European Social Data Platform

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Research data in Austria: Moving social sciences ahead

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TRENDS

1. SCIENCE WILL OPEN UP

- Data-driven
- Reproducibility
- Better connect within science and with society

2. INFORMATION SOCIETY

3. PLATFORMS





GOOD FOR THE ECONOMY speeds up innovation

faster progress to market

makes research available to individual citizens and to non-profit organisations greater transparency

GOOD FOR SOCIETY

1. SCIENCE WILL OPEN UP



GOOD FOR THE ECONOMY

speeds up innovation faster progress to market



GOOD FOR SOCIETY makes research available to individual citizens and to non-profit

2. INFORMATION SOCIETY

- Data is the new oil
- Re-usable

3. PLATFORMS





1. SCIENCE WILL OPEN UP

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 Value-creating interactions producers & users





previous research results

and avoids unnecessary

duplication of effort

improved quality and

GOOD FOR THE ECONOMY

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faster progress to market

GOOD FOR SOCIETY

makes research available

to individual citizens and

to non-profit

organisations

greater transparency

Open Science

"Open science is the idea that scientific knowledge of all kinds should **be openly shared** as early as is practical in the discovery process."

Michael Nielsen



Why Open Science?

Pascal Lamy



Europe must embrace the transformative power of open science

allowing for a **faster circulation of increasing amounts of knowledge**, and **seize the potential of open innovation** to trigger faster and fairer growth, building a knowledge economy that is open to the world. (p. 8)



European Open Science Agenda

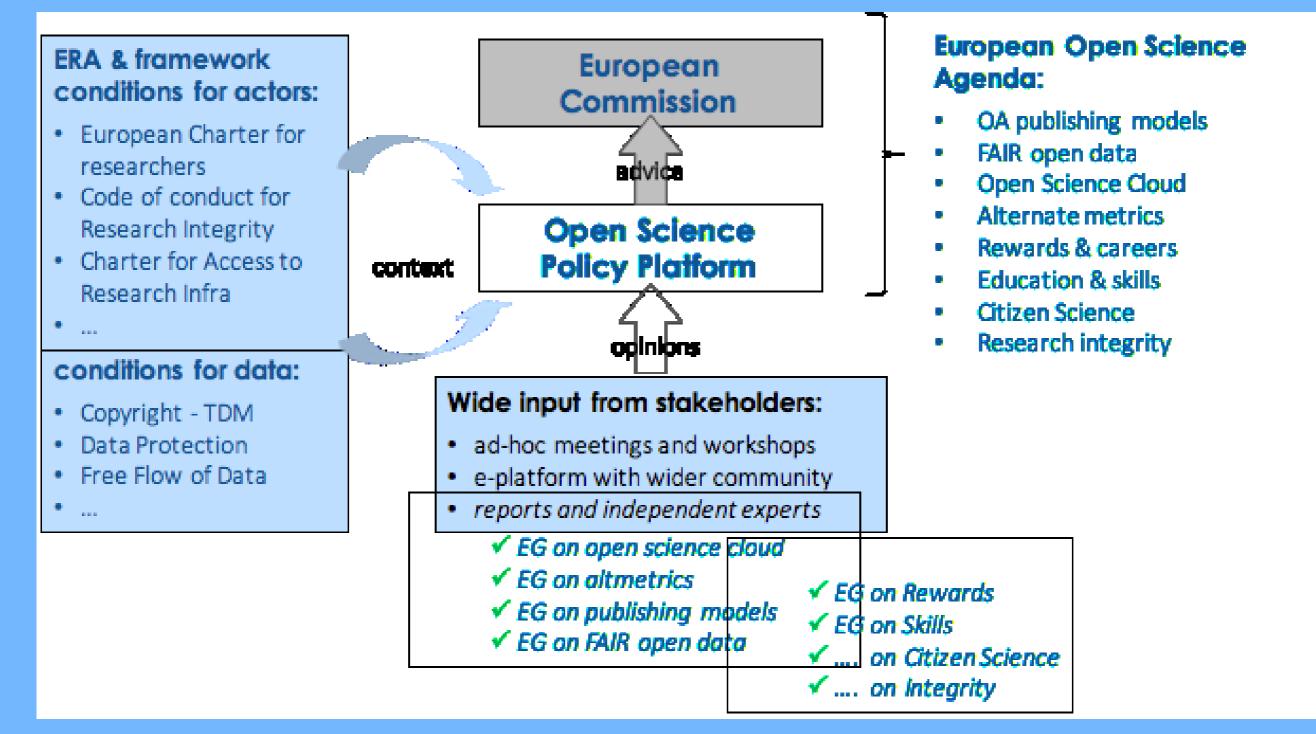
1.Reward systems
2.Altmetrics
3.New models for publishing
4.FAIR open data
5.Open Science Cloud
6.Research integrity
7.Citizen Science
8.Open education and skills

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July 2017 December 2016 Starting up Working Oct. 16 & Working WP SwafS 2018-20 WP SwafS 2018-20 July 2017

Open Science Policy Platform



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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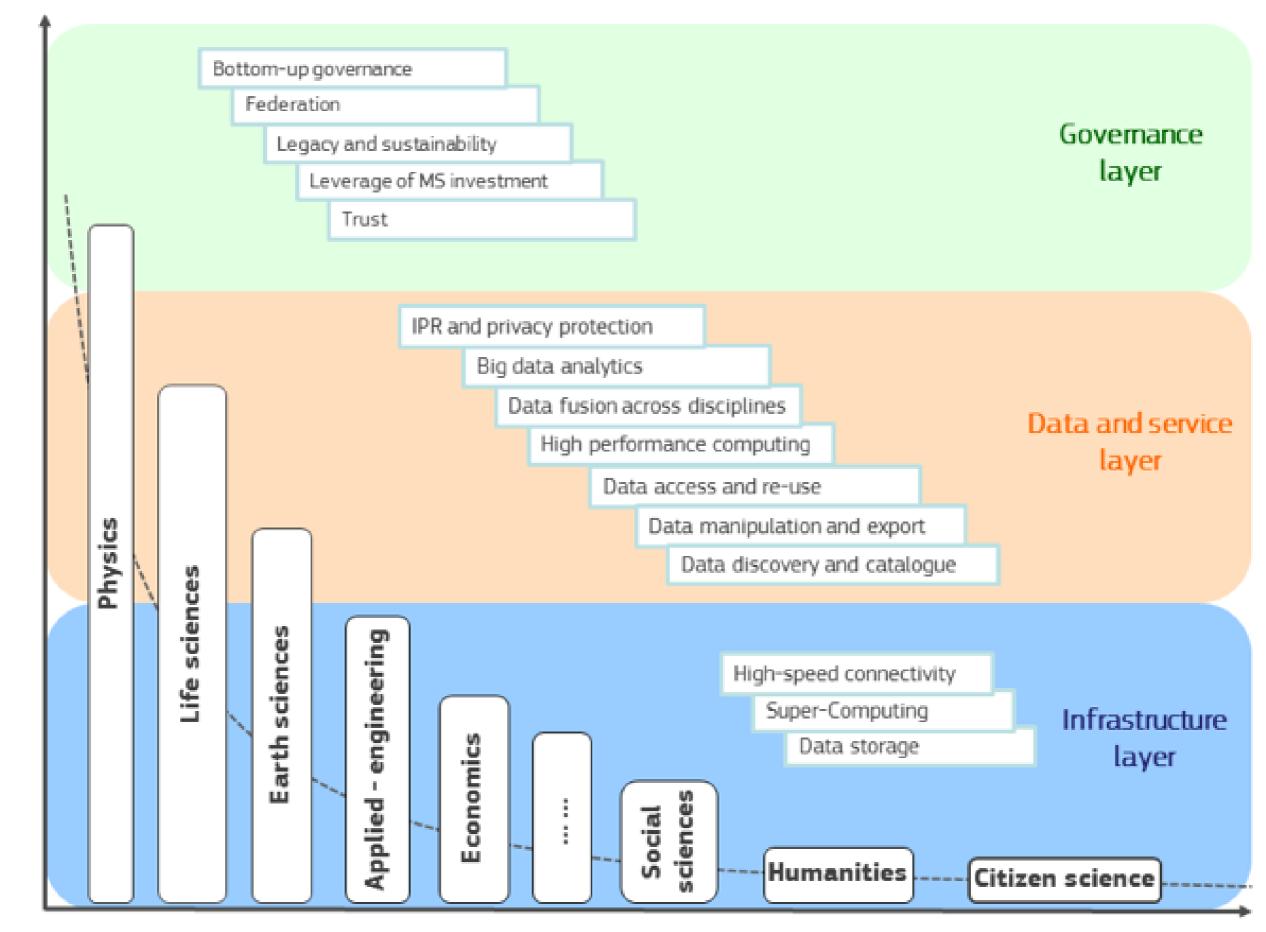
European Open Science Cloud

European Open Science Cloud is part of Europe's ambition to support the transition to Open Science and make the most of data-driven science.

Strongly stated need: it's cost-effective, and privacy & IPR-conscious

Added value: scale, data-driven science, inter-disciplinary, data - to - knowledge - to - innovation





Lead scientific users...

Scale of scientific activity (data-driven science)

...long tail of science

It's a cultural challenge

Parameters / How to ...

- Create a safe & secure environment
- Realise authentication of users, of producers
- Ensure quality of the data
- Deal with sensitive data
- Bring trust



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Culture

Change

PROCESS

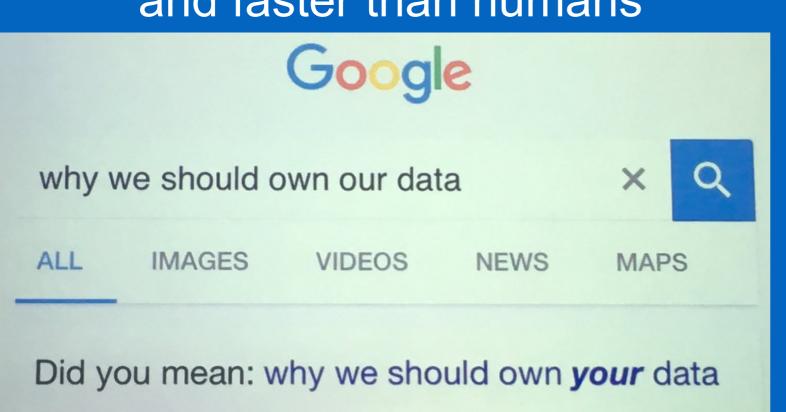
Information Society

Importance of Data

- Data become infrastructure themselves
- Big Data

Twitter

- Merging Big Data and AI is the next step
 - Machines will take better decisions, perform better, and faster than humans



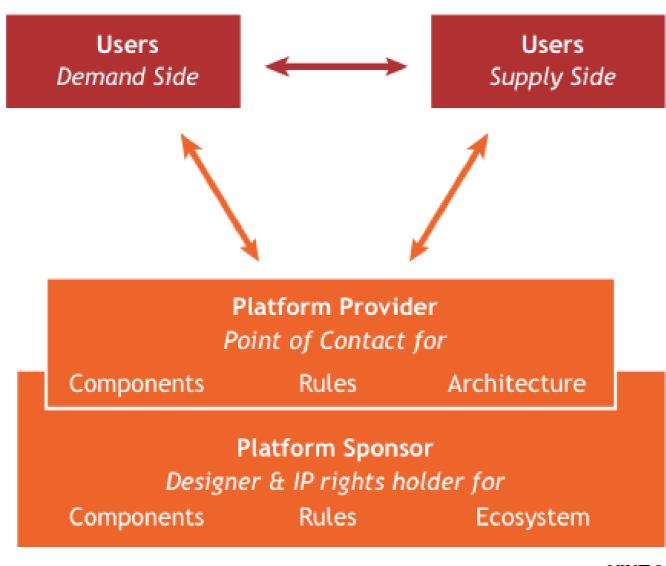


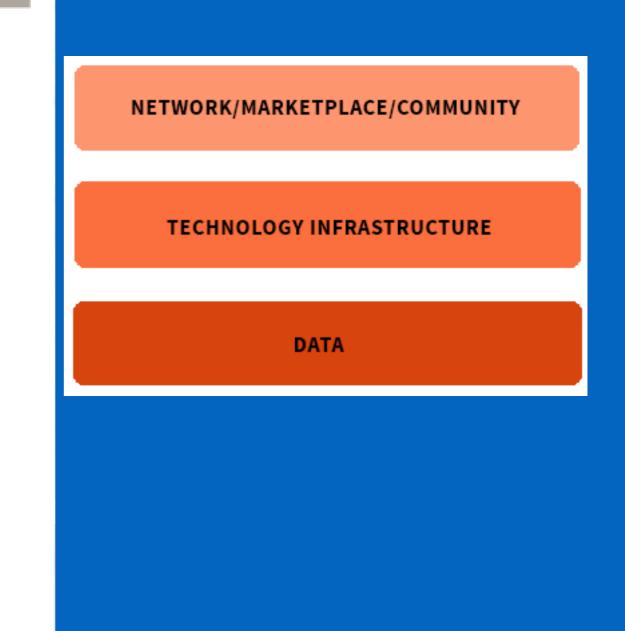
DATA CLUSTERS



PLATFORM

Ecosystem network market





VINT 2015

Data Platforms already exist

NIH Commons

NSF Open Science Cloud

Microsoft Azure

Amazon Web Services



Azure

<u>cessda eric</u>

amazon

webservices

Why CESSDA?

Member Countries are convinced that the provision of access to social science data and metadata is vital to our understanding of society

- Its major challenges
- Ongoing societal processes
- Problems involved and the solutions available

Members seek

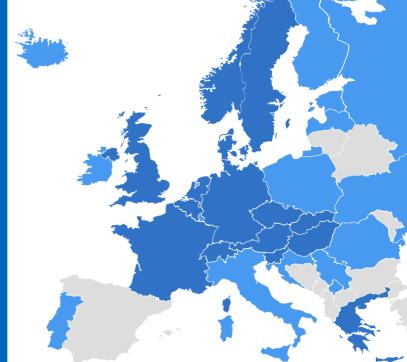
- •To increase the scientific excellence and efficacy of European research in the social sciences, as well as
- To expand easy access to data and metadata regardless of any borders

CESSDA Mission and

MISCOS for ask of CESSDA ERIC is to 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 and to facilitate teaching and learning in the social sciences

VISION: CESSDA wants to be a key player in the social sciences domain, striving for full European coverage, providing
a trusted platform for researchers with tools and services to curate, publish and re-use research data
training to the research community throughout the whole research cycle

Why a consortium?



Critical mass

In Brussels - eligible for funding, trusted repositories Standards - metadata, persistent identifiers Partnerships - other ESFRI's/ERICs, National Statistics, ... Replace Fragmentation by Coordination

Sharing expertise

Safe and Secure Data Infrastructure Joint Research & Innovation Data Clusters

For Researchers

Deposit, Find, and Re-use

Tools for constructing data, provide seamless access and use Training

Why a consortium?

Critical mass

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For Researce

Deposit Tool Tran Sharin Safe an

Joint Res Data Cluste

novation

use (e.g. DMP, Single Sign On)



CESSDA as part of EOSC

- Data Deposit and Reuse
 - FAIR
 - CESSDA Catalogue (Findable)
 - Safe & Secure Data Infrastructure (Accessible)
 - CESSDA Providers as Trusted Repositories
 - Pilots on Interoperability
- Training & Tools/Services
 - Train the Trainers & Train the Researchers
 - Data Management Tools, Vocabularies, Easy-deposit

Get your data organised

Why?

- Science and Society ask for these data
 - Importance of research data, good descriptions, easy access
- More efficient use of public finances
 - Long-term access
 - Re-use of FAIR data

How?

- Focus on the data-user
 - Problem-oriented
 - Have the users involved right from the beginning!
- Have a national backbone AUSSDA!
 - Longterm archiving and access, expertise, training, etc.
 - Ensures Sustainability and brings Trust in the ecosystem

Personal Note

IF YOU WANT TO GO FAST, GO ALONE. IF YOU WANT TO GO FAR, GO TOGETHER



Thank you

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