

**IDE
Chile '26**
conferencia
internacional



Good decisions start with reliable data

Experiences from the Netherlands



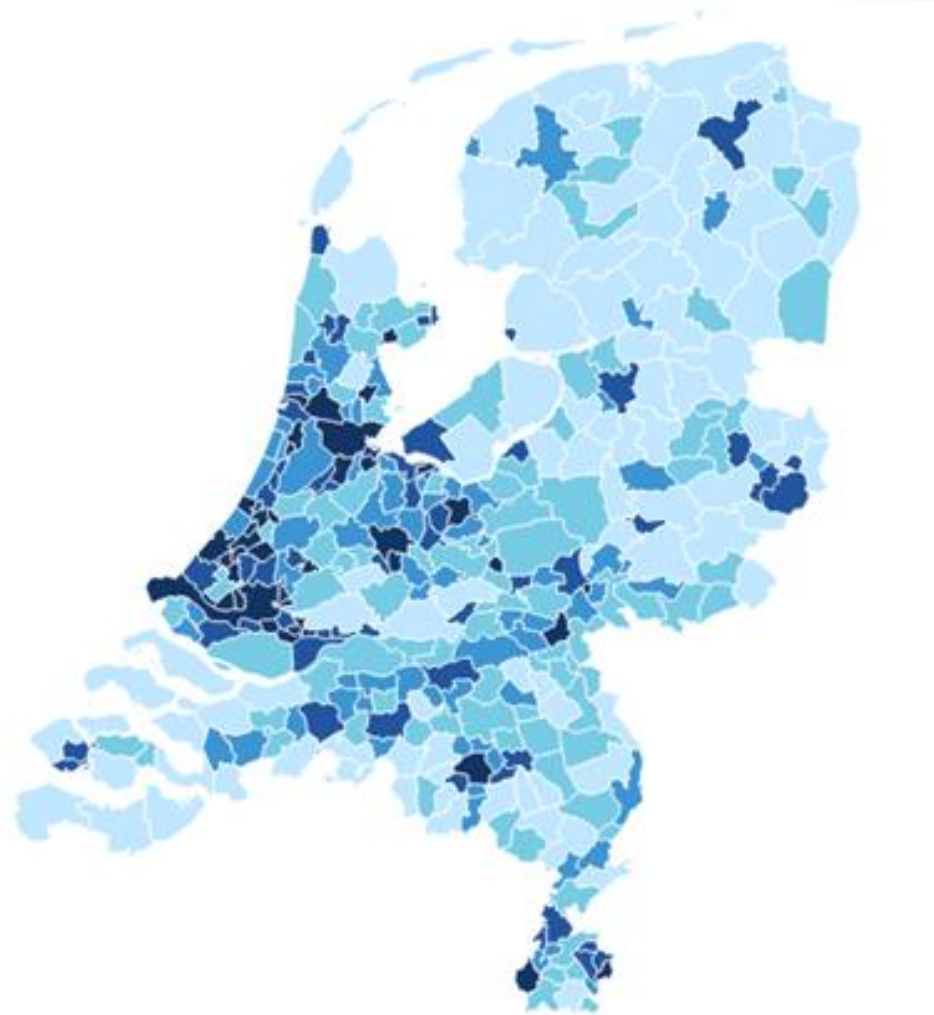
The Netherlands



- +/- 41.000 km²
- 18,2 million inhabitants
- most densely populated EU country
- 2nd exporter of agricultural products worldwide
- 30% below sea level
- 60% vulnerable for severe flooding



Population density in the Netherlands per km²



Densily populated in the west!



Challenges in the spatial domain



How to manage land, without information about the land?





Mission Cadastre, Land Registry and Mapping Agency (Kadaster)

As an independent party, Kadaster provides **certainty** with **transparency** regarding **ownership** and the **use** of property and space. This forms an important basis for the economy and prosperity for everyone. We contribute to that every day. We show what belongs to who and assist in making choices. In the Netherlands and abroad.





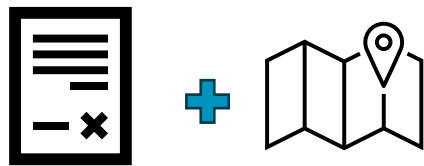
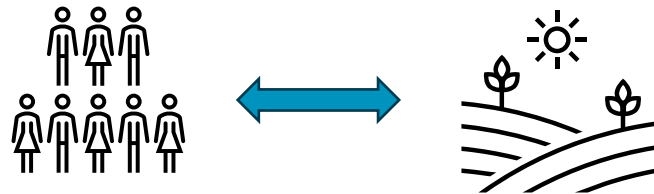
Vision Cadastre, Land Registry and Mapping Agency (Kadaster)

Making **reliable data** through one digital geodata platform **accessible** to **everyone**. That's what we work on every day by connecting and providing certainty. When you **combine** data with that of others, valuable insights are formed into solving social issues. That's how we contribute to a sustainable and livable society. And because geodata does not stop at the border we do that in the Netherlands and abroad.



Cadastral data

People to land relationships





1811 Establishment of the land register

1811 Legislation requiring a land survey. From the start it was compulsory to register all land transactions!

+/- 1840 All land parcels mapped and recorded



One legal framework for all land – public and private

NETHERLANDS

100% COVERAGE

CADASTRAL REGISTRATION

Every parcel. Every property.
Every boundary. Recorded.
100% covered. 100% reliable.



 ENTIRE NETHERLANDS COVERED

 LEGALLY ESTABLISHED

 CURRENT AND ACCESSIBLE DATA

 SERVING CITIZENS, BUSINESSES, AND GOVERNMENT

 EVERY PARCEL REGISTERED

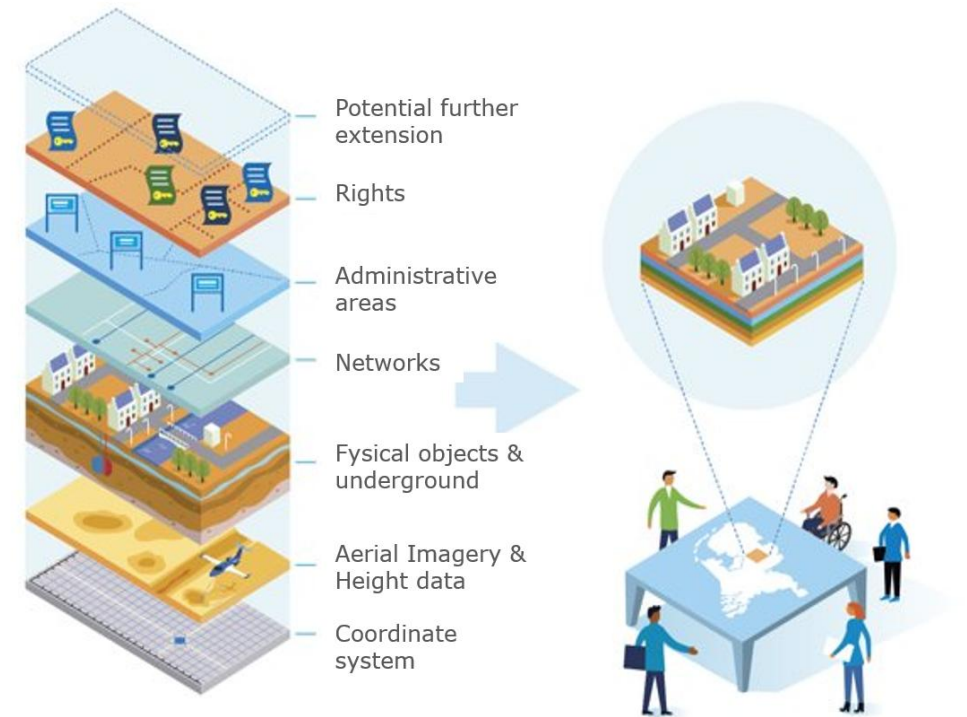
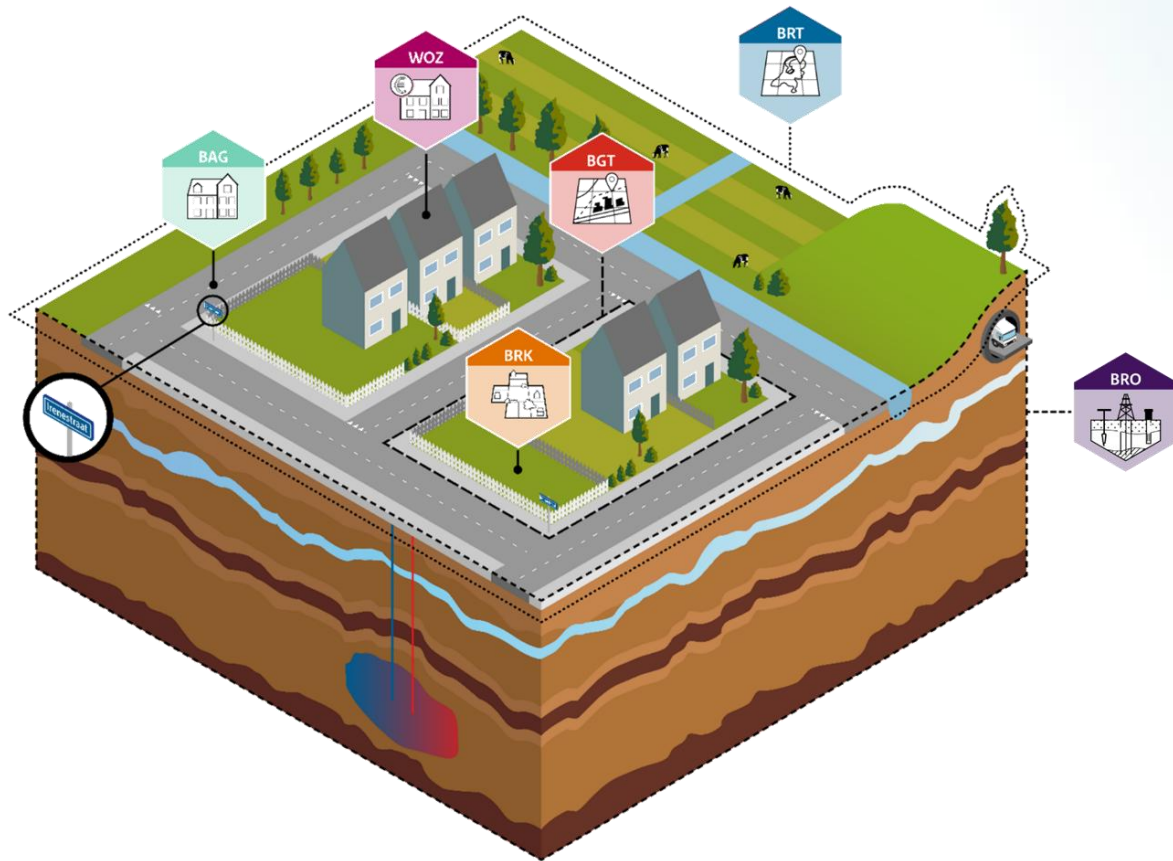
 LEGALLY SECURE

 RELIABLE & UP TO DATE

 100% COVERAGE

 A SOLID FOUNDATION FOR PROPERTY RIGHTS, LEGAL CERTAINTY, AND A TRANSPARENT SOCIETY.

Geo-data



Public services on the map



Services

- PDOK Viewer
- Location Server
- Standard formats: (OGC) webservices, (OGC) API's en ATOM downloadservice



Facts & figures

Most popular datasets
BRT Achtergrondkaart, BGT, BRK and PDOK Aerial photos

214 datasets	642 services	282 INSPIRE services
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Nationaal Geodata Register
26,6 million hits

PDOK datasets
22,2 billion hits

111 PDOK tweets

450 Geoforum topics

Data

3D Buildings	Cycling/walking routes	Railways	Waterways
3D Terrains	Drone no-fly zones	Road networks	Water infrastructure
Addresses & buildings	Energy	Spatial planning	World heritage
Administrative areas	Height	Topography	
Aerial photos	Nature & Environment	Transport networks	
Cadastral parcel	Provincial data	Underground	

New in 2023

- 3D Basic provision via 3D Tiles (OGC API 3D Geovolumes)
- 3D Viewer on PDOK.nl
- GEO base registers in OGC API Tiles and Styles
- 10 years of PDOK: congress 'The Great Geodata Experience'
- New datasets CBS: Squares 500 x 500 m and 1 x 1 km LAEA
- New datasets HWH: Waterboard boundaries IMSO + Waterzoning and Waterworks IMWA

Availability

99,74 % uptime

7 interruptions (> 30 min)

Metadata

NGR Nationaal Georegister

National Geodata Register is the guide for geodata in the Netherlands

INSPIRE

European distribution of INSPIRE datasets

Availability of **99,74 %** 'INSPIRE conform'



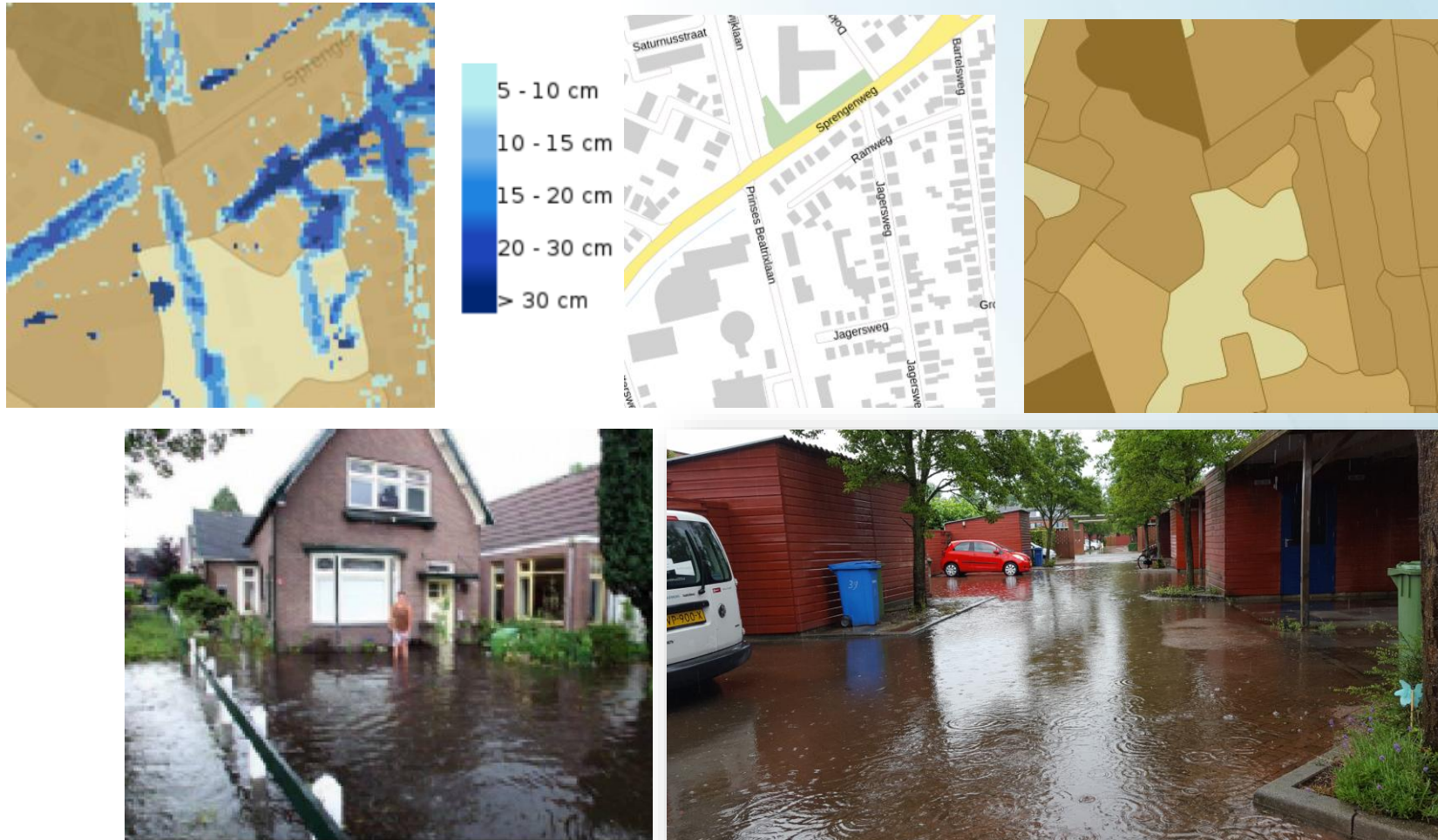
2403_PDOK Factsheet

Example: energy transition

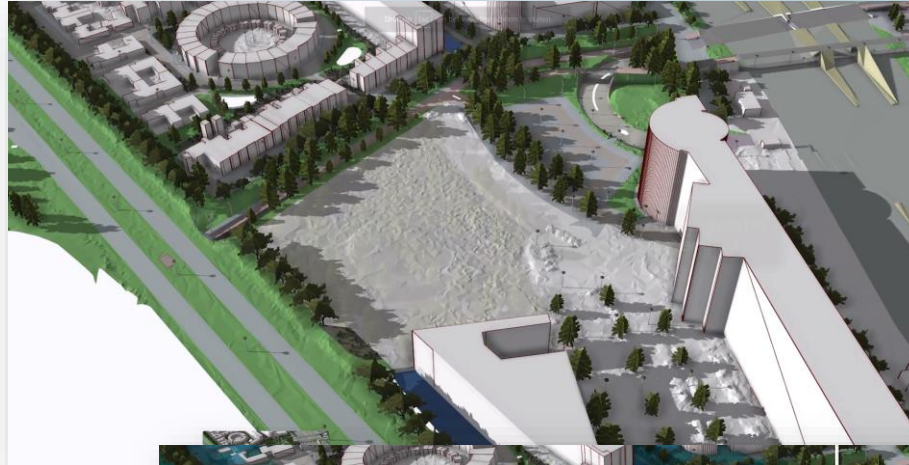
Energy transition requires 50.000 additional transformer stations:
choosing the best place for new transformer substations



Example: climate change in urban areas



Digital twins





AI for Modern Cadastre Chances and Challenges

Rules for artificial intelligence

1. Don't use AI

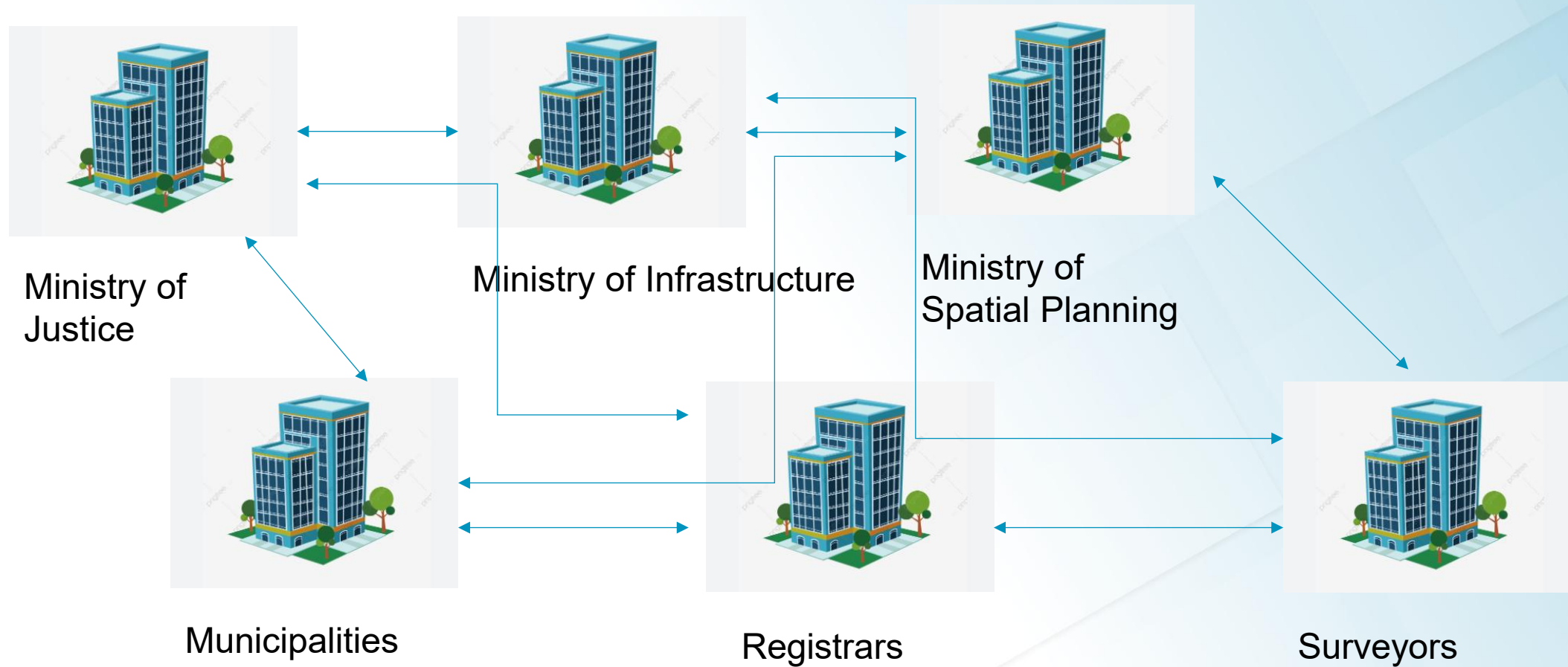
Rules for artificial intelligence

1. Don't use AI
2. Still, don't use AI

Rules for artificial intelligence

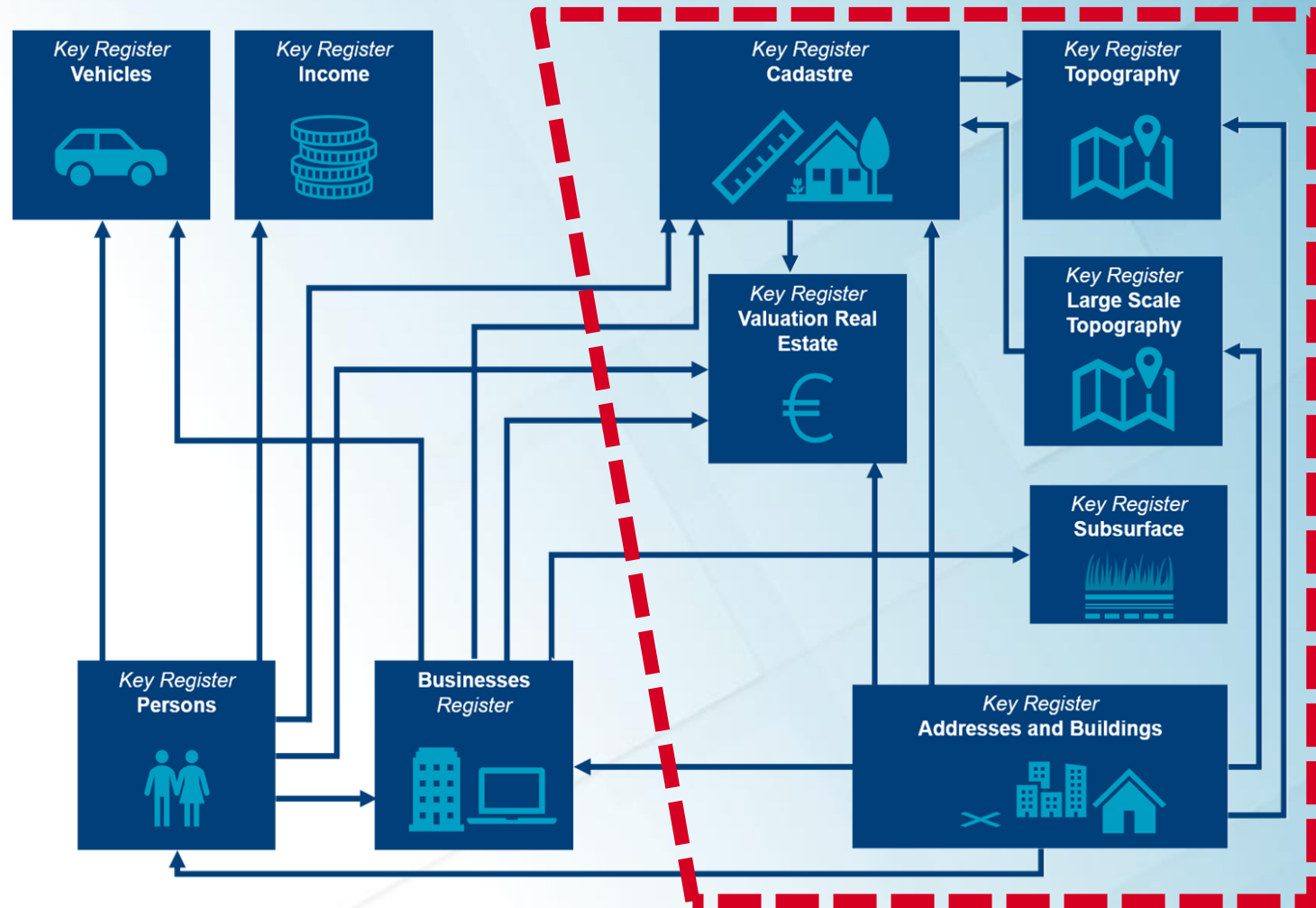
1. Don't use AI
2. Still, don't use AI
3. Unless..... you have lots and lots of data

Data producers/ data users

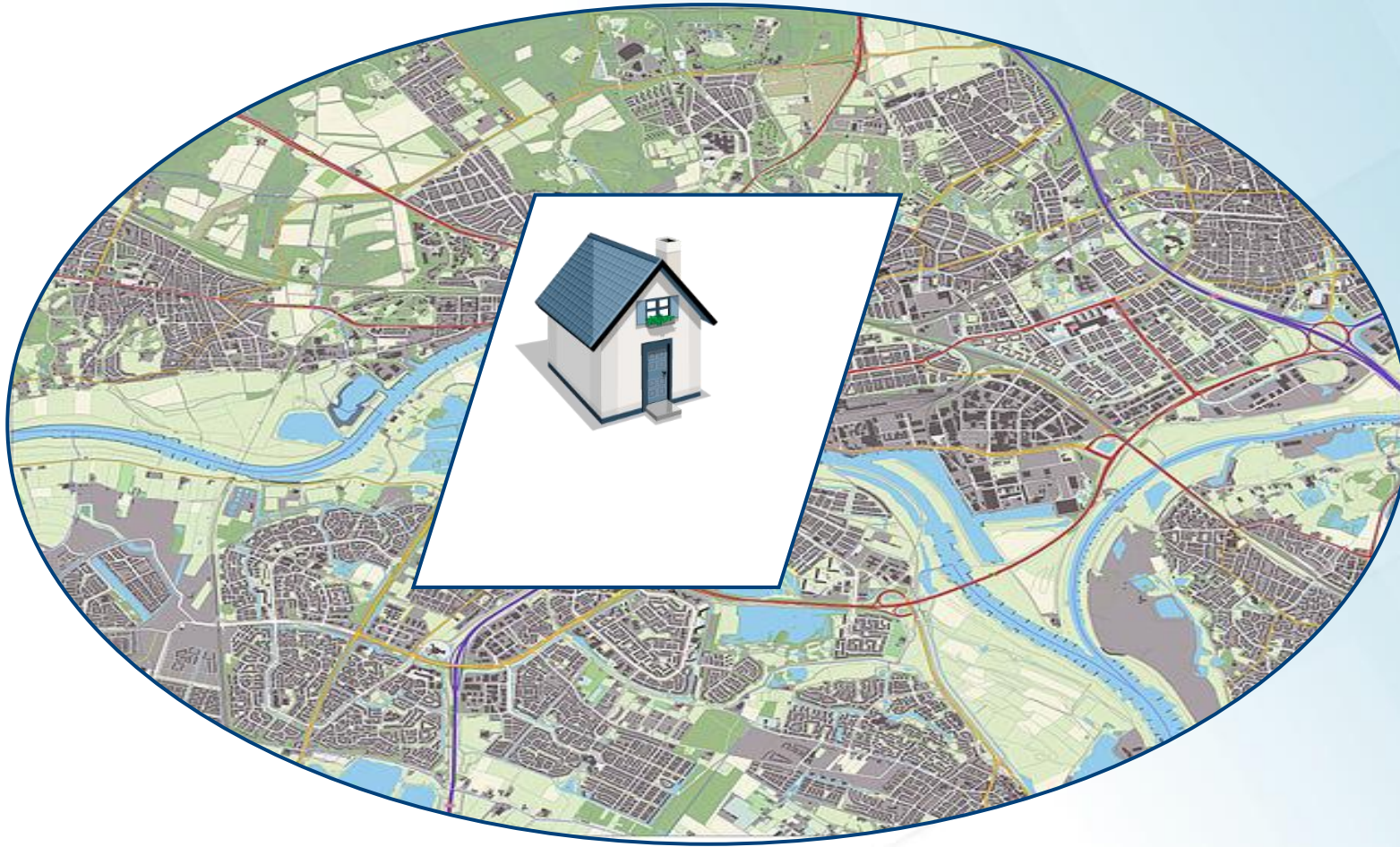


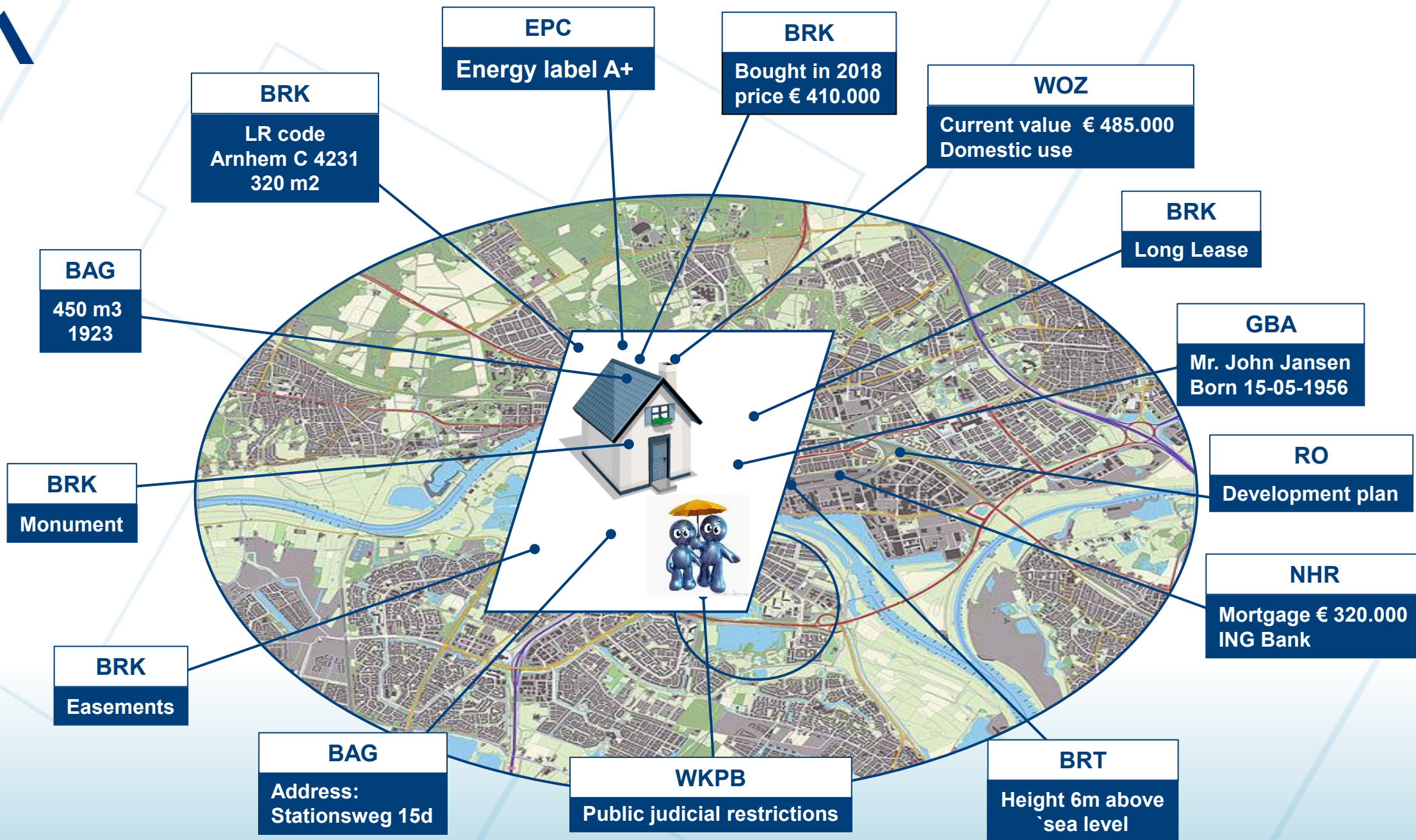
System of key registries

- **Guiding principle: collect once, use many times!**
- Single registration, authentic data
- Citizens do not have to supply data over and over again
- Quality of data and source of data is known
- Properly organised and cost effective (efficient)



Kadaster as information hub in eGovernment







Points for attention

- Agreements:
 - Standardisation
- Cooperation!

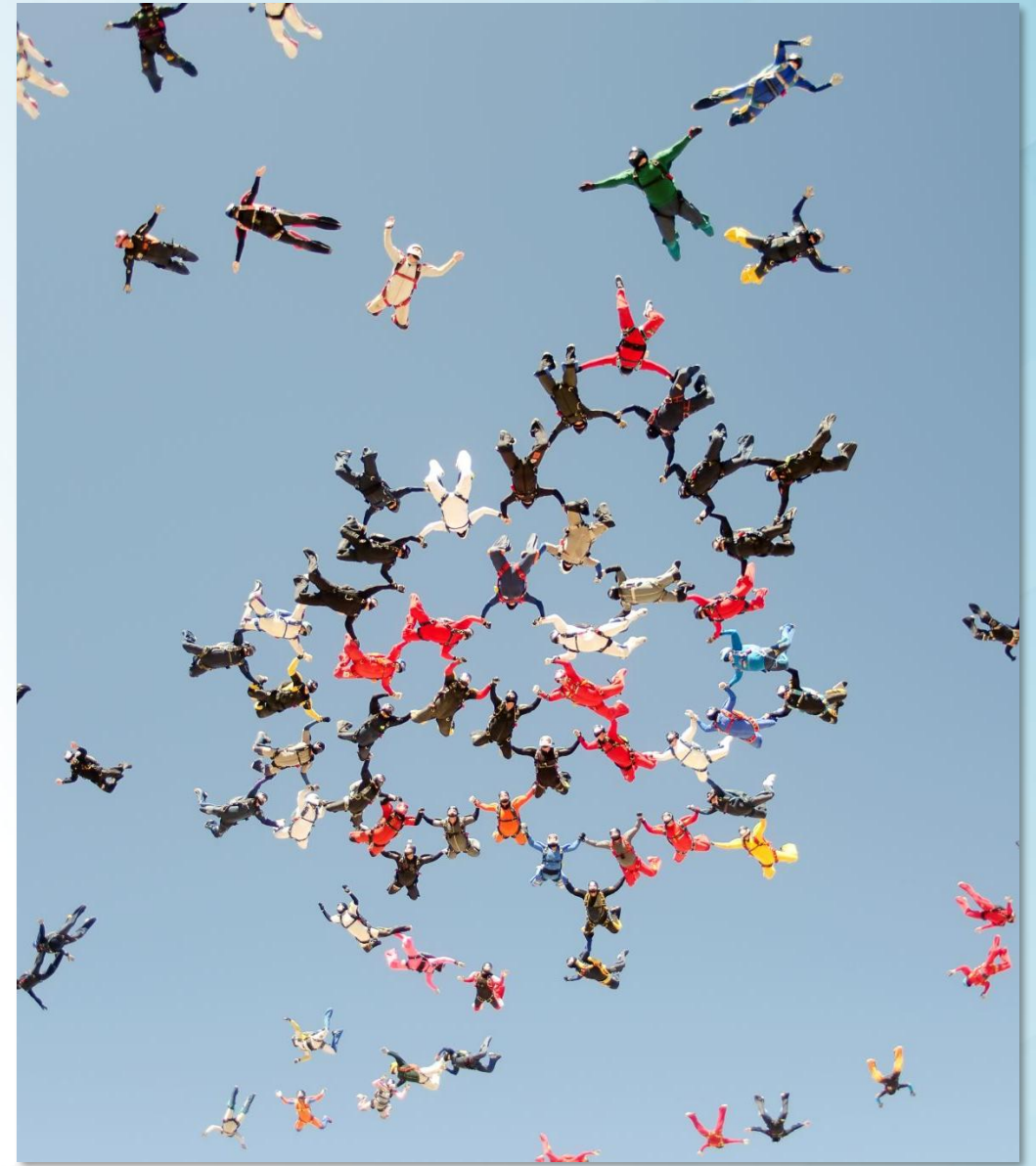


Principles

- Efficiency: collect once, use many
 - Collect data at the source
 - Keep information at the source

Principles

- Efficiency: collect once, use many
 - Collect data at the source
 - Keep information at the source
- **Trust**







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Muchas gracias

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