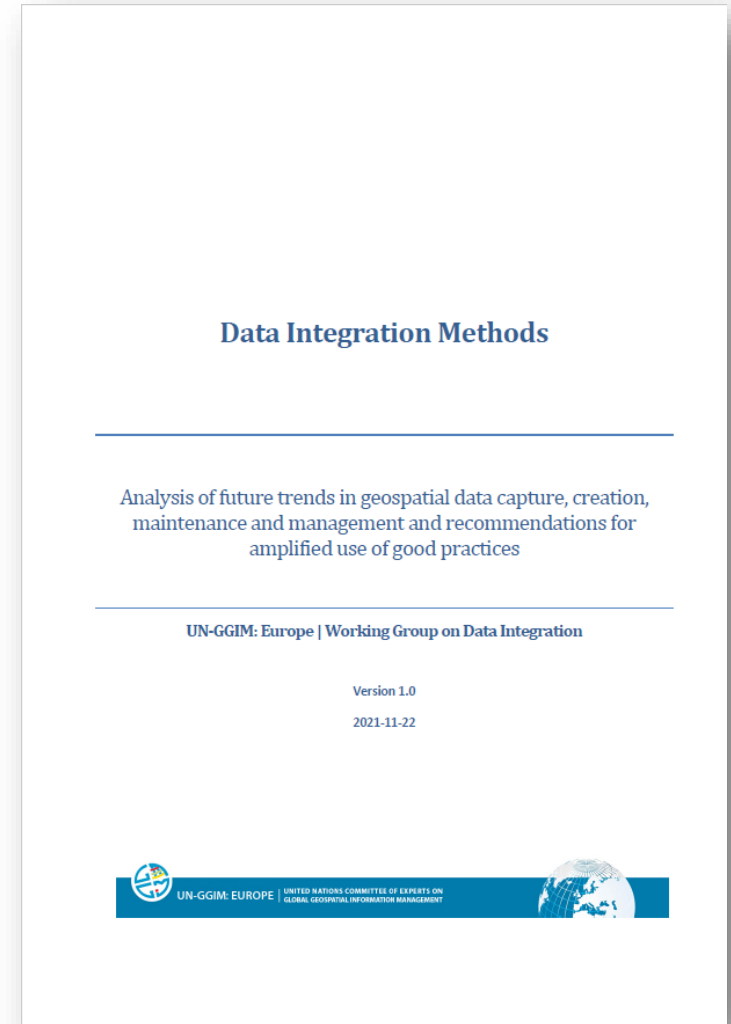# Agenda

Introduction

Methods

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1. Welcome
2. Intention of the webinar
3. **Why** is data integration meaningful? A fictive perspective from a Director General
4. **What** tools and requirements enable data integration? A fictive perspective from a Data Provider
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Intention of the webinar

Present and discuss the outcome of the Deliverable on Data Integration Methods in a Role play

WHY WHAT HOW

Data Integration Methods

Analysis of future trends in geospatial data capture, creation, maintenance and management and recommendations for amplified use of good practices

UN-GGIM: Europe | Working Group on Data Integration

Version 1.0
2021-11-22

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Why did we work on this document?

Geospatial ⟷ Statistics

Organizational issues

Different data structures

Legal constraints

Technical encodings

Overcome the bridge between Geospatial and Statistics

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What does that mean for my agency?

Data spaces

European Green Deal

Strategy

https://www.business2community.com/content-marketing/5-key-elements-successful-content-marketing-strategy-0947654

Do we have the requirements in mind?

What can we do better in the development towards more efficient data integration methods?

- Look at the situation on data integration in Europe mainly between geospatial and statistical data?

- Analyse the relevant aspects via national examples?

- Illuminate the barriers from a technical point of view?

- Provide a global and cross-domain perspective?

Is this document a call for political action in Europe?

Am I provided with clear recommendations to improve or change my agency's processes?

Join at
slido.com
#EG-WS22-05

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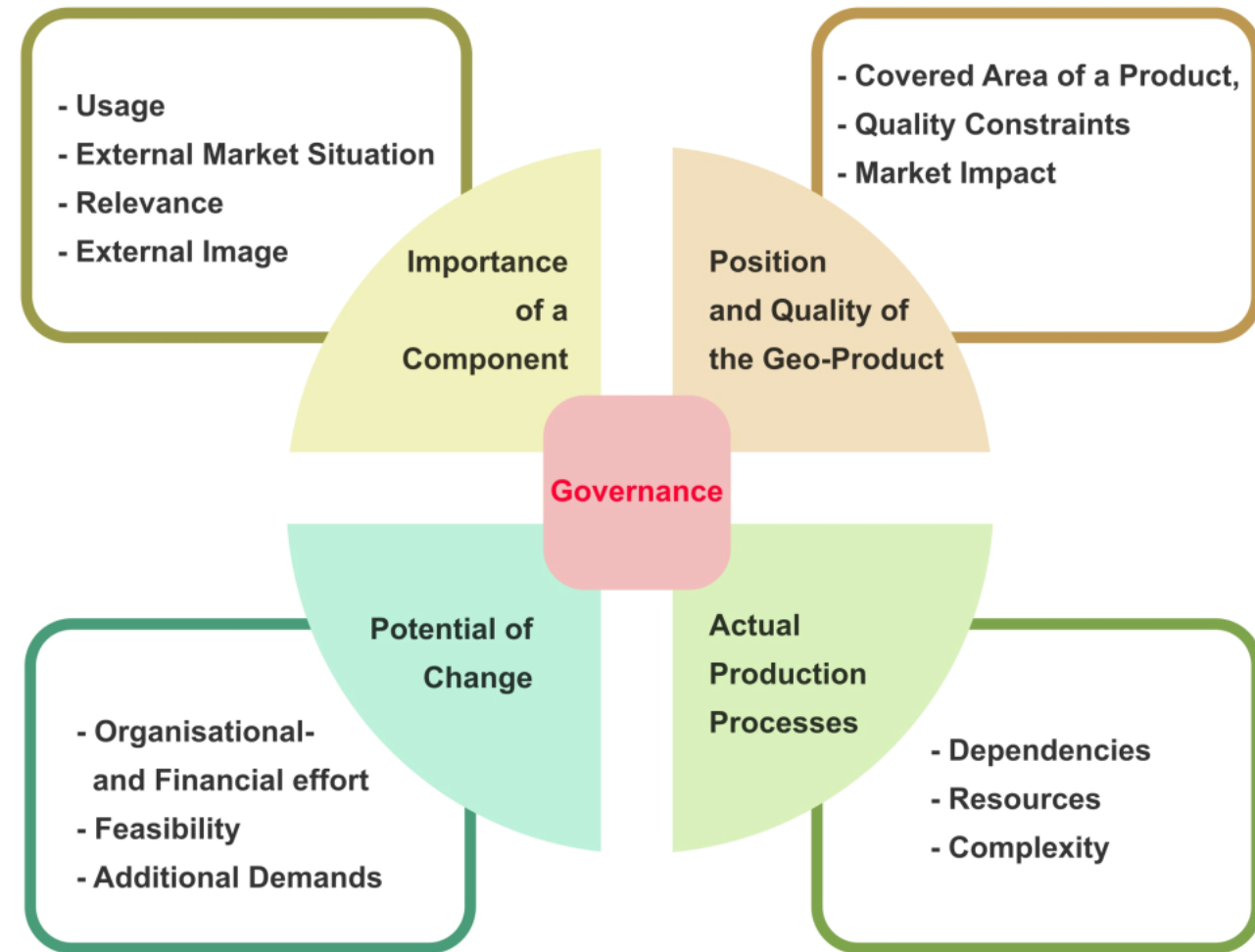
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What do we need to make it (collaboration) happen?

- Established production processes

- „external" influences and new perspectives

- Mutual stewardship (reliable x-domain data and services)

- Infrastructures/changes that transform our customers

- Usage
- External Market Situation
- Relevance
- External Image

Importance of a Component

- Covered Area of a Product,
- Quality Constraints
- Market Impact

Position and Quality of the Geo-Product

Governance

Potential of Change

- Organisational- and Financial effort
- Feasibility
- Additional Demands

Actual Production Processes

- Dependencies
- Resources
- Complexity

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What are future adjustments in my technological understanding?

- Pool of tools
- Pool of methods
- Need of collaboration
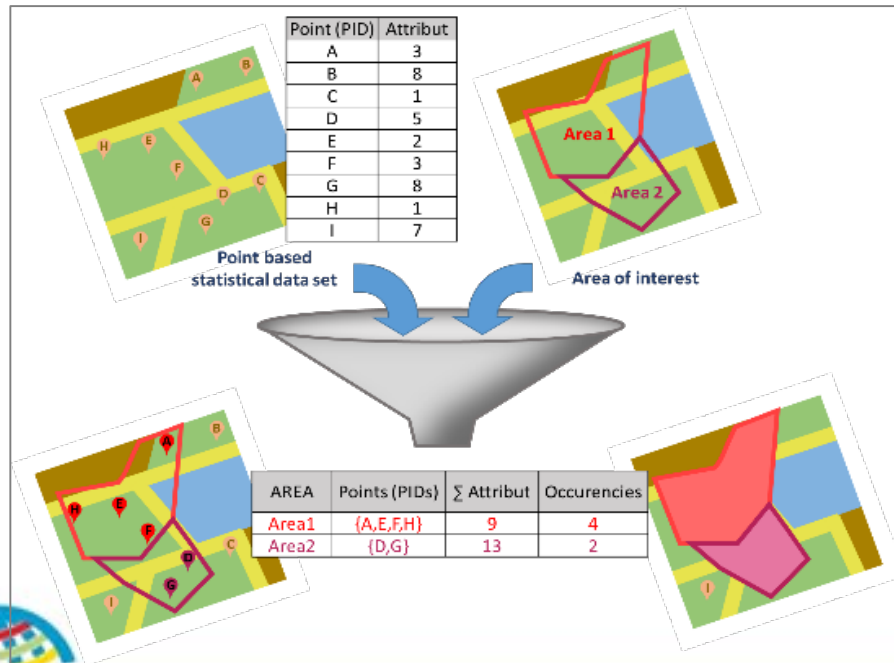
How can we establish mutual understanding in a formalized way?

The way we CONNECT the content...

The way we IDENTIFY the content...

The way we STORE...
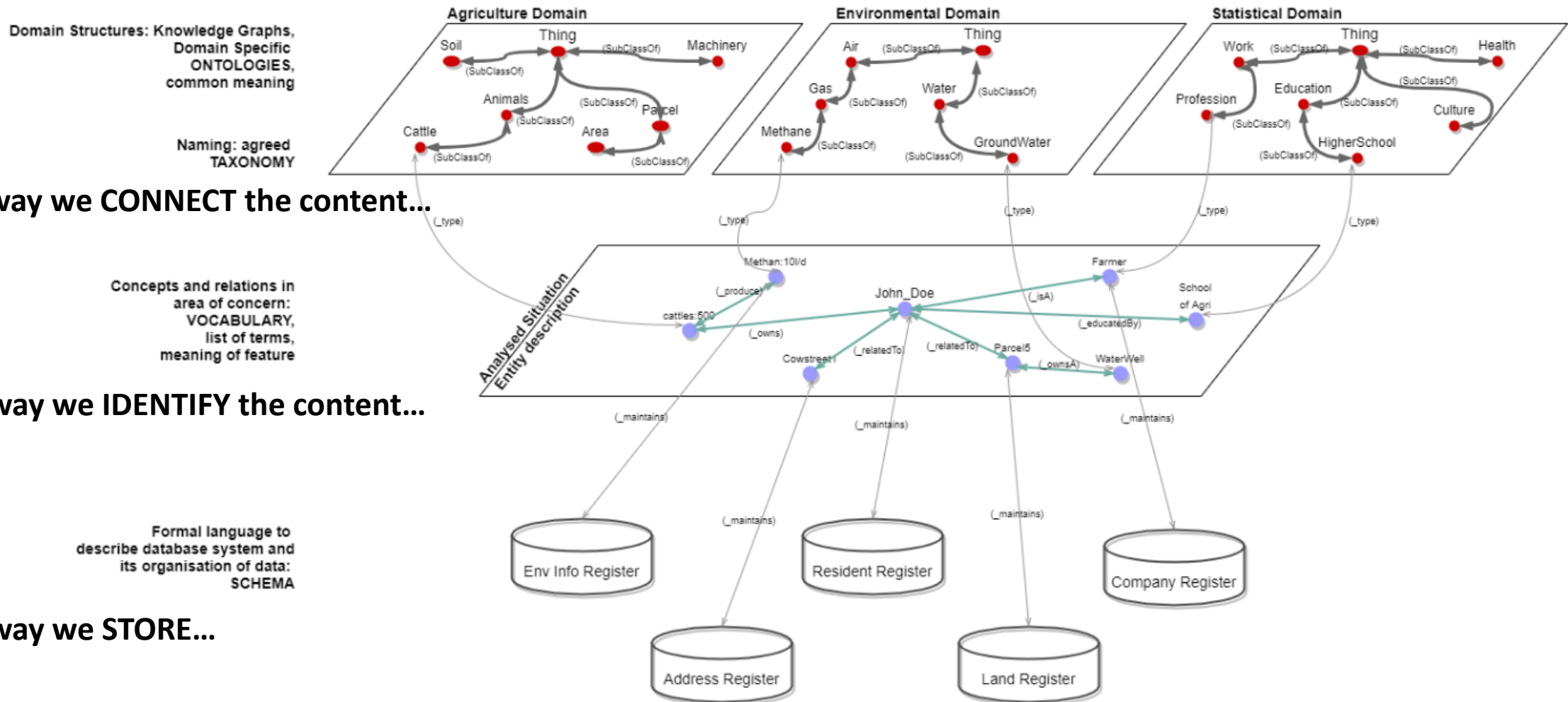
What is the key information that is always used in data integration? ..and the relevance of time?

- Persistent: historicized ID
- MD, datasets and features
- Existing key data spaces and their persitent identifiers
- (e.g. geonames.org)

sr	Serbian	Клостернојбург
be	Belarusian	Клостэрнойбург
ka	Georgian	კლოსტერნოიბურგი
zh	Chinese	克洛斯特新堡

The language code is refering to the ISO-639-2 and ISO-639-3 cod

- *en* (english)
- *fr* (french)
- ...

Accepted pseudo language codes :

- *post* (postal codes)
- *icao, iata, faac, tcid* (airport codes)
- *abbr* (abbreviation)
- *link* (link to website)
- *phon* (phonetics)
- *piny* (pinyin)
- *wkdt* (wikidataid)
- *unlc* (UNLOCODE)

📍 Feature   ⚏ Hierarchy   ☰ History   🏷 Tags   ☷ Alternate na

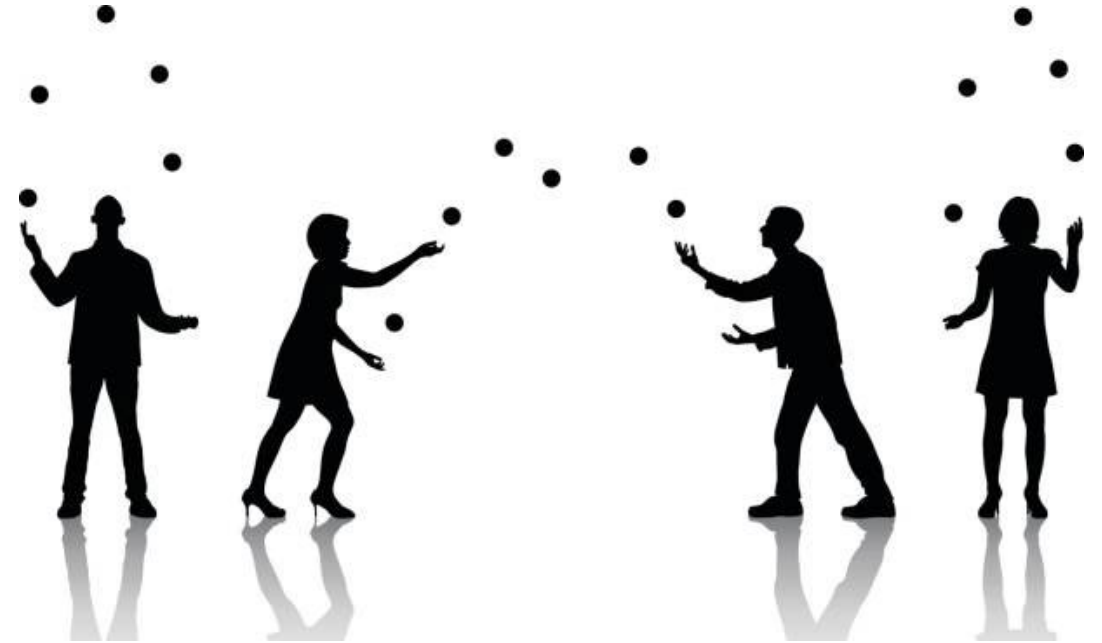| #	time	user	comment
9	2019-09-05 14:55:32.165	geonames	update name :update name :be Горад Клостэрнойбург>Клостэрнойбург
8	2018-09-23 23:20:07.171	etsy	update name : Klosterneuburg (p)
7	2018-07-28 13:15:21.012	statistik austria	pop 24'843 > 15'614 (37% diff)
6	2017-06-16 20:55:50.805	statistik austria	adm2:324>321 adm3:32408>32144
5	2011-07-31 16:40:03.517	geonames	adm2:null>324 adm3:null>32408 featureCode:PPL>PPLA3
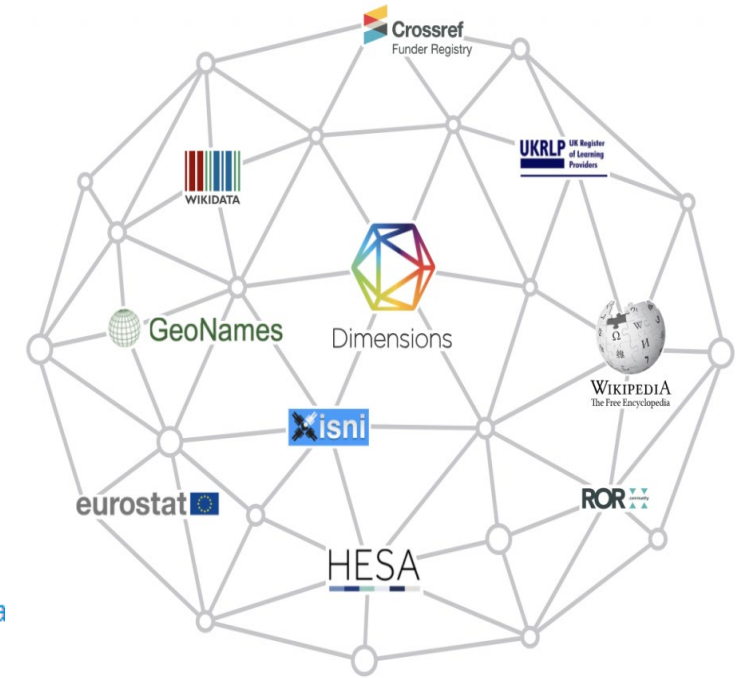
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How to setup the suitable technical rules and specifications in matter of data integration process?

common data specifications & rules

- semantics
- PIDs & temporal dimension
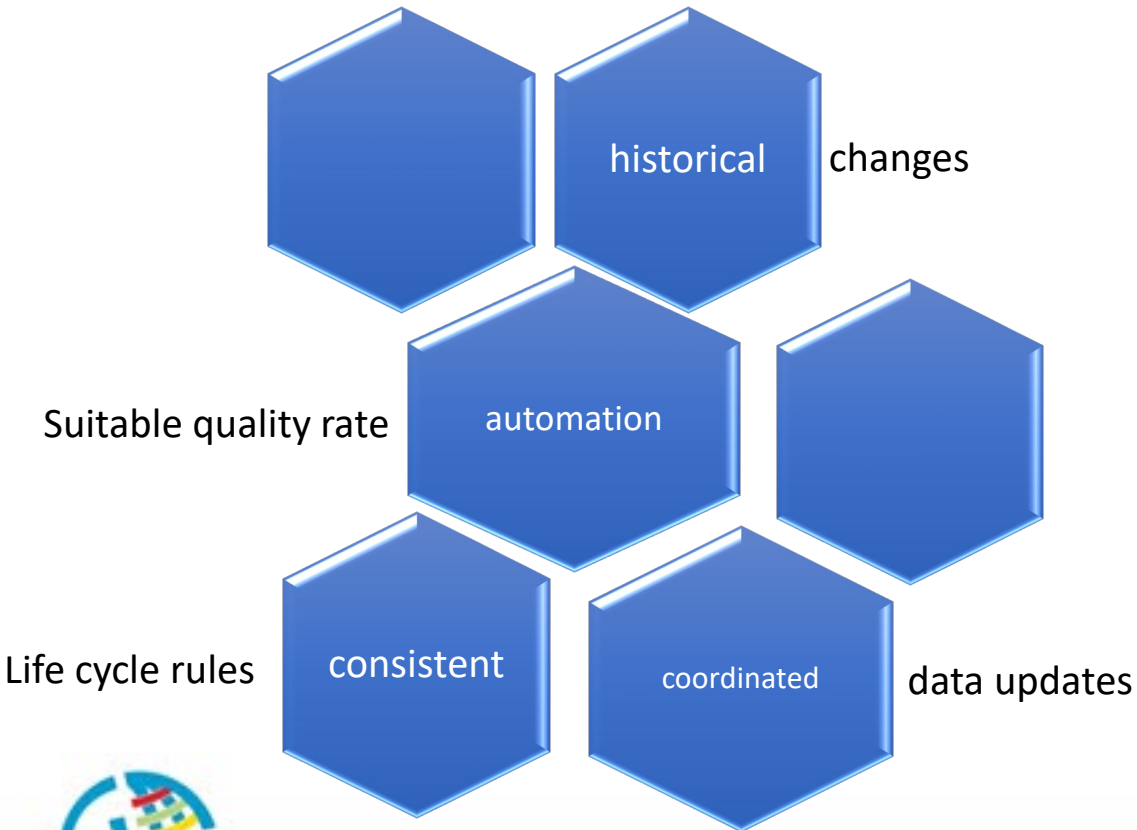- Geometries
- Data models
- Data content & collection

How to automatize the process?

Fill the conditions   **&**   Let's what the machine is able to do! Based on existing standards

historical changes

Suitable quality rate

automation

Life cycle rules
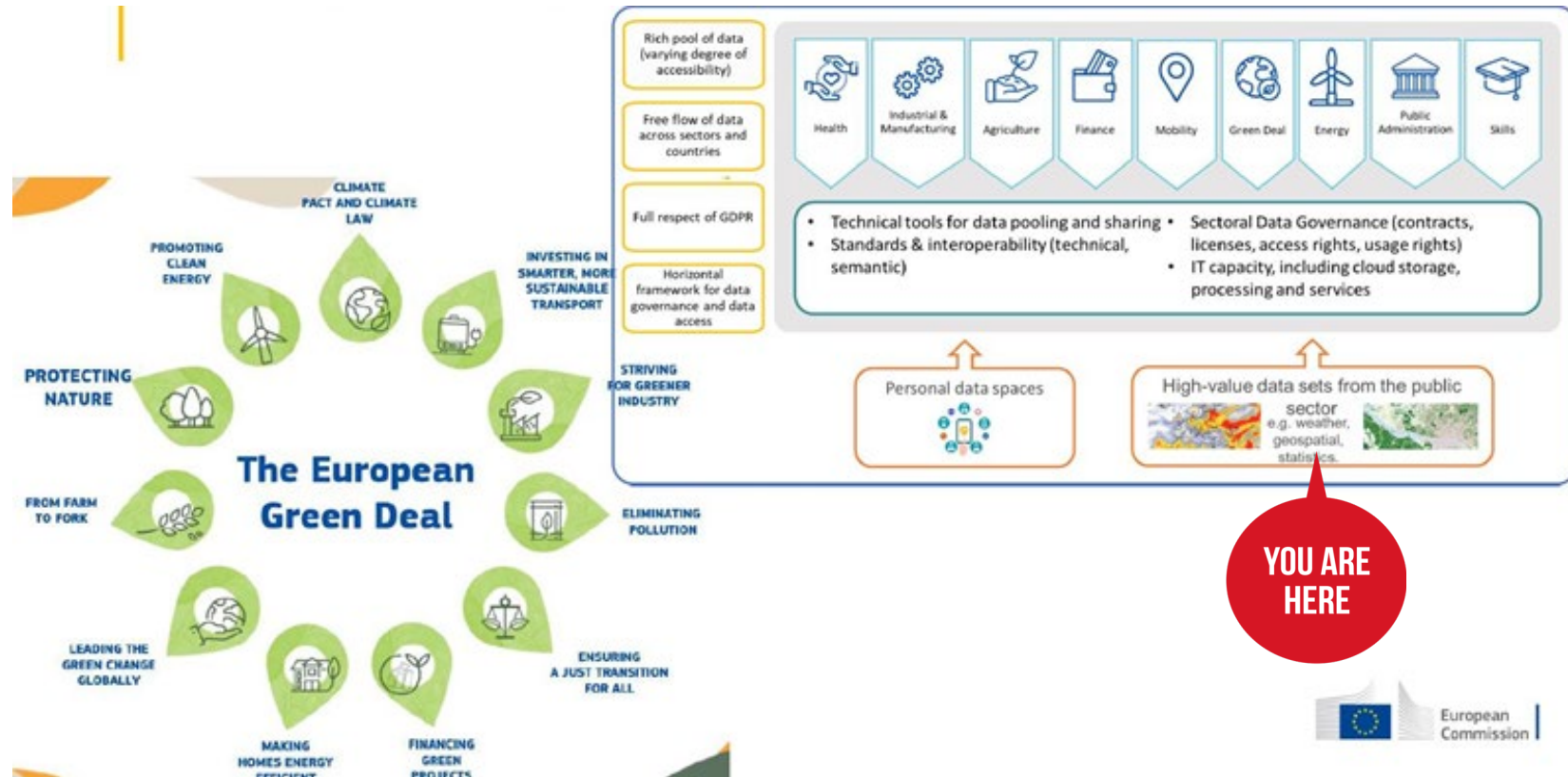
consistent

coordinated data updates

How to cooperate?

- integration process let to …
- coordination to improve the maintenance of..
- at the level of …
- kind of agreement

How to integrate new (European) Data Spaces?

- modernizing the SDIs towards GKIs

- investing in matter of capacity and resources

- our datasets are linkable

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