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Consortium of European Social Science Data Archives
European Research Infrastructure Consortium

DDI is not enough

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Ron Dekker - Director CESSDA



EUROPEAN DDI USER CONFERENCE



Provision



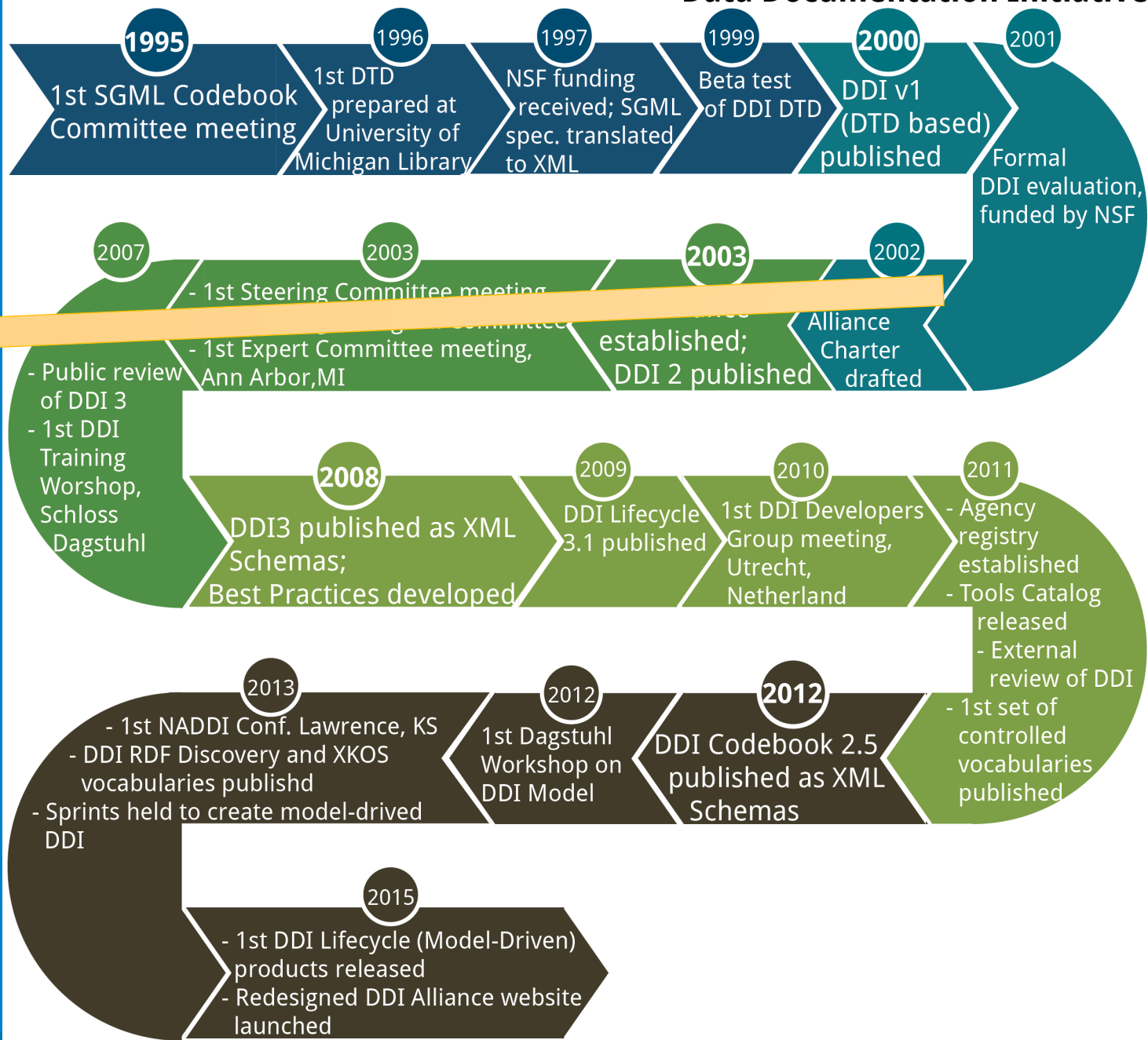
OPEN SCIENCE

Research Council
Ministry
European Commission
CESSDA



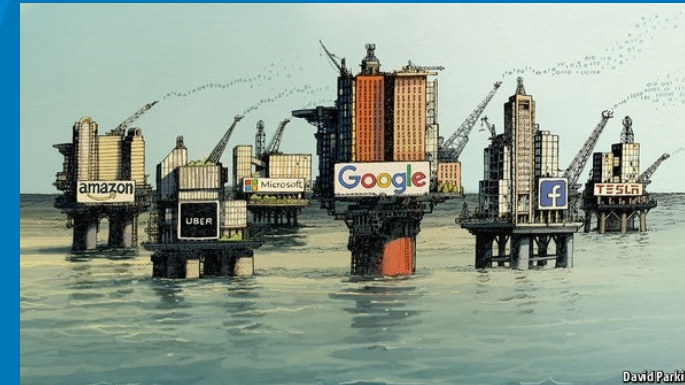
Milestones

Data Documentation Initiative



Trends

- Science will open up
 - Data-driven
 - Reproducibility
 - Speed up exchange of knowledge
- Information Society
 - Data is the new oil
 - Re-usable
- Platforms
 - Value-creating interactions
 - Demand-oriented



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Why Open Science?

Europe must embrace the
transformative power of open science



(Lamy, p. 8)

allowing for a
faster circulation of increasing amounts of knowledge,
and
seize the potential of open innovation

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EC Open Science Agenda

1. Reward systems
2. Altmetrics
3. New models for publishing
4. FAIR open data
5. Open Science Cloud
6. Research integrity
7. Citizen Science
8. Open education and skills

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July 2017

December 2016

Starting Up

Working

Oct. 16 & Working

WP SwafS 2018-20

WP SwafS 2018-20

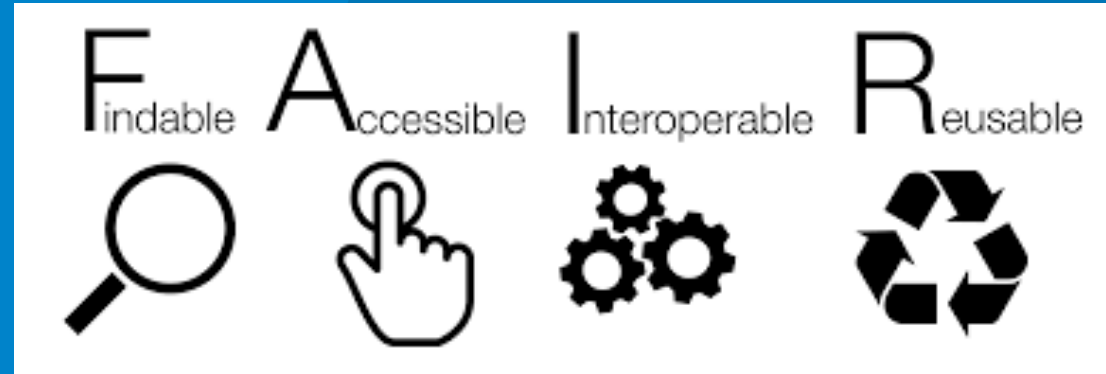
July 2017

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FAIR Data

Importance of

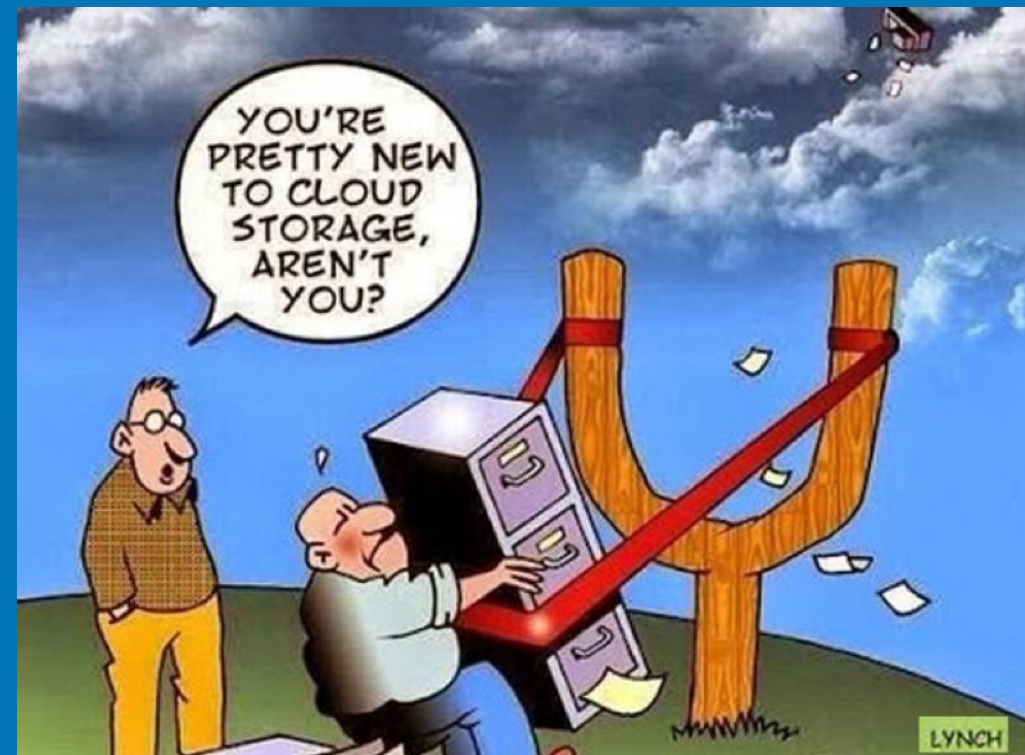
- Metadata
- Standards
- Easy Access
- Safe & Secure Environment
- Incentives for Sharing



European Open Science Cloud

Virtual environment for all European researchers to store, manage, analyse and re-use data

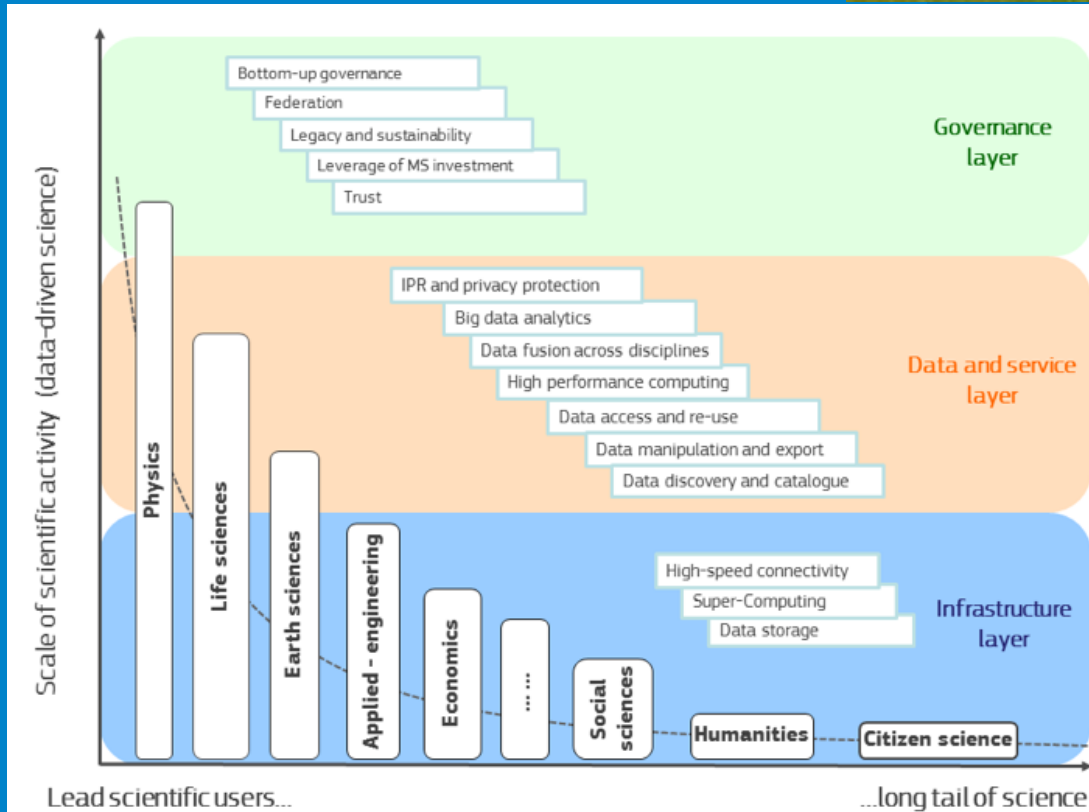
Federation of existing and emerging data infrastructures



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Risks

- Risk of remaining supply/tech-driven
- Lack of viable business models
- Complex

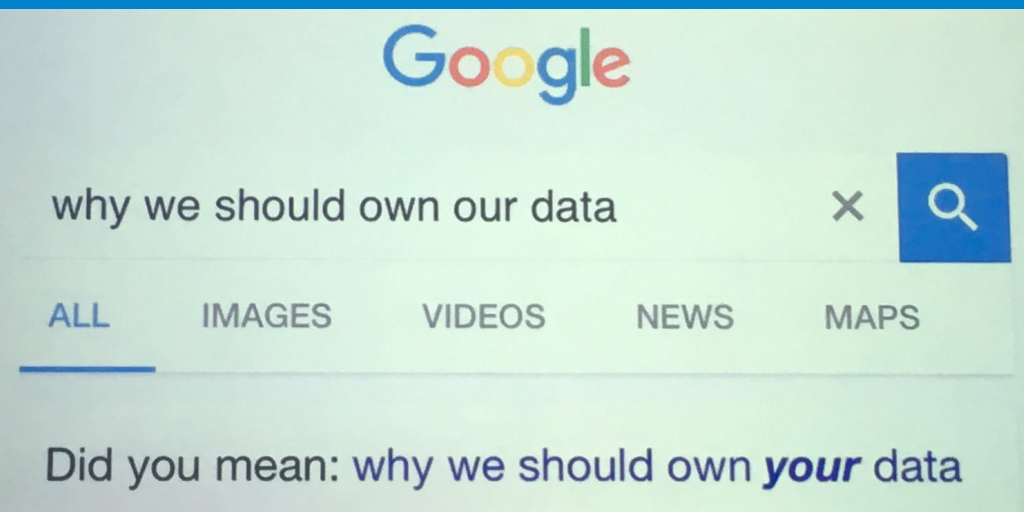
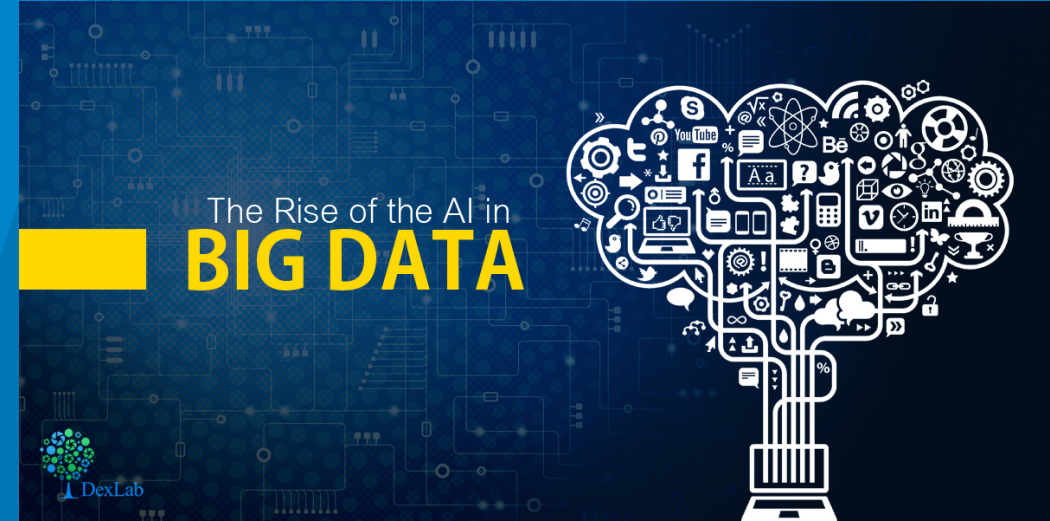


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Information Society

Importance of Data

- Data become infrastructure themselves
- Big Data
- Merging Big Data and AI is the next step
 - Machines will perform better than humans



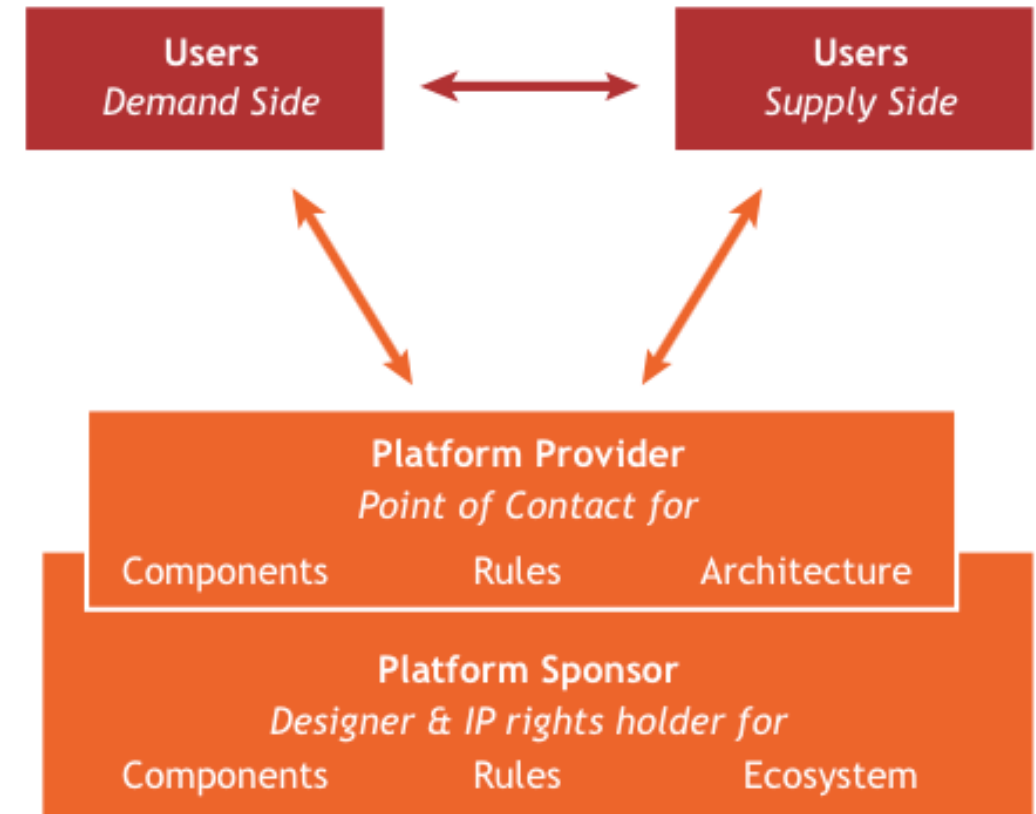
Source: Twitter

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Platforms

- Researchers and Institutions as data producers
- Researchers, Professionals, Citizens as data users
- Service Providers to offer services and facilitate interactions
- Research Infrastructure(s) to set up platforms

Ecosystem network market

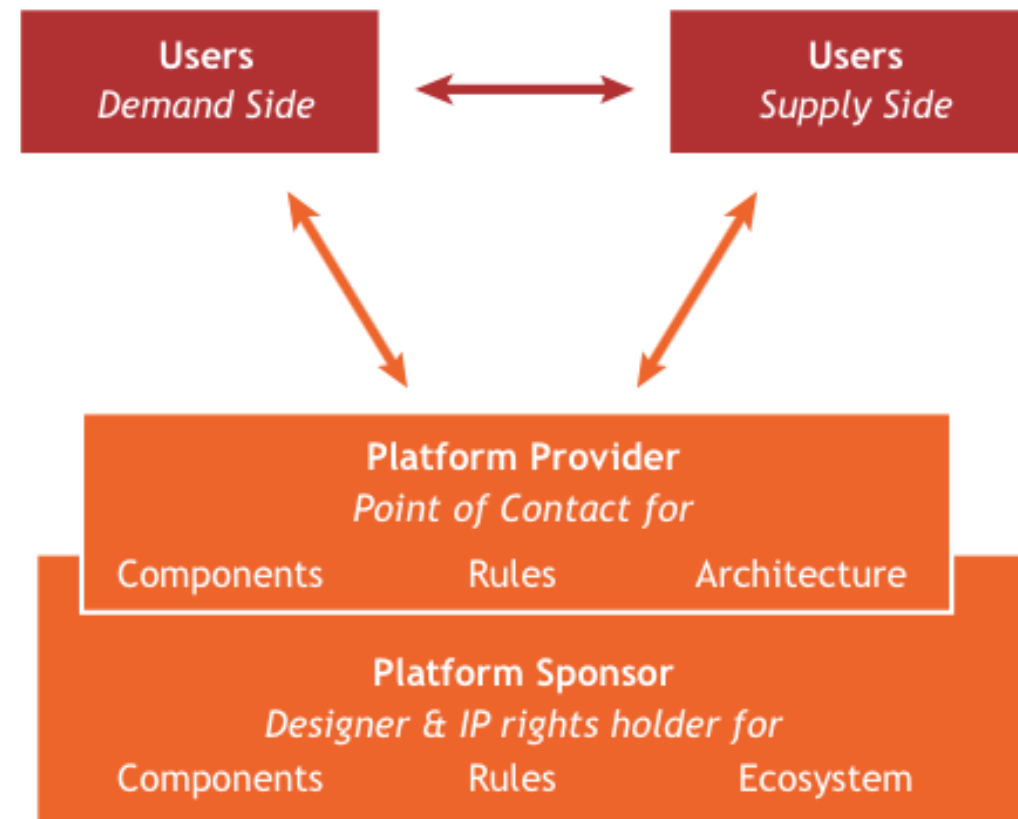


Platform Strategy

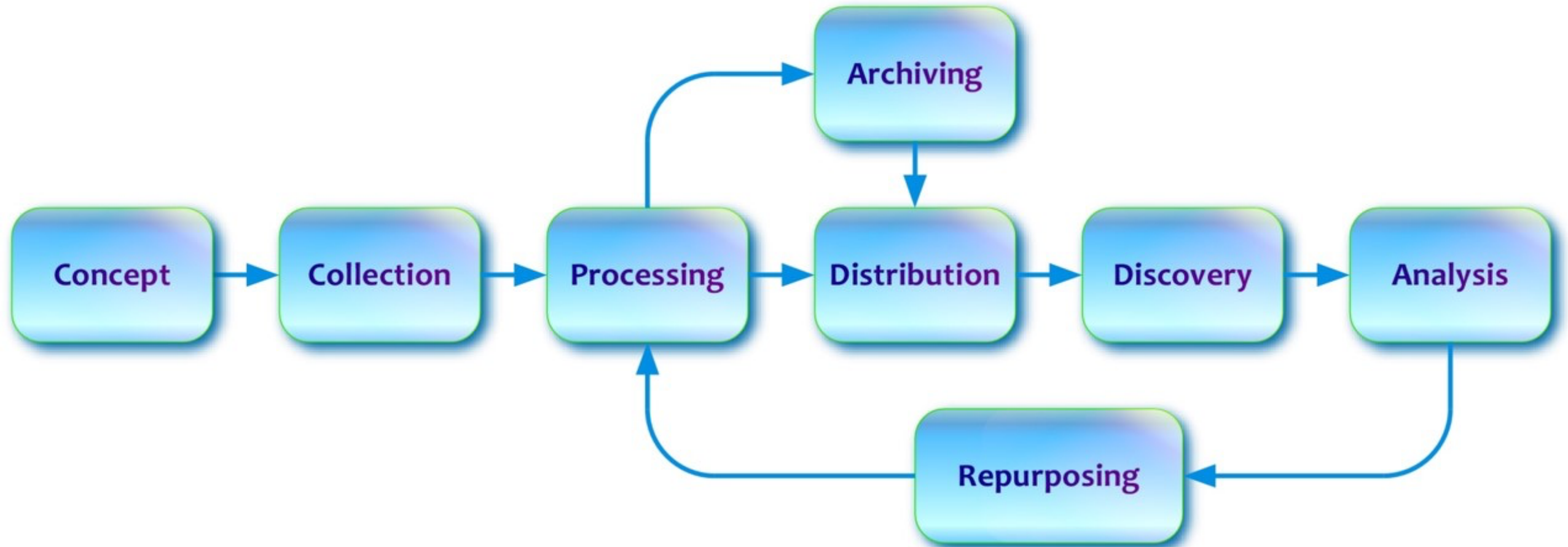
- *it's not about assets*
- *... but realising matches*
- *and selling 'no' is not an option*

The focus shifts to **interactions** - exchanges of value between producers and users

Ecosystem network market

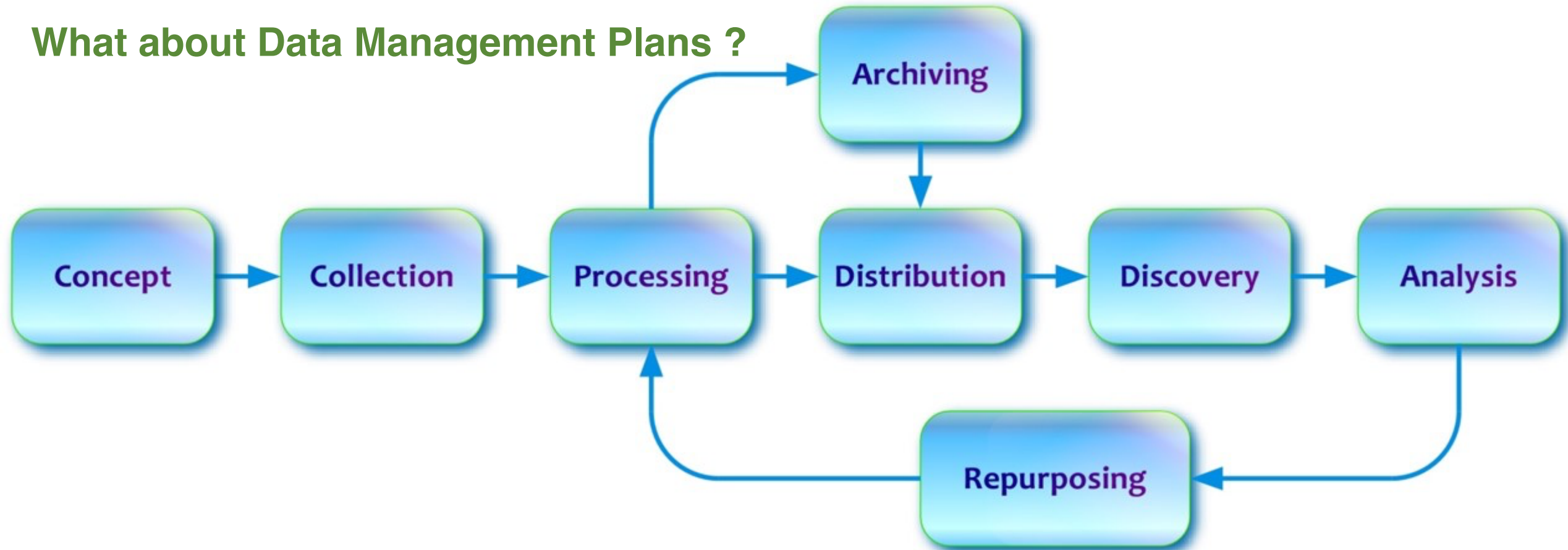


Data Life Cycle



Data Life Cycle

What about Data Management Plans ?



Data Management Plan

A Data Management Plan provides information on:

- The data the research will generate
- How to ensure its curation, preservation and sustainability
- What parts of that data will be open (and how)

- BEFORE the project
 - What data, audience
 - How to document, what metadata
 - Quality assurance, Responsibility
 - Budget
- DURING
 - Storage & backup
 - Data management
- AT THE END
 - Selection
 - Procedures
- DEPOSITING
 - Sharing
 - Ethics & Compliance
 - Deposit at a Trusted Data Repository

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Need for Standards
on Metadata, DMP templates,
development of tools, etc

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Data Clusters

1 NO
POVERTY



2 ZERO
HUNGER



3 GOOD HEALTH
AND WELL-BEING



6 CLEAN WATER
AND SANITATION



8 DECENT WORK AND
ECONOMIC GROWTH



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



10 REDUCED
INEQUALITIES



4 QUALITY
EDUCATION



5 GENDER
EQUALITY



7 AFFORDABLE AND
CLEAN ENERGY



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



14 LIFE
BELOW WATER



15 LIFE
ON LAND



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



17 PARTNERSHIPS
FOR THE GOALS



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Linked Open Data

Sustainable Development Goals

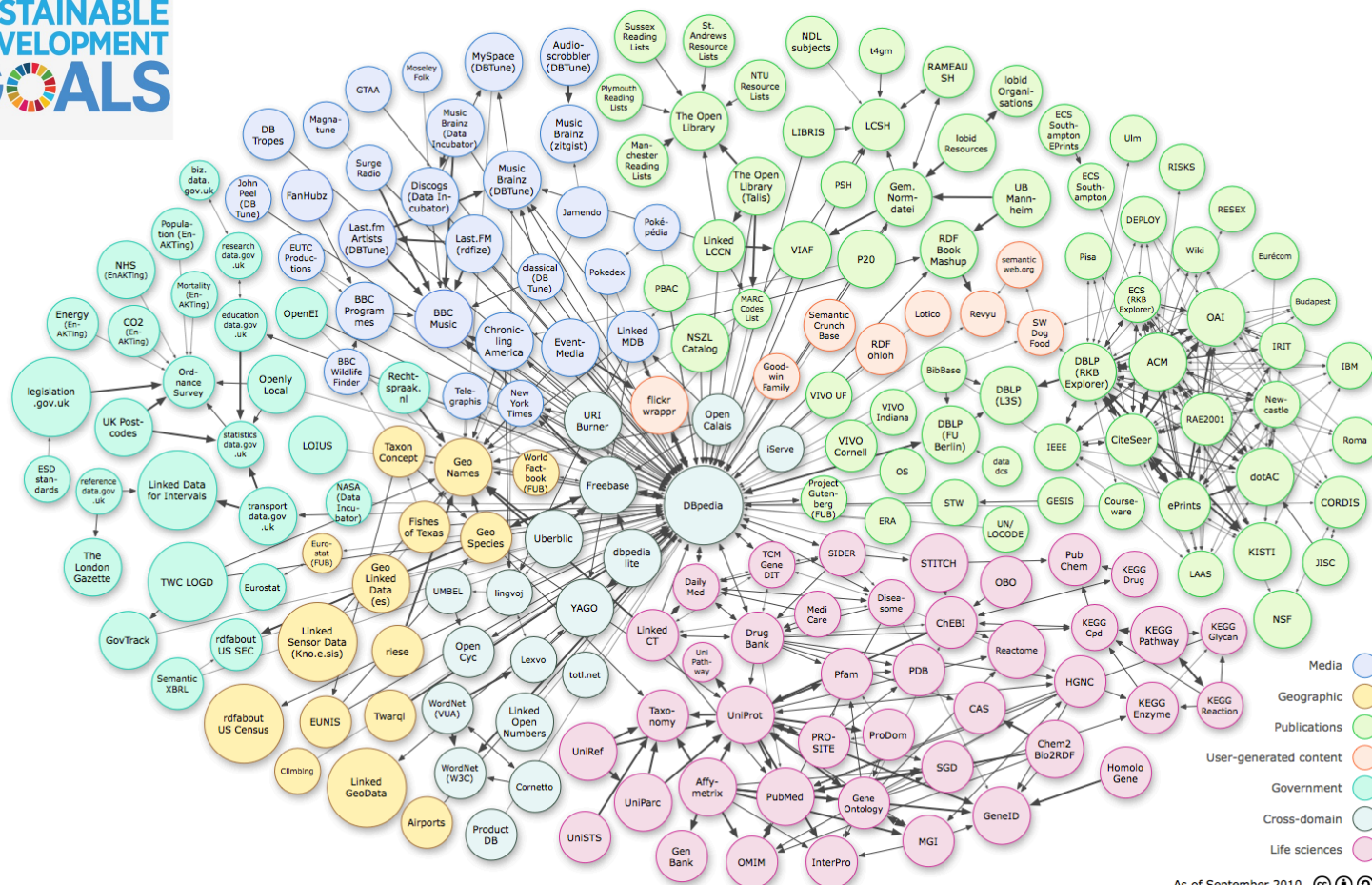


Elections

Migration

Resilient Societies

...



CESSDA

*The mission of CESSDA is
to provide a distributed and sustainable research infrastructure
and
to facilitate teaching and learning in the social sciences*

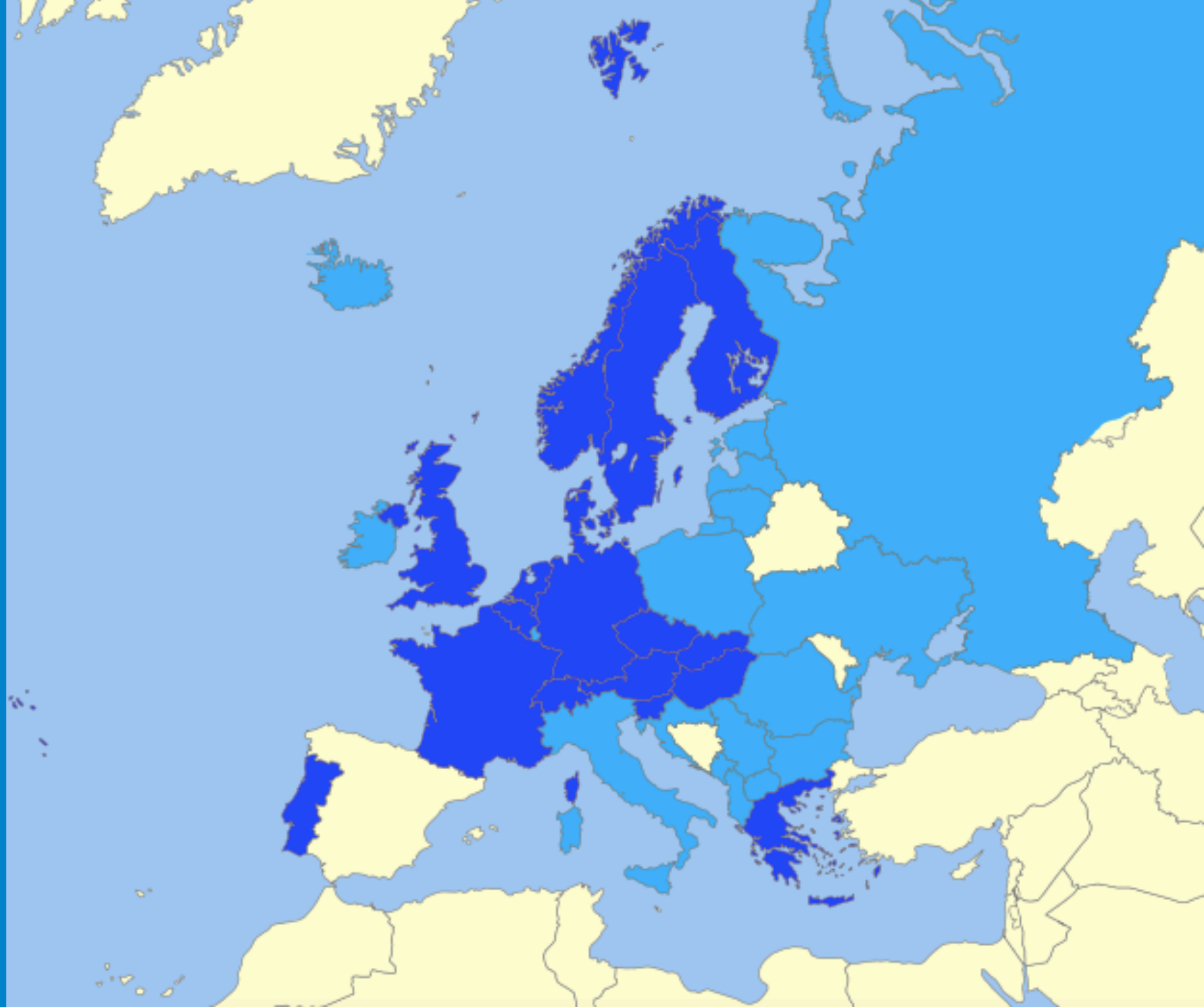
- Pan-European research infrastructure
 - Each country assigns a national service provider
 - Certification of data service organisations
- Professional training
 - Data archivists and
 - Scientific community



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MEMBERS

- » Austria
- » Belgium
- » Czech Republic
- » Denmark
- » Finland
- » France
- » Germany
- » Greece
- » Hungary
- » Netherlands
- » Norway
- » Portugal
- » Slovakia
- » Slovenia
- » Sweden
- » Switzerland (Obs.)
- » UK



TRUST



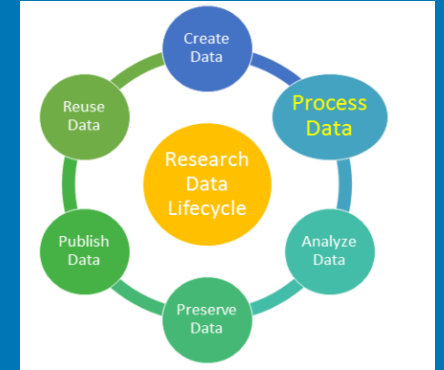
TRAINING



TECHNOLOGY



TOOLS



Key Issue: Standards

- Technology Backbone
- CESSDA Catalogue
 - Catalogue for National & Eurostat data
- Tools
 - European Question Bank
 - Multilingual Thesaurus
 - ...

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DDI is key



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... but not enough

- Complicated
- Not in use everywhere
 - Data Archives
 - Research Institutions
- New needs
 - Data Clusters, Linking Data
 - Data Management Protocols
- Solutions ?
 - More Tools
 - More Users
 - ...

(1181 Elements, 473 Complex Elements,
68 Simple Types, 71 Element Groups,
7 Attributes, and 70 Attribute Groups)
Researchers hardly aware of Open Science,
lack of incentives to share data

Connecting and combining data
Researchers as producers

Thank you

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