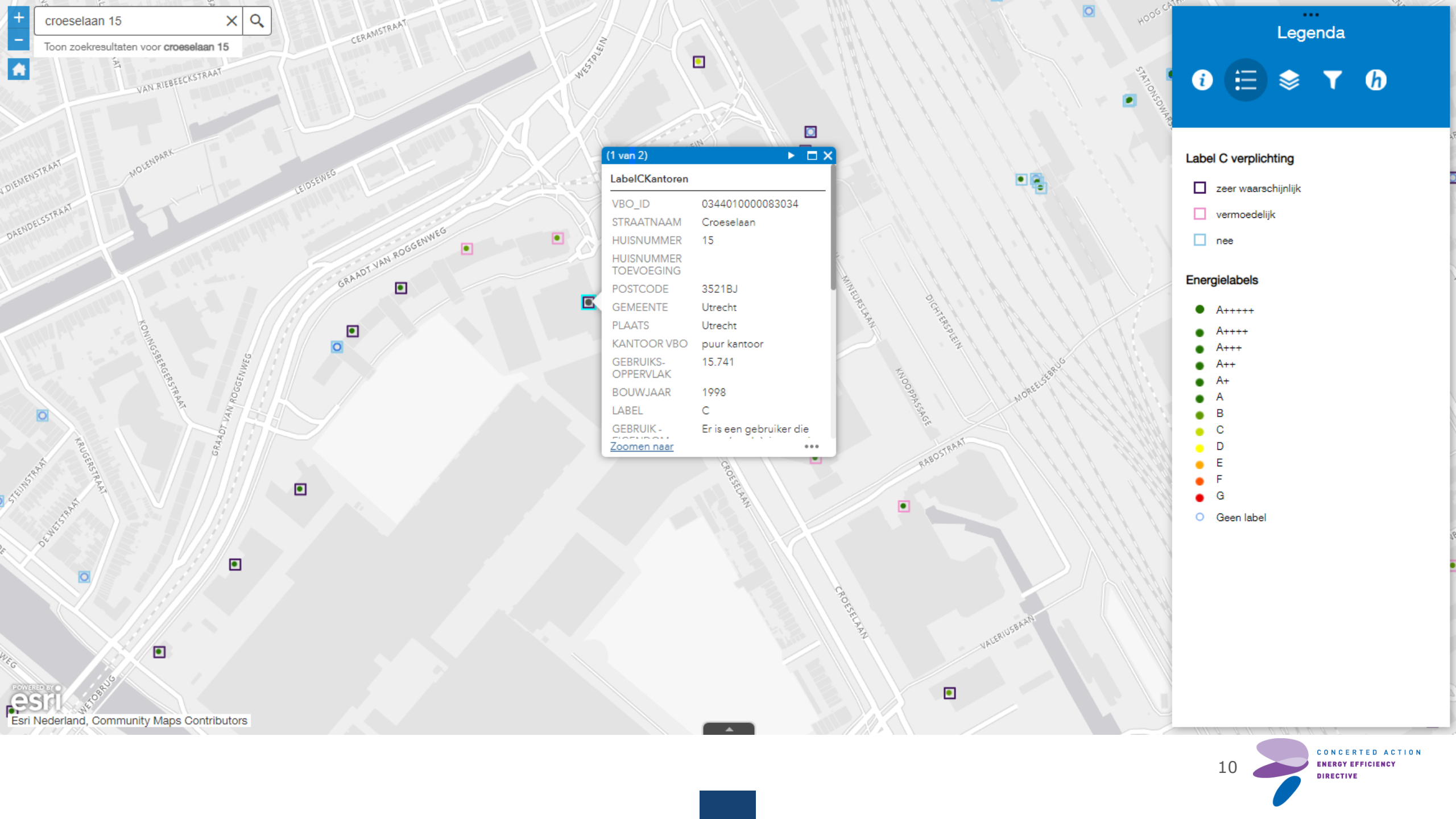


Energy performance → Building Energy Labels

- > Database = EP-Online (Central Government)
- > Since 2008
- > Mandatory by sale, rental or delivery of non-residential buildings.
- > Valid for a maximum of 10 years.



- > It applies to buildings with the following non-residential functions:
 - Office,
 - Education,
 - Meeting,
 - Healthcare,
 - Lodging,
 - Sport,
 - Stores



croeselaan 15

Toon zoekresultaten voor croeselaan 15

(1 van 2)

LabelCKantoren	
VBO_ID	0344010000083034
STRAATNAAM	Croeselaan
HUISNUMMER	15
HUISNUMMER TOEVOEGING	
POSTCODE	3521BJ
GEMEENTE	Utrecht
PLAATS	Utrecht
KANTOOR VBO	puur kantoor
GEBRUIKS-OPPERVLAK	15.741
BOUWJAAR	1998
LABEL	C
GEBRUIK-	Er is een gebruiker die
	Zoomen naar

Legenda



Label C verplichting

- zeer waarschijnlijk
- vermoedelijk
- nee

Energie labels

- A++++
- A+++
- A++
- A+
- A
- B
- C
- D
- E
- F
- G
- Geen label



Usage/activity's → Chamber of Commerce KVK

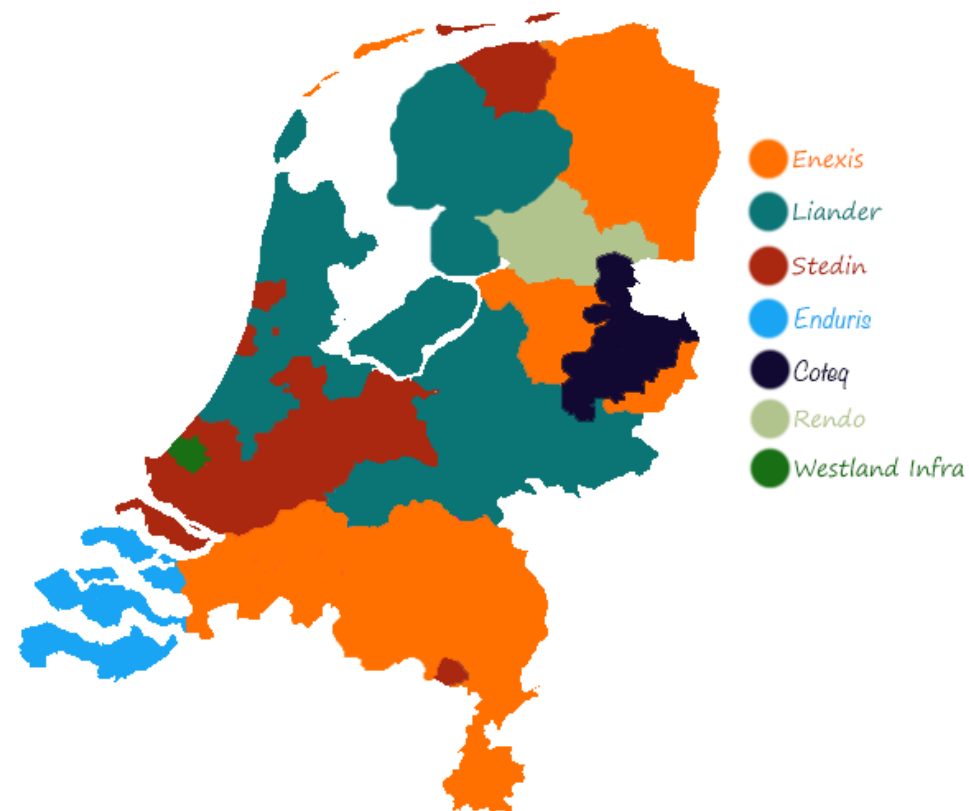
- > Database = Commercial Register (Central Government)
- > Since 1803
- > All businesses and legal entities in the Netherlands are required to register in the Commercial Register.

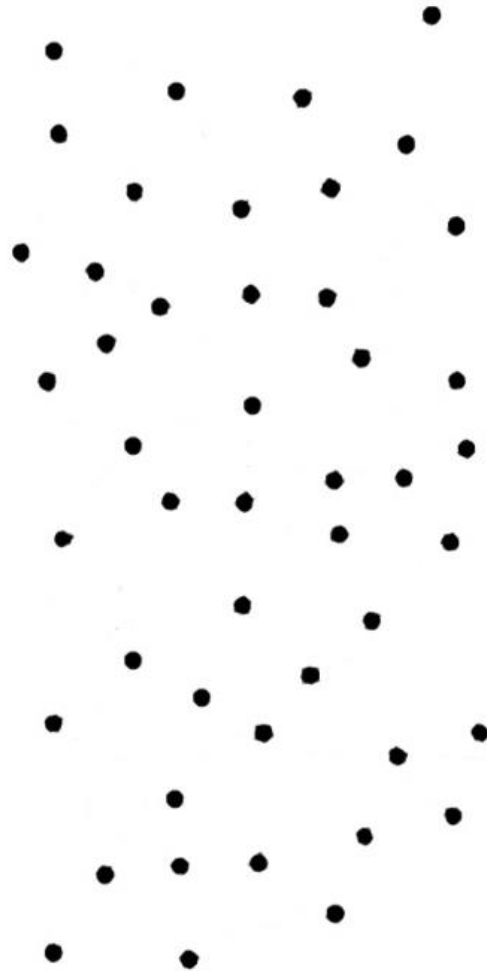
0	Public administration, public services and compulsory social security
84	Public administration, public services and compulsory social security
84.1	Public administration
84.11	General public administration
84.12	Public administration in the field of health care, education, cultural services and social services (no social security)
84.13	Public administration in the field of operation of businesses
84.2	Public services
84.21	Foreign affairs
84.22	Defence activities
84.23	Justice and judicial activities



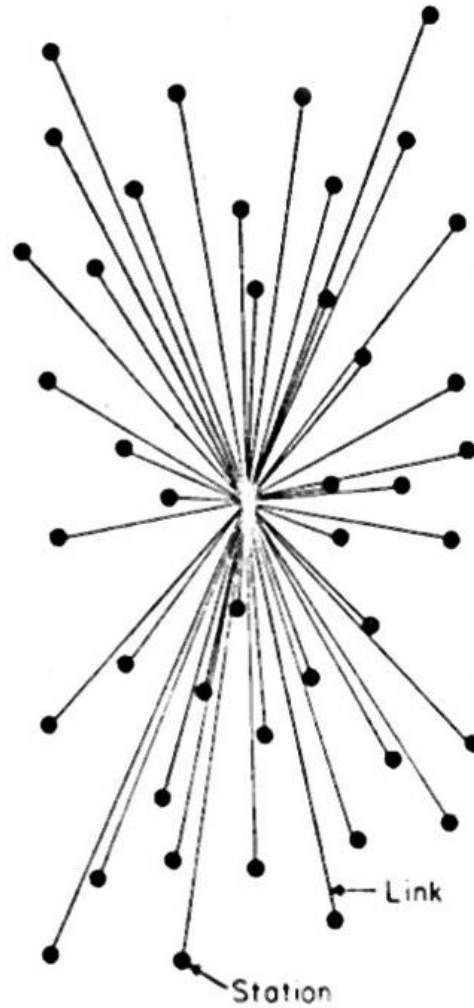
Energy consumption → Network operators

- > Energy grid operators who collectively offer the smart meter data for small capacity energy connections
- > Measuring companies providing smart meter data for large capacity energy connections

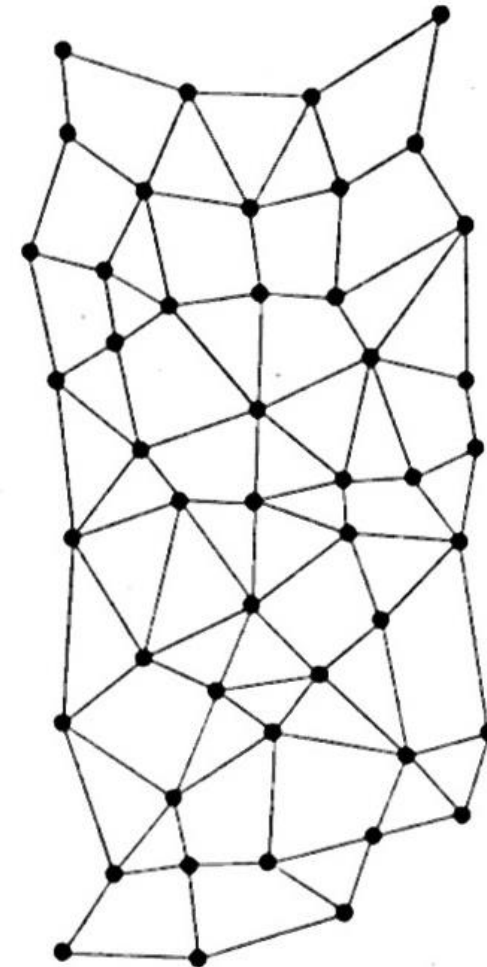




independent



centralized



distributed



2

Digitalspace Built Environment



- > Collaborate to a digital built environment
- > Four ambitions:
 - Shareable and reusable information
 - Accessible information
 - New Features and Advanced Workflows
 - Innovation





Towards a Digitalspace Built Environment (DBE)

- > Create a 'common language' and a joint standardized user experience when exchanging data.
- > Trusted and safe
- > Uniform agreements on the exchange of data
 - Business,
 - Functional,
 - Operational,
 - Legal,
 - Technical agreements



3

Dataspace Measured Energy Consumption in Non-Residential Buildings



Dataspace Measured Energy Consumption in Non-Residential Buildings (DMEC-NRB)

Easier, faster and better insight into the energy consumption in the non-residential buildings, thanks to a dataspace.

Part of the Dutch Climate Agreement (2019) to reduce CO2 emission in 2030.





Public–Private Partnership (DMEC-NRB)

PUBLIC

- > **The Netherlands Enterprise Agency**
 - Coordinator, sponsor, data service provider and consumer
- > **Central Government Real Estate Agency**
 - Entitled party: test user
- > **Kadaster**
 - Data service provider

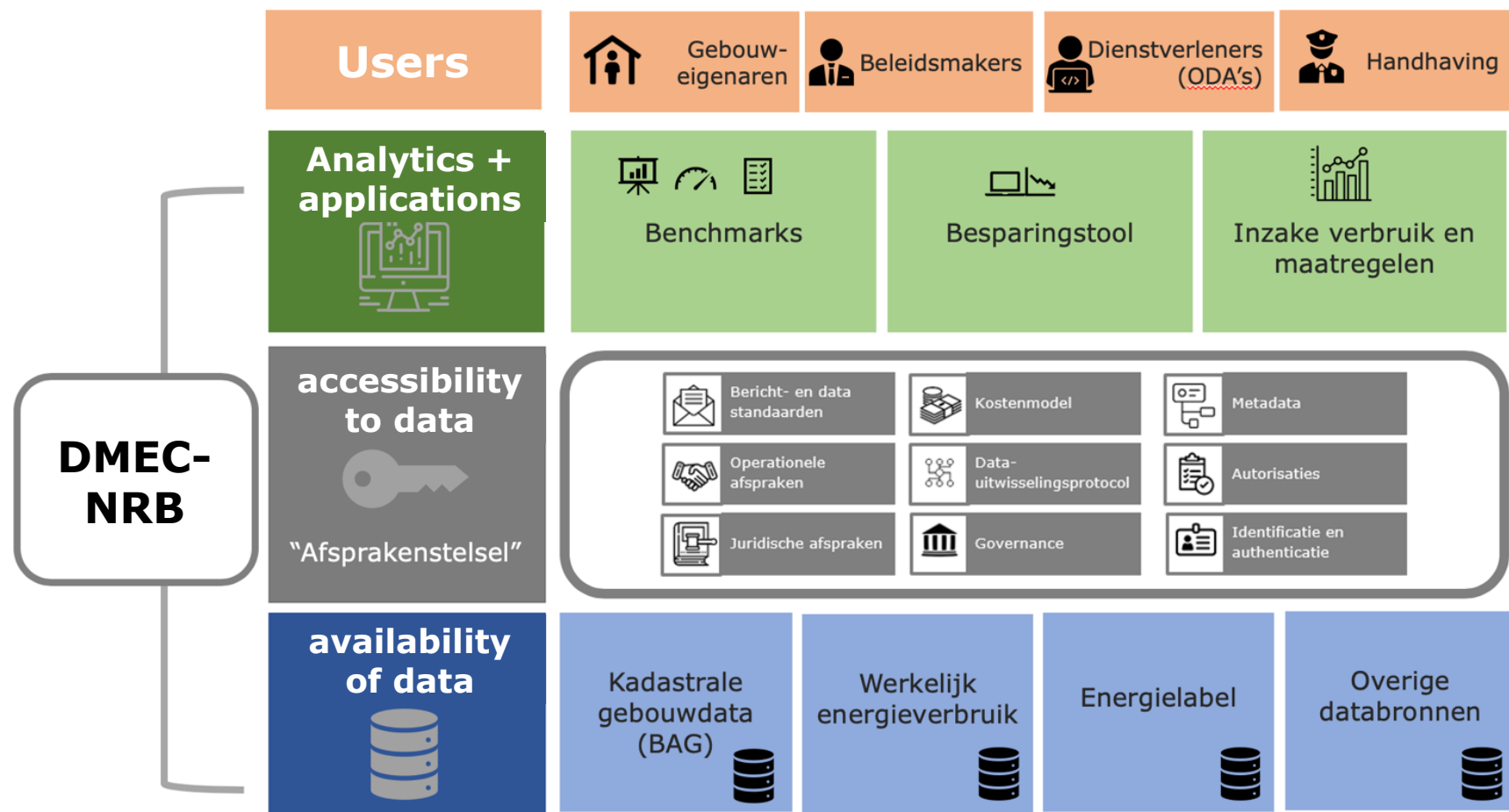
- > **Stichting Platform Duurzame Huisvesting**
 - Initiator and accelerator, coordinator, co-sponsor, testing and show-casing

PRIVATE

- > **Enexis**, representing the energy grid operators
 - Data service provider
- > **Ebatech**, measuring company and ODA for Central Government Real Estate Agency
 - Data service provider



Dataspace Measured Energy Consumption in Non-Residential Buildings (DMEC-NRB)





Benefits (DMEC-NRB)

**WORK
IN PROGRESS**
Live Q4-2022

- › **Building owners**
- › **Enforcement agencies**
- › **Monitoring authorities**
- › **Authorized service providers**



Thank you for your attention

ir. Thomas Wellink (NL)

thomas.wellink@rvo.nl