



■ ■ ■ ■ ■ Social Mining & Big Data Ecosystem

SoBigData

RESEARCH INFRASTRUCTURE ■ ■ ■ ■ ■

www.sobigdata.eu

SoBigData Objectives



responds to the rising demand for cross-disciplinary data-driven research and innovation

- open ecosystem for Big Data and social mining research: adequate means for accessing big social data together with algorithms for extracting knowledge from them
- to democratise the benefits of data science and Big Data within an ethical framework that harmonizes individual rights and collective interest
- Social mining is a toolbox aimed at understanding and modelling complex social phenomena and their evolution.
- Combines data-driven and model-driven analytic approaches (network science, data mining, and AI): “what is” and “what if.”

SoBigData++

1 January 2020 - 31 December 2024

The Objective is the consolidation of a cross-disciplinary European research community. The project will strengthen infrastructure tools and services by establishing an open platform for the design and performance of large-scale social mining experiments.

31 partners from 12 countries

(Bulgaria, Belgium, France, Greece, Spain, Hungary/Austria, Italy, UK, Germany, Estonia, Finland, The Netherlands, and Switzerland)

SoBigData

PPP

(ESFRI roadmap)

1 October 2022 - 30 September 2025

The Objective is the preparation to the esfri roadmap and the establishment of an ERIC managing the RI.

33 partners from 17 countries

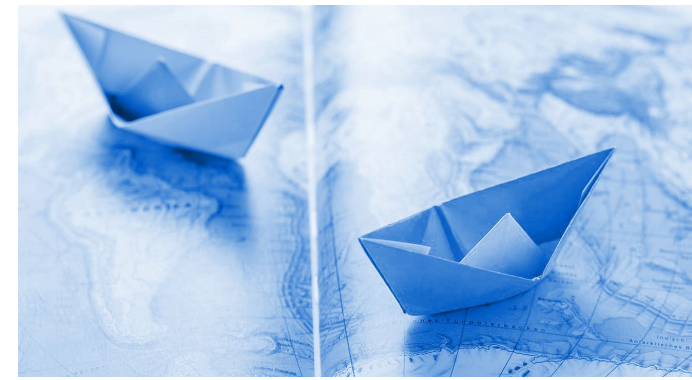
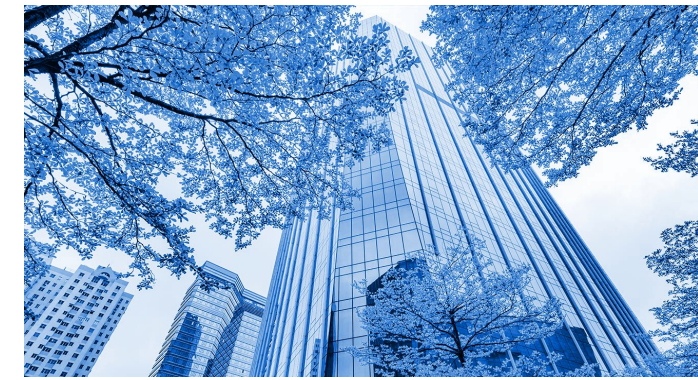
(Bulgaria, Belgium, France, Greece, Spain, Austria, Italy, Germany, Estonia, Finland, The Netherlands, Poland, Sweden, UK, and Switzerland)

SoBigData in a nutshell



- A rich **catalogue** of analytical methods and datasets. They are used as a Software-as-Service
- A platform providing services and **computational resources** to develop and perform social mining experiments
- A **distributed community** of data engineerings and data scientists;
- **Ethical foundations** underpinning the entire RI.

Exploratories



Societal Debates
and Misinformation
Analysis

Demography, Economy
and Finance 2.0

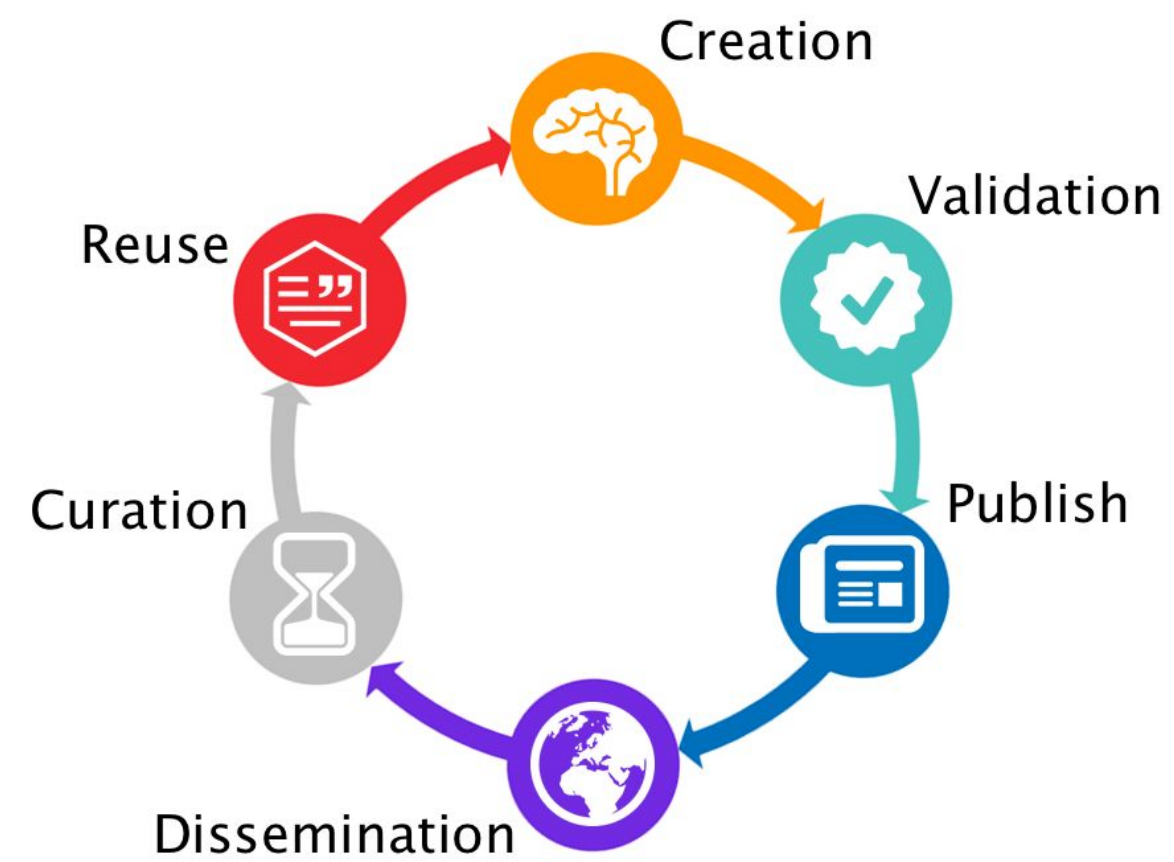
Sustainable
Cities for Citizens

Migration
Studies

Social Impact of AI and
explainable machine
learning

Sports
Data Science

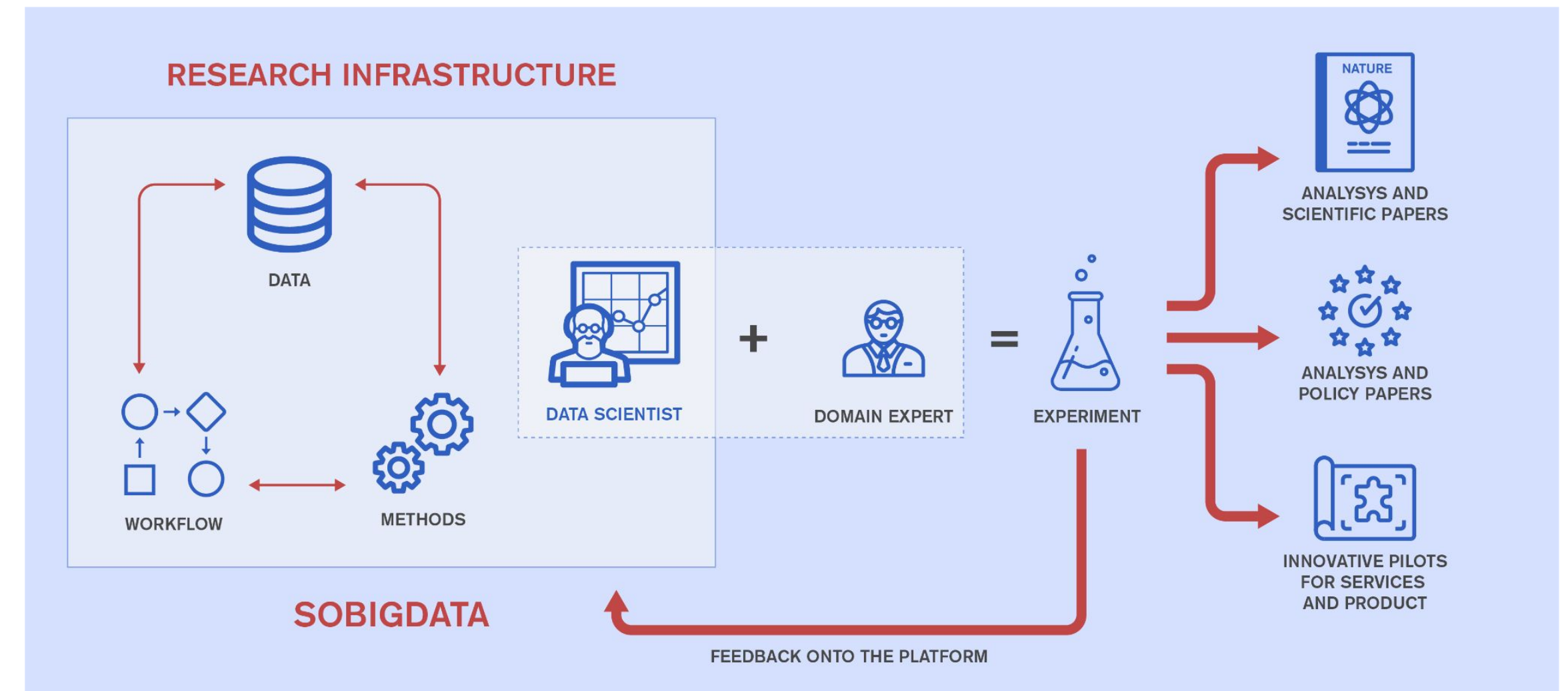
Network
Medicine



Responsible Data Science

Since 2015 the fundamental goals are:

- to act as a Wind Tunnel for innovative and responsible data science science: a place to experiment, to train, to share ideas and to learn.
- to operationalize the ethical values within Big Data Analytics.
- **Responsible open Data Science is FAIR + FACT (ethics by design)**
- to transfer this view to industry and PA which are not always aware of the responsible data science pipeline and how to exploit its full potential in a sustainable way.



FIRST AID FOR DATA SCIENTIST

This course rises within the EU SoBigData project: we developed this online course in order to make sure that all users are familiar with the basic elements about: ethics, data protection, and intellectual property law.

Access to the platform

Username

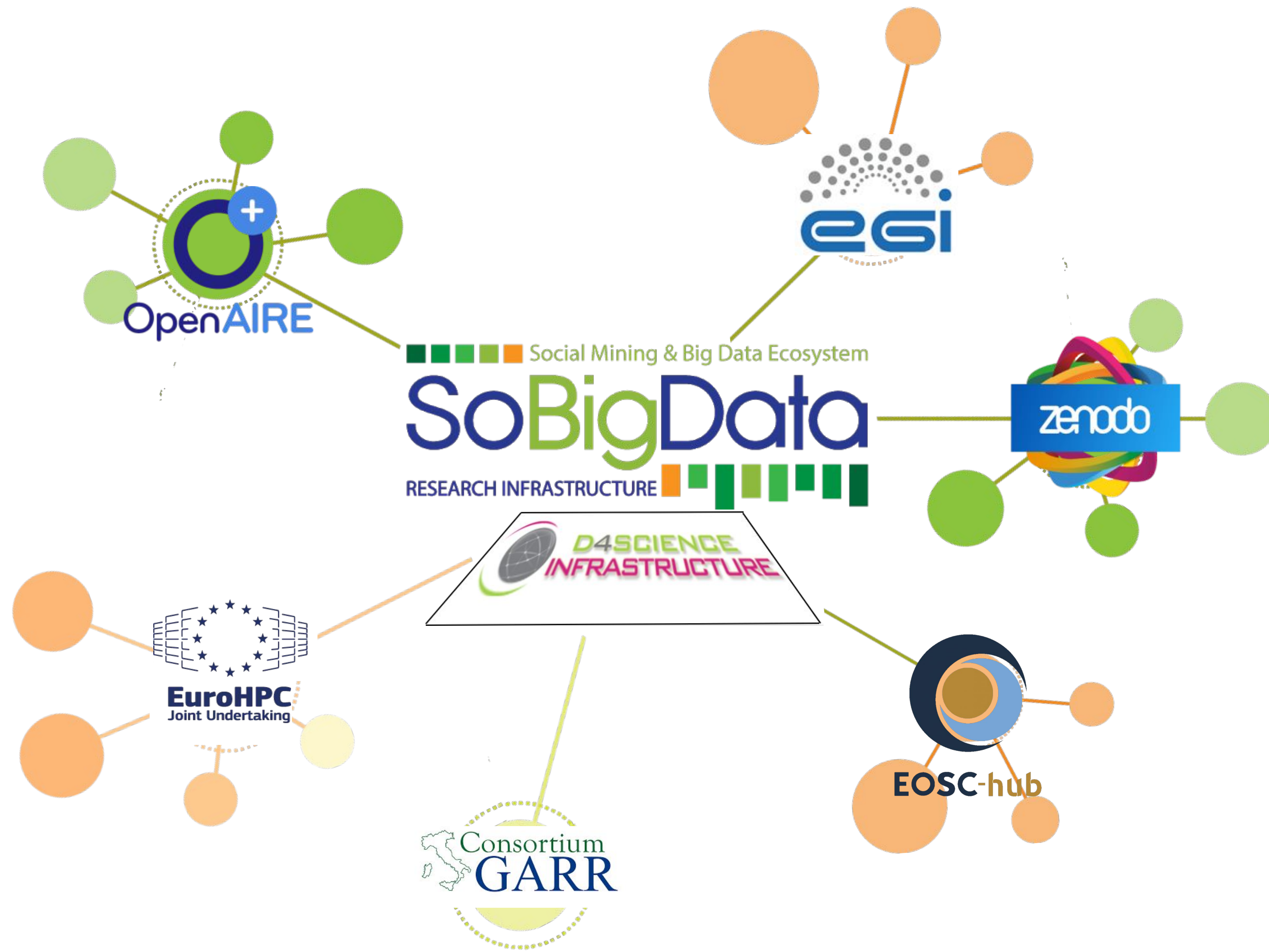
Password

Log in

Forgotten your username or password?

New account

SoBigData Providers



- SoBigData RI relies on D4Science.
- D4Science is service and identity provider in EOSC, which means that **EOSC services will be accessible in SoBigData creating synergies with the other European RIs and service providers** such as: Openaire, Zenodo, etc. (D4Science federates each e-infra with OpenStack on Kubernetes cluster and uses OIDC on standard OAuth 2.0).

SoBigData Synergies with RIs



SoBigData already have several links with other Social science and Humanities RIs. These links are the starting point for developing an effective strategy to create collaborations with existing RIs:

Social Science RIs

- ODISSEI (Open Data Infrastructure for Social Science and Economic Innovations)
- ARIADNE+ (A data infrastructure serving the archaeological community worldwide)

Humanities RIs

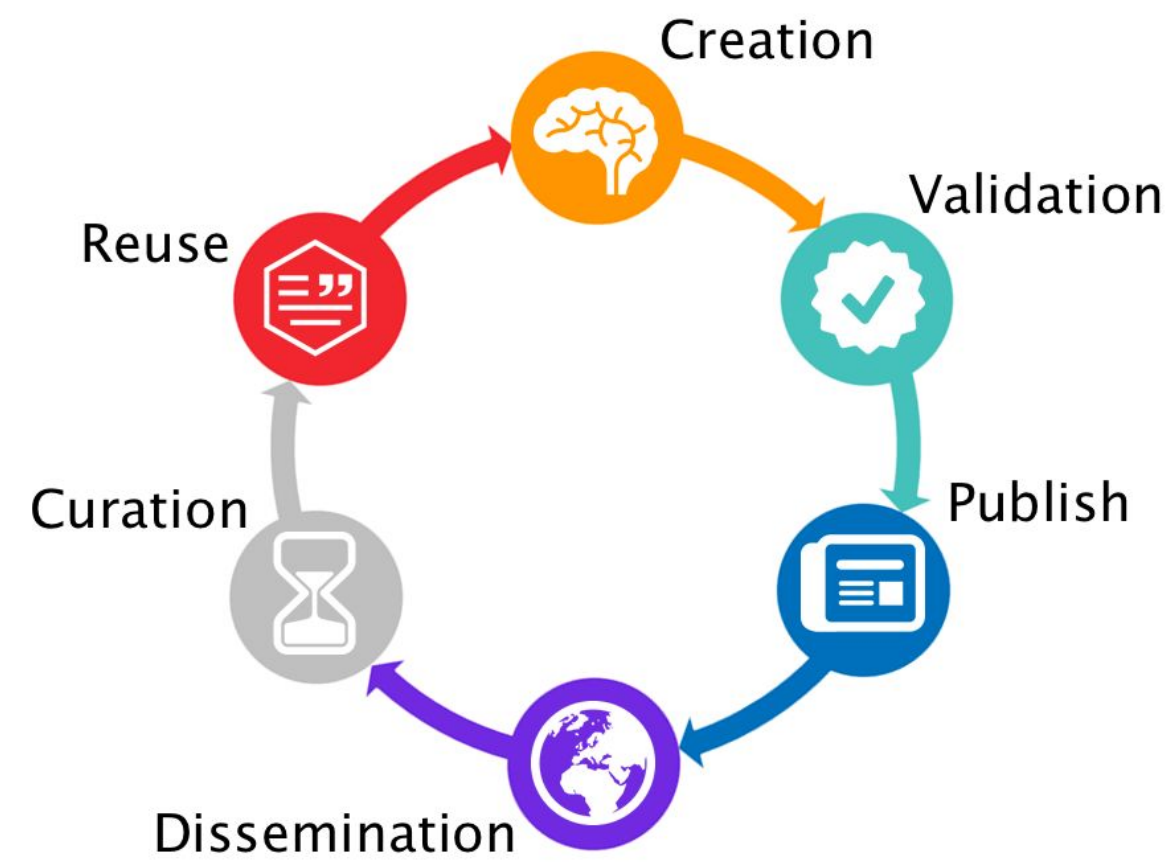
- CLARIN (European Research Infrastructure for Language Resources and Technology)
- EHRI (European Holocaust Research Infrastructure)

Pervasive Computing RI

- Slices (ESFRI Roadmap 2021)
Joint initiative on italian nodes of the RIs

SoBigData RI Services

Exploratories: Open Science tools



Events



Open call
for SoBigData-funded **TransNational Access**
open call: **continuous submission**

Social Mining & Big Data Analytics
SoBigData
Challenge Us!

Impact on scientific communication		Users community		Project community	
89+	Journal papers	9500+	VA users	128+	Researchers including PhDs
135+	Conference papers	87+	TA users	Available resources	
2	Book chapters	850+	Trainees	99	Unique big datasets
1	Monograph	5100+	Audience	109	Social mining methods and apps
120		Pilot projects developed with companies		1mln	Peak access to applications



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