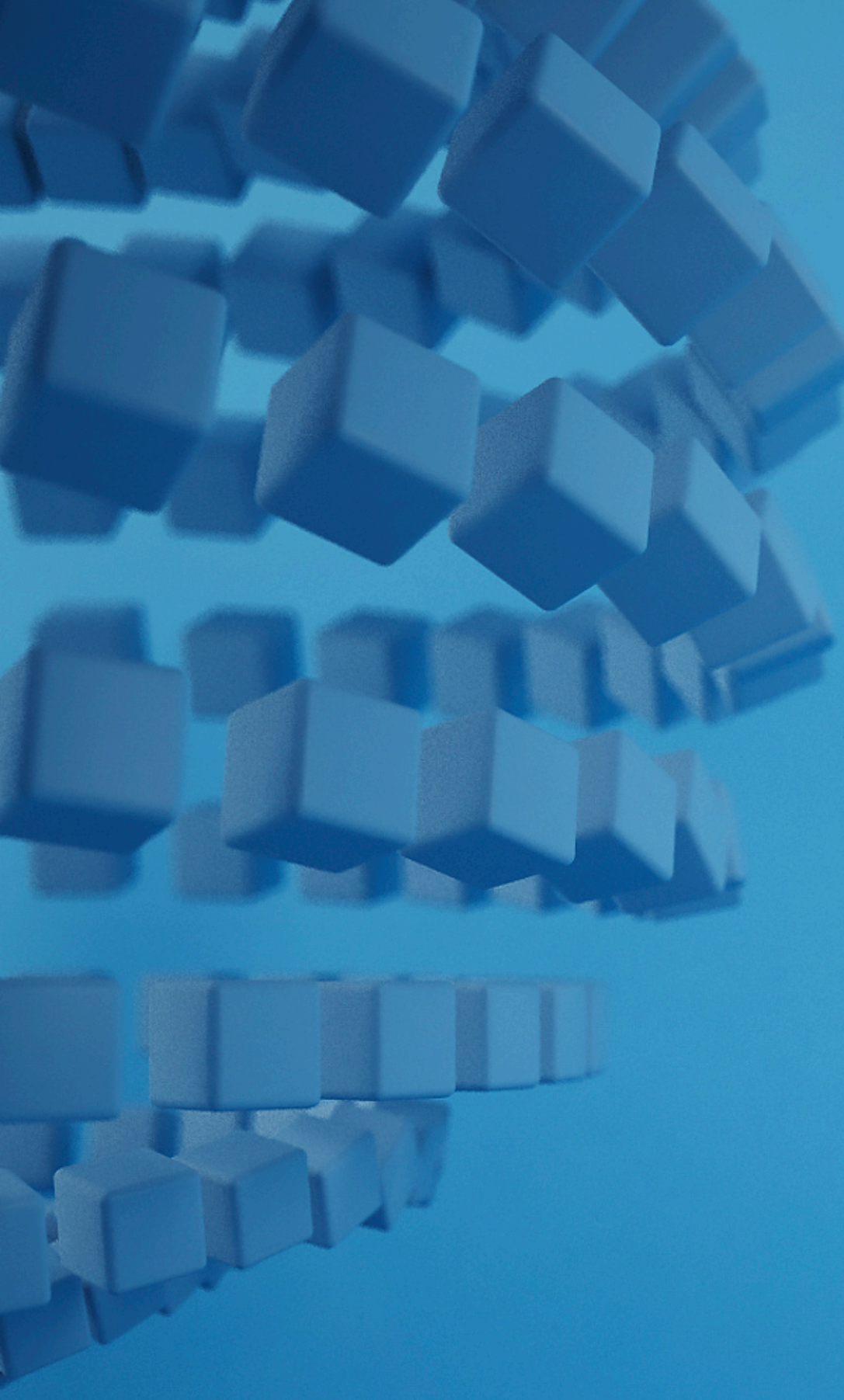


Why not wait for GOOGLE

Relevance of Data Infrastructures

Ron Dekker | *CESSDA*

Relevance of data infrastructures

- INTERNATIONAL
- European Cooperation in EOSC
- SOCIAL SCIENCES & HUMANITIES
- SSH Cooperation in SSHOC
- CESSDA

CC BY

International

- Open Science - also on DATA
  - Need to share knowledge faster & more efficient
- What do these organisations have in common?
  - Social Sciences Research Network
  - Research Data Alliance
  - NIH Commons
  - Google Public Data
  - European Open Science Cloud

Platforms

Repositories

Access Levels

Data Producers

- *Design, Sampling, Collection*
- Data Curation
  - Data Management
  - (Self) Deposit of Data
  - Secured Storage
- Training

Single Sign On

Service Providers

- Components
- Tools & Services

Platform Owner

- Rules
- Architecture

Licenses

Access i.s.o. Downloads

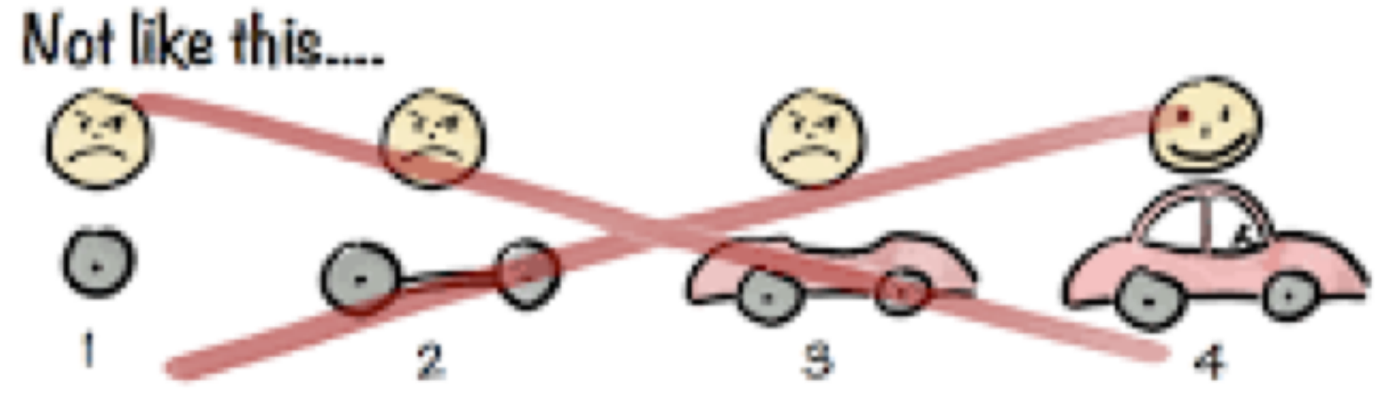
Data Users

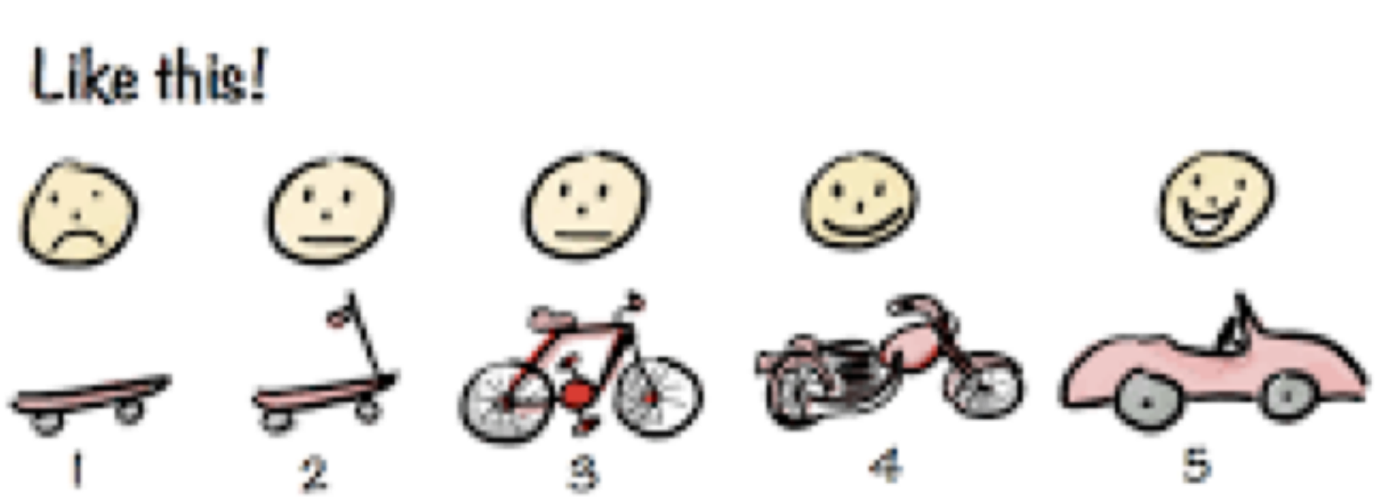
- FAIR
  - Find relevant Data
  - Access data easily
  - Interoperability
  - Re-use, incl. secure
- Training

Google Data

- Search Engine
  - Find data
  - Analyse data
- Platform
  - Harvesting from Research Data Catalogues
  - What about secured data?
  - What about connecting data?

Minimum Viable Ecosystem





EOSC

Increasing agreement among

- Member States and
  major research infrastructures and e-infrastructures

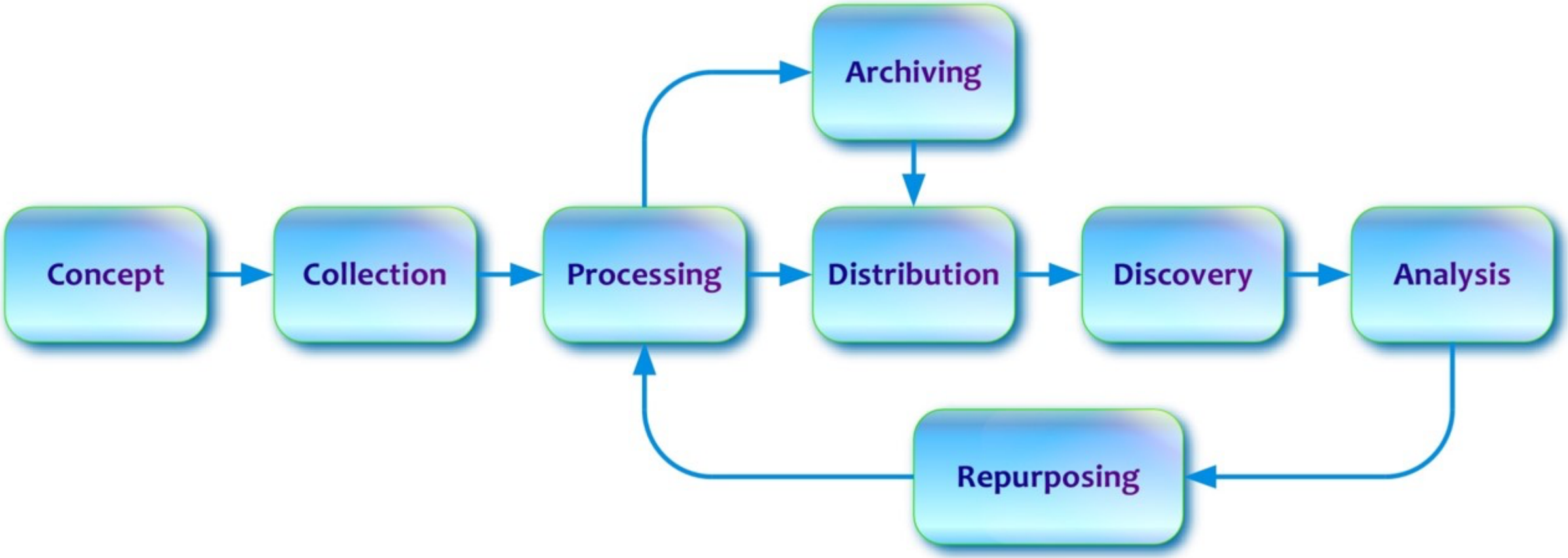
Integrated approach to research data infrastructures is needed

- going beyond layers (computing, data storage, use)
- national & disciplinary silos

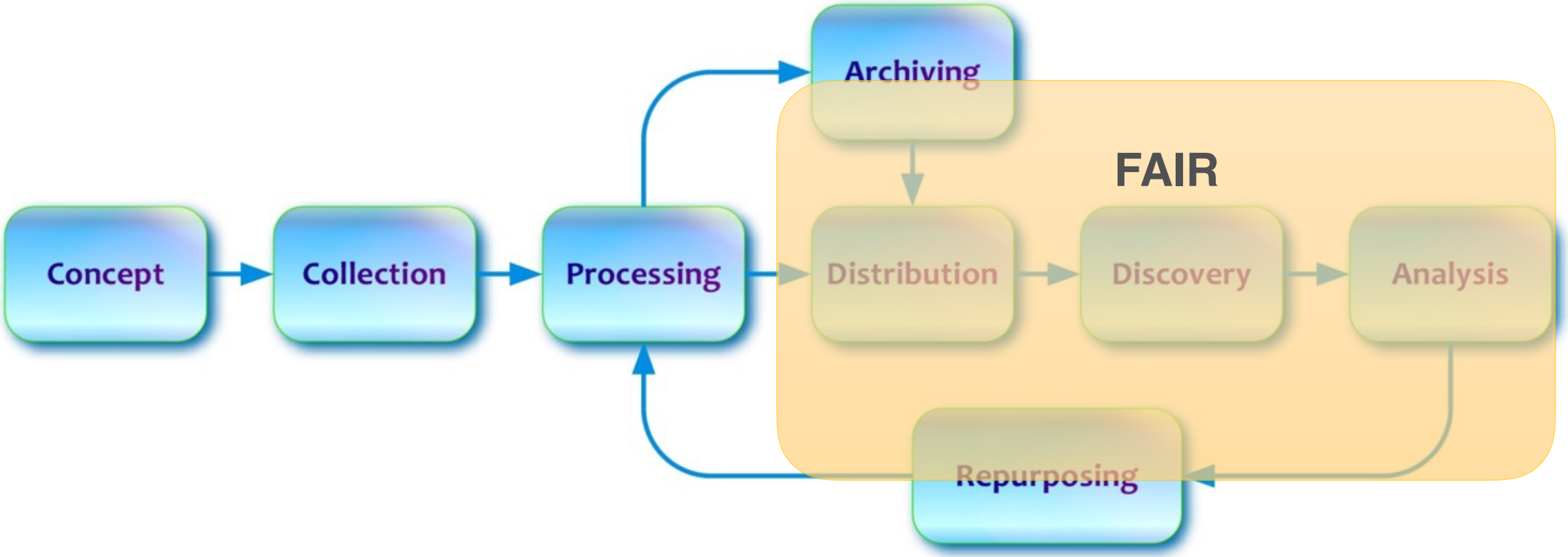
EOSC - Mission

- To provide members of Europe's research community with a virtual environment
  - with free at the point of use, open and seamless services for storage, management, analysis and reuse of research data
    - across borders and scientific disciplines
- To federate existing initiatives and structures within a single, consolidated and seamless platform

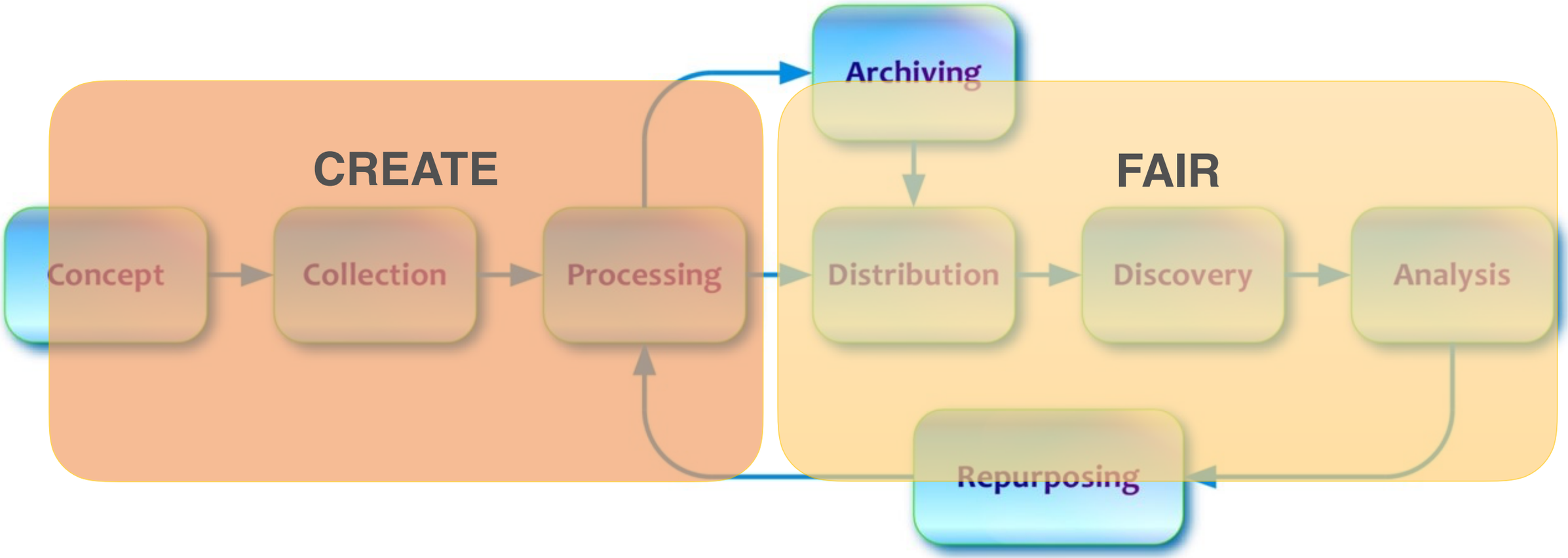
Data life cycle



Data life cycle



Data life cycle



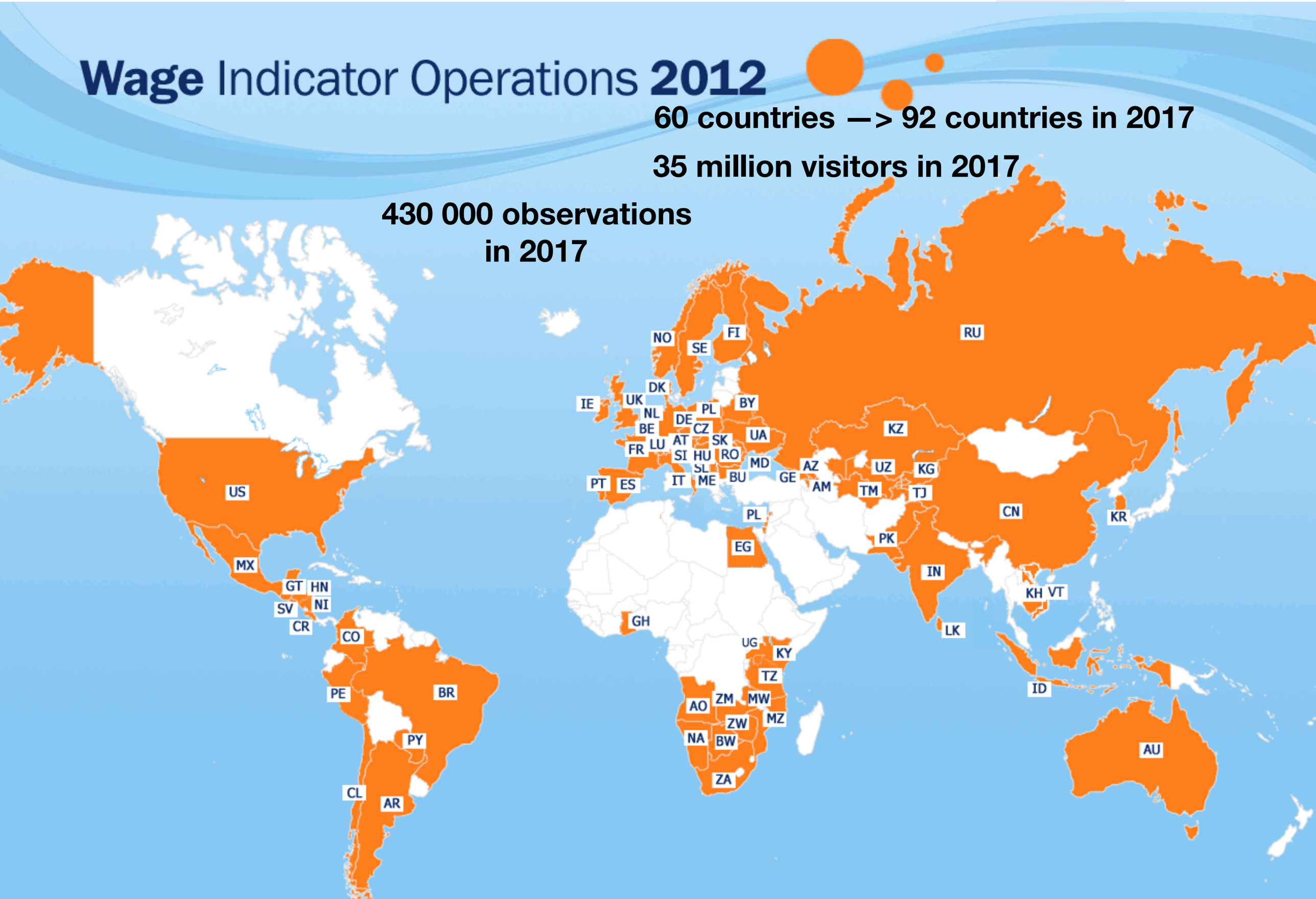
Venice Time Machine

European Social Survey

Since 2002, every two years

125 000 registered users August 2018

Wage-Indicator



SSHOC SSH Open Science Cloud

- All SSH ESFRI's
  - 47 Partners, 40 Months, 14.5 M€
  - CESSDA, CLARIN, DARIAH, ESS, E-RIHS, SHARE
  - + EVS, Wage-Indicator, 2 research communities, LIBER, Trust-IT
- Realise the SSH Cloud
  - Maximise re-use through Open Science and FAIR principles.
  - Interconnect existing and new infrastructures.

SSHOC

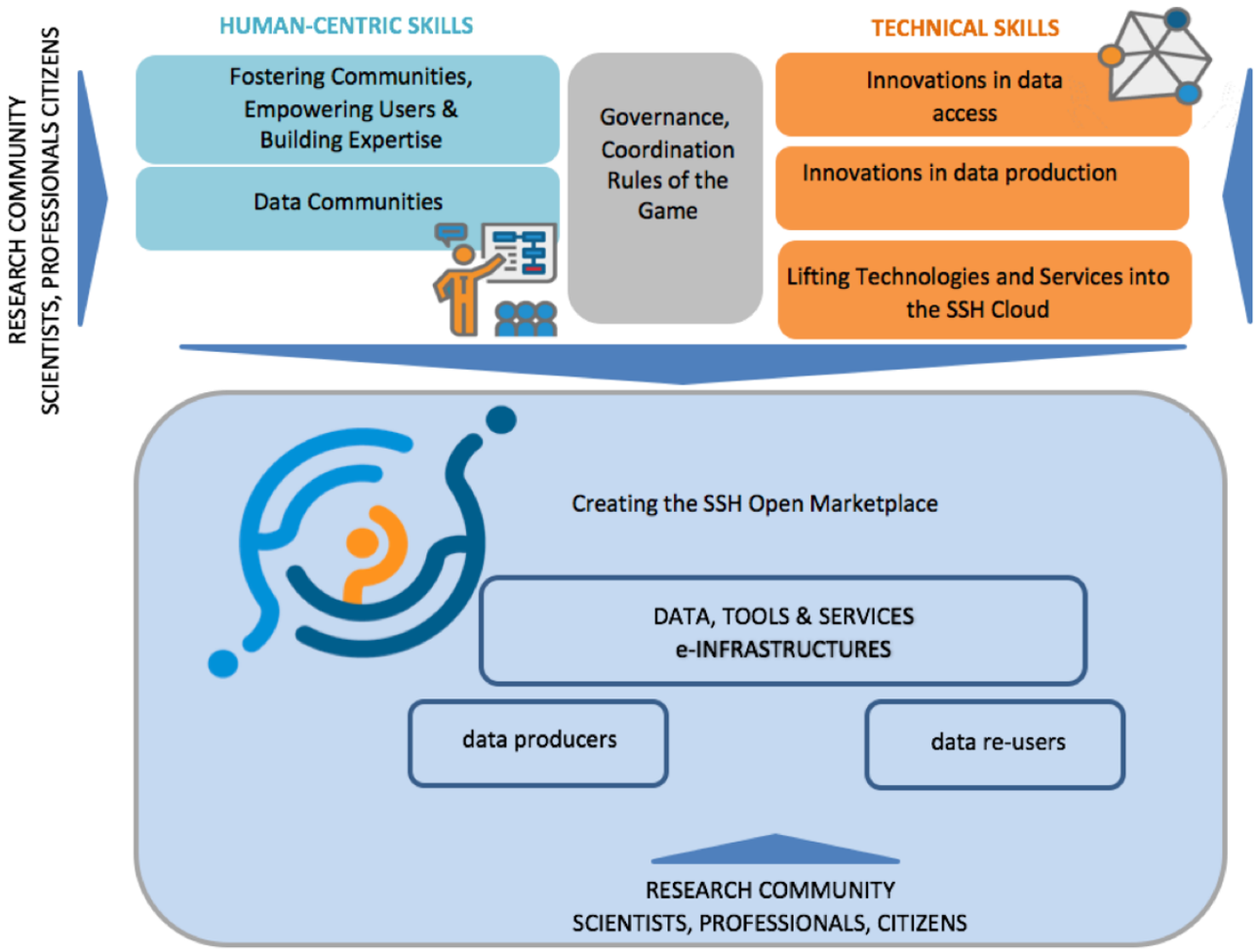
social sciences & humanities open cloud

EOSC

Research (data) communities

Training

Governance



e-Infrastructures

Innovation

Tools to the market

Marketplace

CESSDA

CESSDA - History

- Started in the ‘70s as Data Archives Meetings
- Member countries
  - increase the scientific excellence and efficacy of European research
  - easy access to data and metadata regardless of any borders
- Decision to become European Research Infrastructure
  - Countries are the members
  - National Service Providers at the core
  - Main Office for coordination

CESSDA - Mission

- Provide a distributed and sustainable research infrastructure
  - enabling the research community to conduct high-quality research in the social sciences
  - contributing to the production of effective solutions to the major challenges facing society today
- Facilitate teaching and learning in the social sciences

CESSDA - Benefits

MEMBERS (Countries)

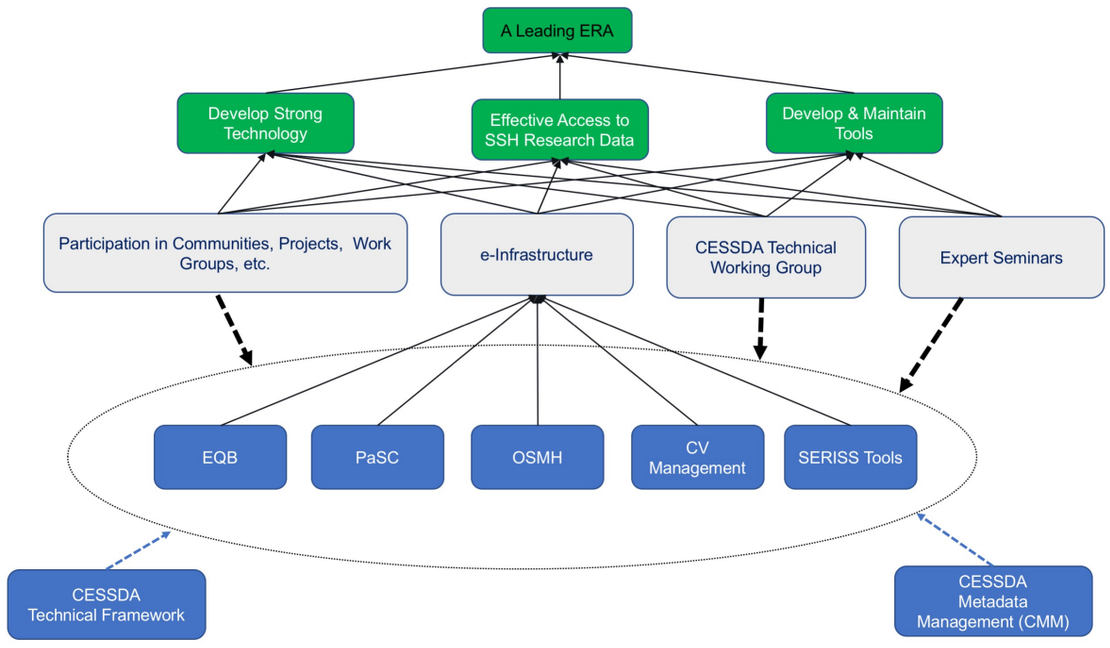
- European Research Infrastructure
  - Trusted Repositories
- Cooperation & Coordination
  - Efficiency

CESSDA - Benefits

SERVICE PROVIDERS

- Sharing Expertise
- Scale: Efficiency, Standards, EC funding
- Common Technology

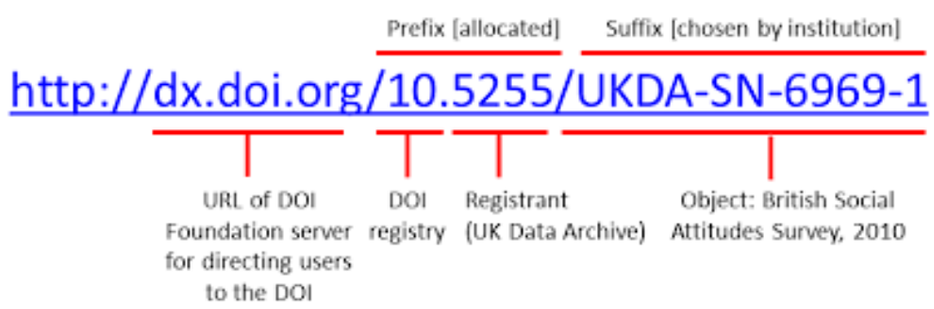
Technical Vision, Goals, Actions



CESSDA - Benefits

DATA PRODUCERS

- Easy & Safe Deposit of Data
- Visibility & Credits - Data Citation



- Compliance with Funder Requirements
- Training - e.g. Research Data Management

CESSDA - Benefits

DATA USERS

- Find & Access Relevant Data, Use Interoperable Data
- Training & Sharing Expertise - e.g. Data Discovery
- Secured Access to Sensitive Data

Strategy

TRUST

TRAINING

TECHNOLOGY

TOOLS

25

	TOOLS & SERVICES	Data Users	Data Producer	Service Providers	Members
Available	CESSDA Data Catalogue	X			
	CESSDA Metadata Harvester			X	
	CESSDA Metadata Profile			X	
	CESSDA Data Management Expert Guide		X		
	CESSDA Knowledge Exchange (Intranet)			X	
2018	Social Sciences Common Vocabulary Manager			X	
	Social Sciences Multilingual Thesaurus			X	
	Social Sciences Multilingual Question Bank	X	X		
2019	CESSDA Quality Assurance				X
	CESSDA Self-Archiving		X		
	Single Sign On	X	X	X	
	CESSDA Access to Sensitive Data	X			
2020	Social Sciences Data Discovery Tools	X			
	Social Sciences Research Data Management		X		
	CESSDA Data Tags		X	X	

Data Catalogue

Beta

Language: English

cessda eric

Products and Services Catalogue

Find Social and Economic Research Data

107010 results found in 43ms | Advanced search | Reset filters | Clear search

Topic

Collection years

Availability

Country

Publisher

Language of data files

Results per page 30

Sort by Title (ascending)

1 2 3 4 ...

"Arma sunt necessaria" (Arms are necessary) Guns, Gun Culture and Cultural Origins of the Second Amendment to the U.S. Constitution

Availability Open

Lenz, Michael

Language: EN

Go to study

"Being mischievous" and "The man and his wife"

Availability Open

Petzell, Malin

The study comprises five stories told in the Bantu language Kagulu of Tanzania. The stories are available as sound recordings as well as glossed transcriptions. However, the transcriptions do not closely follow the sound recordings but have been normalised in cooperation with a native speaker.

Metadata Standard

1.	**Study Number**
2.	Title Study
3.	Principle Investigator Reference
4.	Publisher
5.	Publication Date
6.	Kind of Data
7.	Class Identifier
8.	Classification System Name
9.	Study Area Country
10.	Universe
11.	Type of Sampling Procedure
12.	Type of Mode Collection
13.	Data access
14.	Title of study documentation
15.	Producer of the study documentation

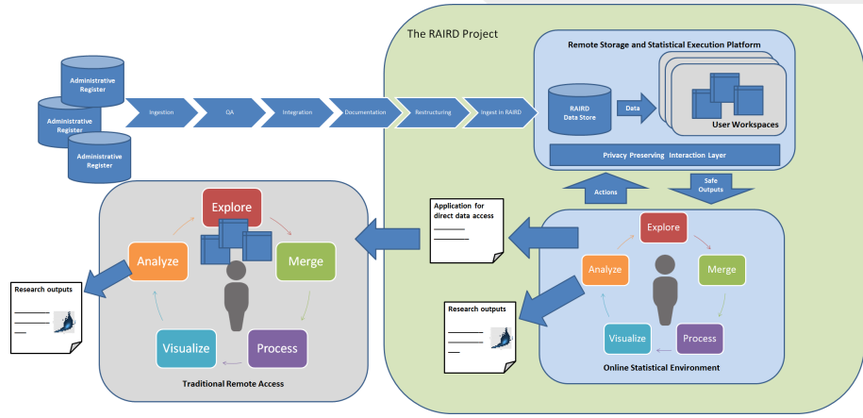
+ PID for the data set

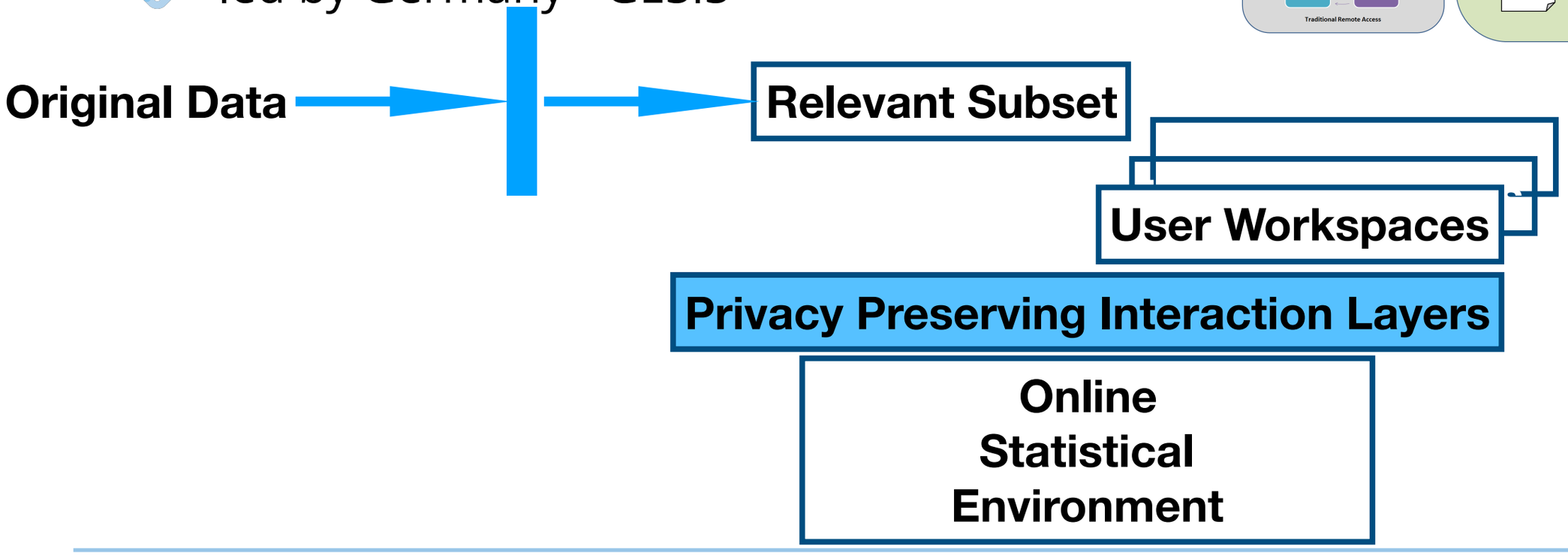
Training

- Data Management
- Data Discovery
- Expert Seminars
- Nationally: summer schools, methodology, …

Remote Access

- Pilots & Projects
  - RAIRD Remote Access Infrastructure for Register Data
    - Norway: NSD & Statistics Norway
  - ERAN: European Remote Access Network,
    - led by Germany - GESIS





Forward look - KP9

- Missions
- BOHEMIA Foresight Report: transitions on the horizon

INNOVATION - harnessing the forces of change

SOCIAL NEEDS
providing for the needs of people

GOVERNANCE
joining forces for a better world

BIOSPHERE
safeguarding a hospitable planet

Conclusions

- Relevance of Data Infrastructure
- Need for Coordination and Cooperation
  - International, National, Institutional
- Role of CESSDA, and its benefits

We do all this to support researchers and make high quality research possible

Thank you