The SSHOC cluster in the context of EOSC nodes

EOSC- France
12 septembre 2024

SSHOpenCluster
Social Sciences & Humanities Resources

Where does the SSH cluster come from?

SSHOC

social sciences & humanities open cloud

Horizon 2020
European Union Funding
for Research & Innovation

Type of action & funding:
Research and Innovation action
(INFRAEOSC-04-2018)

Partners: 53
(28 beneficiaries + 25 LTPs)

SSH ESFRI Landmarks and Projects
& international SSH data infrastructures

Project budget:
€ 14,455,594.08

Project website:
www.SSHOpenCloud.eu

Duration: 40 months
(January 2019 – 30 April 2022)

Objectives:

- creating the social sciences and humanities **(SSH)** part of European Open Science Cloud **(EOSC)**
- maximising **re-use** through **Open Science** and **FAIR** principles (standards, common catalogue, access control, semantic techniques, training)
- interconnecting existing and new infrastructures (clustered cloud infrastructure)
- establishing appropriate **governance model** for SSH-EOSC

SSHOC Results

33 SSHOCing Key Exploitable Results
to support your research in SSH and Beyond

- available for further research activities after the end of the project

- covering data management, sharing & discovery, training & support, processing & analysis and SSH Communities

- all tools are being made accessible via the **SSH Open Marketplace** and 13 of them onboarded on **EOSC Portal**

https://www.sshopencloud.eu/service-catalogue

social sciences & humanities open cloud
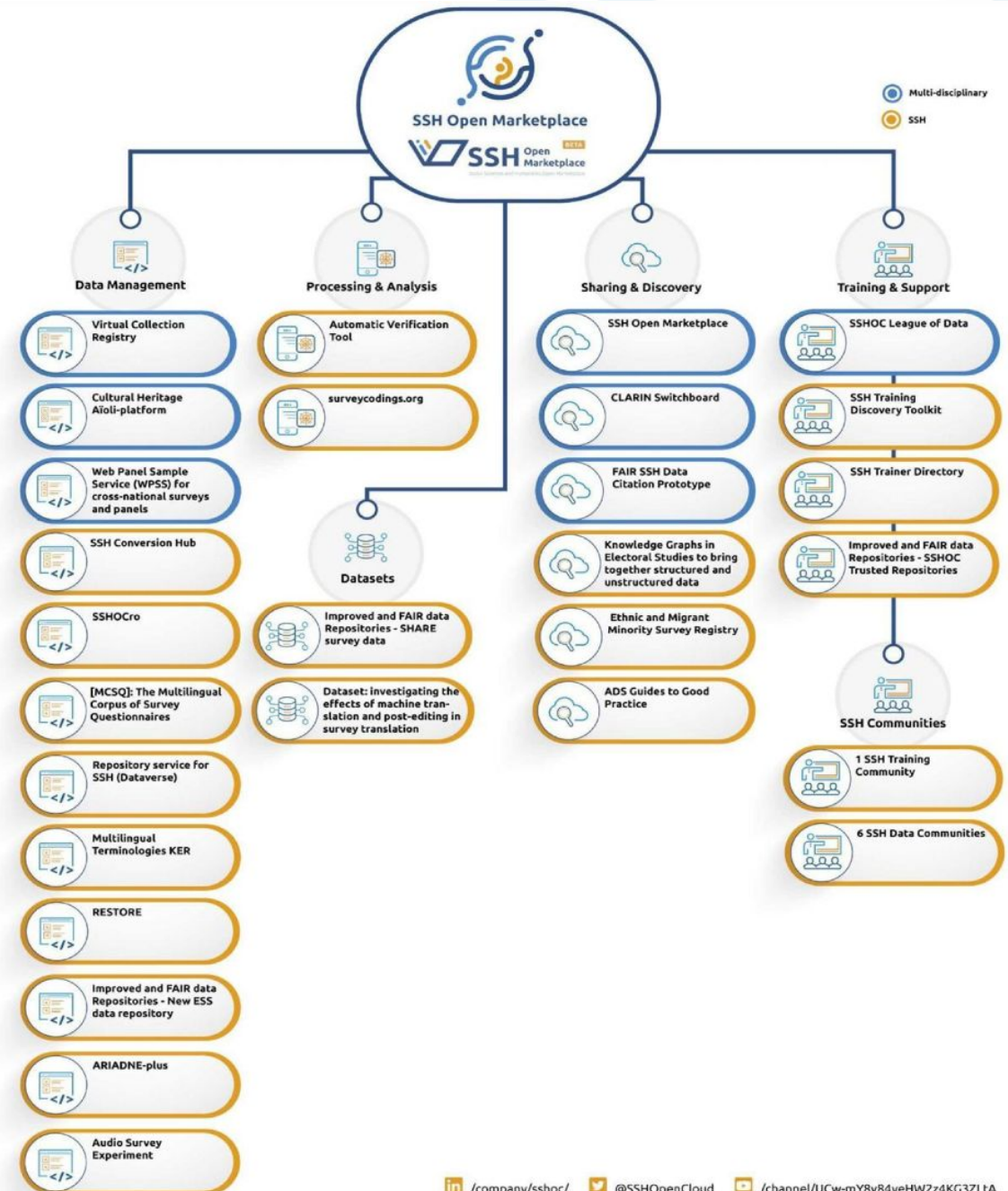
From SSHOC to SSH Open Cluster

- So far:
  - Memorandum of Understanding for SSH Open Cluster
  - Established the Governing Board and Rules of Procedure
  - Elected Chair and Vice Chair
  - Invited new RIs to join the Governing Board
- Goals:
  - Maintaining SSHOC results and their interoperability
  - Facilitate access, knowledge exchange and collaboration among partners, communities and stakeholders
  - Strengthen the representation of the SSH domain in the EU RI landscape

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Organisation and members

Introducing the Governing Board

Research Infrastructure Delegates

CESSDA Consortium of Social Sciences Data Archives	Bonnie Wolff Boenisch, Martina Drascic Capar
CLARIN Common Language Resources and Technology Infrastructure	Darja Fišer, Franciska de Jong
DARIAH Digital Research Infrastructure for the Arts and Humanities	Toma Tasovac, Sally Chambers
ESS European Social Survey	Rory Fitzgerald, Angelika Scheuer
E-RIHS European Research Infrastructure for Heritage Science	Vania Virgili, Emanuel Demetrescu
EHRI European Holocaust Research Infrastructure	Reto Speck
GUIDE Growing Up In Digital Europe: EuroCohort	Jennifer Symonds
GGP Generations and Gender Programme	Anne Gauthier
RESILIENCE Religious Studies Research Infrastructure	Francesca Cadeddu
OPERAS Open Access in the European Area Through Scholarly Communication	Maciej Maryl
SHARE European Research Infrastructure Consortium for the Survey of Health, Ageing and Retirement	Axel Börsch-Supan

Rules of Procedure

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RULES OF PROCEDURE

for the implementation of the

"Memorandum of Understanding for
the establishment of the SSH Open Cluster"

Highlights of core services

GoTriple Service

https://www.gotriple.eu

- Discover and reuse open scholarly SSH resources i.e. publications, datasets, projects - in multiple languages!

- Find and connect with other SSH authors and researchers

- Make use of innovative tools to enhance user experience (e.g. visualisation, analytics, web annotation, trust building and recommender system)

Developed by:

GoTriple Data Providers

OAI-PMH is the easiest way…but

GoTriple Numbers

15.974.486
Documents

23.173
Projects

18.746.482
Profiles

~400 user profiles

~20 data providers

1,300+ data sources

UI in 9 languages

Keywords in 11 languages

Jun 1, 2023 — May 31, 2024   Today   Yesterday   7D   30D   3M   6M   12M   XTD

Compare

Linear   Month   Line

Session Start [Total Events]

17.5K

15K

12.5K

10K

7.5K

5K

2.5K

June July August September October November December January February March April May

Event 1	Average	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024
Session Start [Total Eve...	2,590.4	369	1,136	601	269	5,431	5,170	16,330
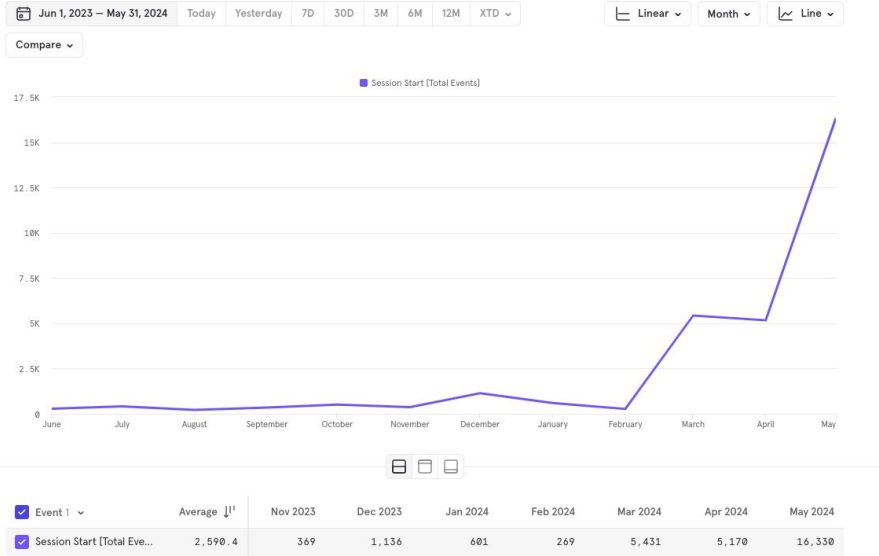
Gaining traction over the last 6 months
1000 -> 8000 -> 15000
unique visitors / month

marketplace.sshopencloud.eu

Governing Board

CESSDA, CLARIN, DARIAH
3 ERICs service agreement
150k€ for 20 months
Service provision is ensured by
ACDH-CH (OEAW) and by
PNSC.

Research Communities

- 300 visits/month (last 5 months)
- 289 registered users (+70 in 5 months)
- 130 manually created items & ~1000 enriched (last 6 months)

Editorial Board

- 17 members: 8 appointed and funded by the ERICs & 9 volunteers
- Curation: vocabularies, URLs checks, actors…
- 9 events (presentations, train-the-trainer, hands-on) since Apr. 23

Report an issue

SSH Open Marketplace

Tools & services   Training materials   Publications   Datasets   Workflows   Browse   Contribute

Social Sciences & Humanities Open Marketplace

Discover new and contextualised resources for your research in Social Sciences and Humanities: tools, services, training materials, workflows and datasets. Read more...

All categories   Search
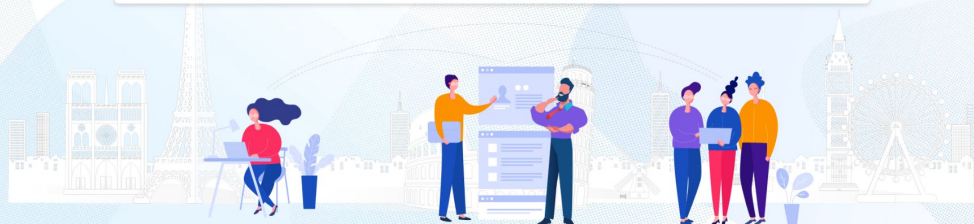
Towards Science Cluster Service and Data Source Profiles

SSH structuration at a global scale

Beyond EOSC

- Common European data spaces
  - including Cultural Heritage, Language, Health, Tourism, Skills, etc.
  - part of the European Strategy for Data ("a single market for data")
- Collaborative Cloud for Cultural Heritage
  - safeguard European cultural treasures through a digital infrastructure
  - €110 million until 2025 from Horizon Europe
- The New European Bauhaus
  - connecting the European Green Deal to our living spaces and experiences that are "beautiful for our eyes, minds, and souls"
    - *Enriching*, inspired by art and culture, responding to needs beyond functionality
    - *Sustainable*, in harmony with nature, the environment, and our planet
    - *Inclusive*, encouraging a dialogue across cultures, disciplines, genders and ages

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From Science Clusters to Individual RIs

Cross or Inter-Cluster Activities

- Advocacy & Outreach: Stakeholder Liaison, e.g. EOSC-A

SSHOC Common Strategy

- SSH Open Marketplace Maintenance & Operation

SSHOC Annual Plan

- SSH Resources in EOSC (Service & Data Portfolio)

Tasks for Individual RIs

- Community Specific Needs

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EOSC means cooperation

GOAL

Ensuring the relevance of RIs for SSH communities and their position within EOSC
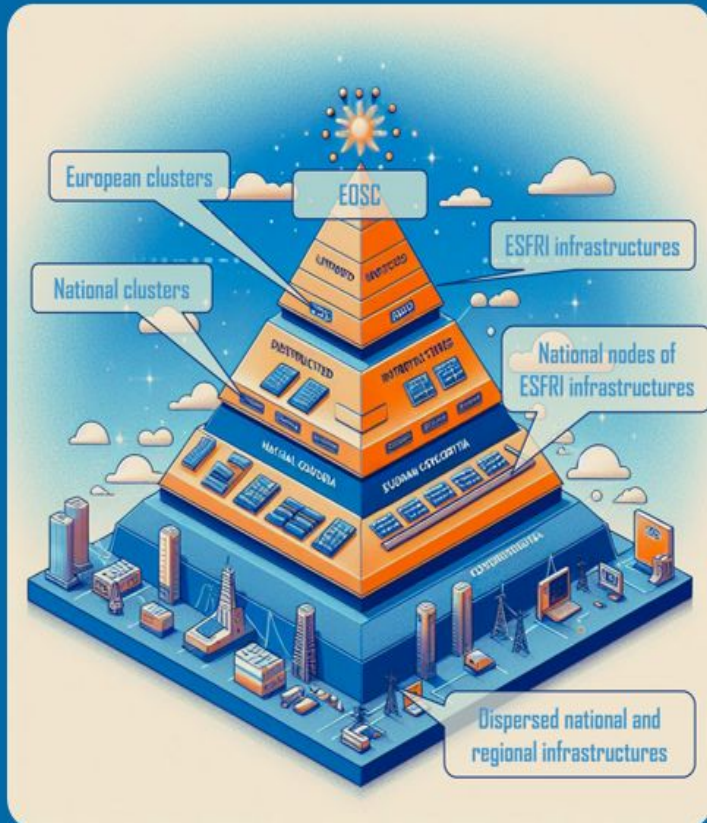
01 Streamlining cooperation on different levels to achieve a broader impact

02 Leveraging the potential and scalability of national infrastructures

03 Supporting development of disciplinary communities through projects within existing RIs

Thank you

![SHARE — Survey of Health, Ageing and Retirement in Europe]

European Research Infrastructure Consortium for the Survey of Health, Ageing and Retirement

Mission: Observatory to document life-course effects of health, social and economic policies.

Longitudinal data since 2004

140,000 respondents 50+
610,000 Interviews
120,000 retrospective

Life histories

2 Covid-19 waves

95,000 Blood punches

Consortium: **28 countries**, all of EU

Existing since: 2022

Roadmap entry: 2006 project, 2011 ERIC

USA
British Isles
Global Network
Mexico, Brasil
South Afrika

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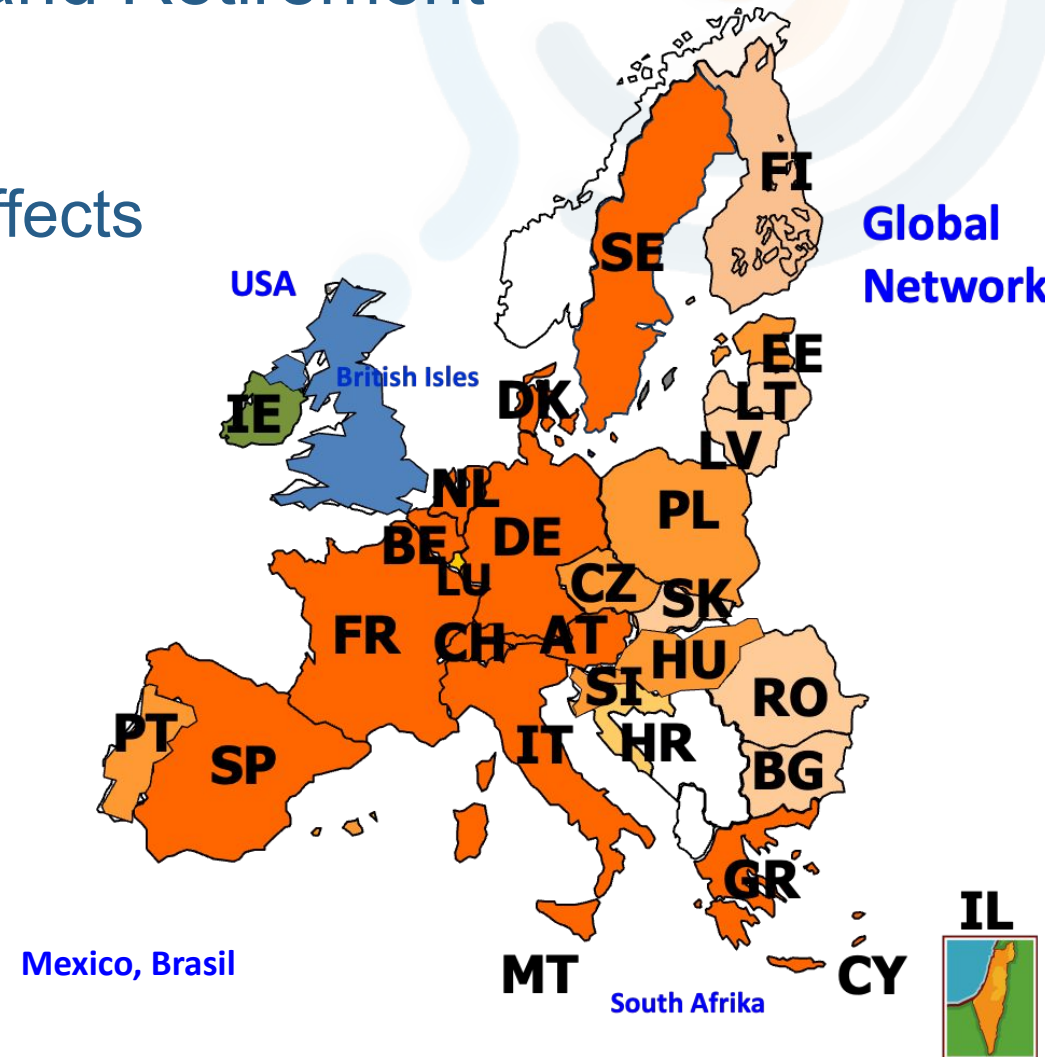
cessda Consortium of Social Sciences Data Archives

Mission: enable social science researcher to conduct high-quality research for the benefit of society by providing **access to** European social science **data** and **metadata,** in a **secured trusted environment**, ensuring **long-term preservation** of data, and offering **services to data producers** (training, share best practices, common standards, alignment of policies) while adhering to the FAIR data principles.

Consortium / Staff: 21 member countries, 12 partners; 8 employees in MO

Existing since: 1976, formalised 2013 (legal entity)

Roadmap entry: 2016, ERIC since 2017

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Common Language Resources and Technology Infrastructure

Mission:

- Create and maintain an infrastructure to support the sharing, use and sustainability of language data and tools for research in SSH

Consortium / Membership / Staff:

- 22 member countries & 3 observer countries, > 170 nodes
- Distributed network of 70 centres, 21 CoreTrustSeal certified data centres
- 25 central staff (not FTE, not all funded from the central budget)

Existing since:

- Mid 1990s through a series of projects (RELATOR, TELRI, PAROLE)

Roadmap entry (Year):

- ESFRI Roadmap 2006
- ESFRI ERIC status since 2012, Landmark since 2016

CLARIN

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Digital Research Infrastructure for the Arts and Humanities

Mission: to empower research communities with digital methods to create, connect and share knowledge about culture and society.

Four strategic pillars: 1) Marketplace; 2) Training and Education; 3) Working Groups, Hubs and other forms of Transnational and Transdisciplinary Collaboration; 4) Research policy & advocacy

Consortium / Membership / Staff: 20 Members; 1 Observer, 9 Cooperating Partners; 293 Partner Institutions, 9.8 FTE Core Staff

Roadmap entry: 2006; ERIC: 2014; ESFRI Landmark: 2016

European Research Infrastructure for Heritage Science

Mission: To ensure that **cultural heritage** remains meaningful, relevant, and accessible in a diverse and changing world for the benefit of present and future citizens.

E-RIHS provides users with centrally-managed access to state-of-the-art mobile and fixed labs (**MOLAB** and **FIXLAB**), physical and digital archives, dataset and tools (**ARCHLAB** and **DIGILAB** under construction).

Additionally, E-RIHS offers high-level training programs (**HS Academy**) targeting students, scholars, and practitioners from both public and private sectors.

Consortium / Membership / Staff: 14 Members (BE, CY, ES, FR, GR, HU, IT, MT, NL, PL, PT, RO, SI, UK), 2 Observers (AT, SE) and 1 permanent Observer (ICCROM)

Existing since: concept (2001-13), design (2014-16), preparation (2017-20), implementation (2022-24) and operation (expected to begin in 2024)

Roadmap entry (Year): 2016. Establishing as an ERIC (step 2 submitted in 03/2023)

European Holocaust Research Infrastructure

Mission: Provision of virtual and in-person access to highly dispersed and fragmented Holocaust resources and to accelerate the digital transformation of research and archiving through methodological innovation, networking and training activities.

Consortium / Membership / Staff: Current consortium 27 institutions from 17 countries / 11 countries expected to be founding members of EHRI-ERIC / 8 members of staff at interim Central Office

Existing since: 2010 (as a series of project-based consortia)

Roadmap entry (Year): 2018; step-1 ERIC application to be submitted in 2023.

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Growing Up In Digital Europe: EuroCohort

Mission: To track the wellbeing and development of children and young people across Europe in an accelerated cohort study from birth to age 24-years. To provide international comparative data on the conditions for promoting wellbeing in families, schools, and communities. To listen to the voices of children and parents.

Consortium / Membership / Staff: Jennifer Symonds & Gary Pollock

Existing since: 2014

Roadmap entry (Year): 2021

Generations and Gender Programme

Mission: To provide scientists and policy makers with high quality and timely longitudinal data about population dynamics, families and life course trajectories to answer key scientific and societal challenges related to demographic changes.

Consortium / Membership / Staff: 11 full members and 3 observers in the GGP Consortium, 9 employees in the Central Coordination Team (HQ in The Hague)

Existing since: 2000

Roadmap entry (Year): 2021

RESILIENCE

Religious Studies Research Infrastructure

Mission:

Distributed, cross-disciplinary RI (aiming to) supplying access to digital as well as physical **data on religion** and to **advanced tools and expertise** in knowing and understanding these data.

Consortium / Membership / Staff: 13 member institutions, 1 observer, 1 associate partner

Existing since: 2018

Roadmap entry (Year): 2021

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OPERAS

Open Scholarly Communication in the European Research Area for Social Sciences and Humanities

Mission: Distributed Research Infrastructure supporting **open scholarly communication** in the SSH in the European Research Area. Its mission is to **coordinate and federate resources** in Europe to efficiently address the scholarly communication needs of European SSH researchers.

Consortium / Membership / Staff: **59** members from **19** countries (incl. **12** core member countries)

Central Hub in Brussels | **15**-member Coordination Team (incl. **9** AISBL employees)

Existing since: **2017**

Roadmap entry: **2021**

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European Social Survey ERIC

Mission:

- To provide high quality data measuring change (and stability) over time within and between European countries in their living conditions, social structure, public opinion and attitudes;
- To practice and promote the highest scientific standards in cross-national comparative research in the social sciences.

Consortium / Membership / Staff: 28 member countries, 1 observer

Existing since: 2001

Roadmap entry: 2006, ERIC since 2013, landmark since 2016

Collaboration between the clusters (1/2)

In the context of H2020 EOSC Future:

10 science projects
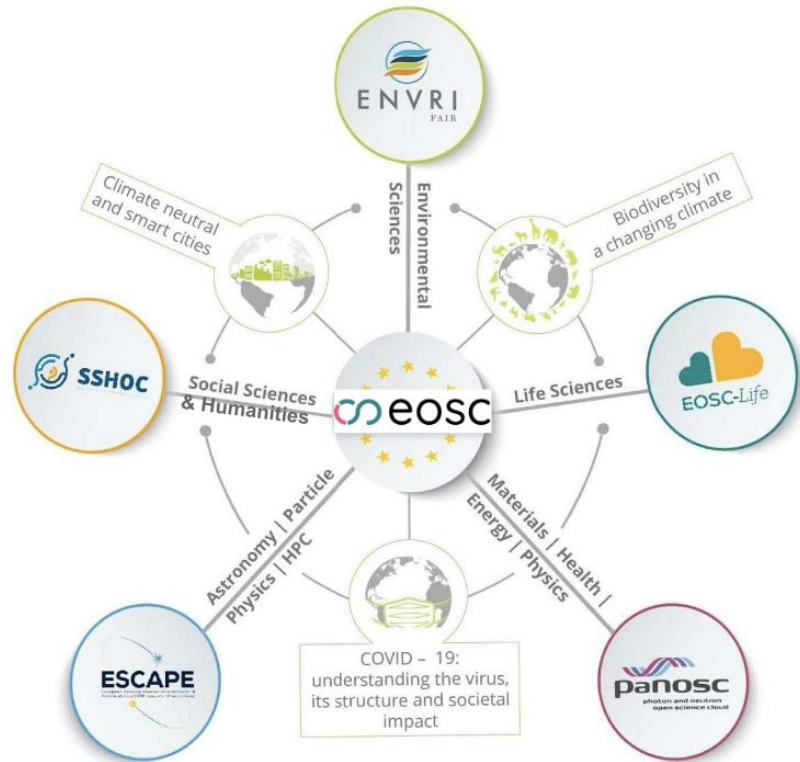
- Cross-domain / interdisciplinary collaboration
  - Defragmentation of communities
  - Underline the potential for the integration of generic and thematic approaches
- To validate the Vision and Value of EOSC:
  - Test / demo-projects addressing societal challenges
  - Support Open Science and promote FAIR principles
  - Increasing the base of users and communities served by (aspects of) EOSC
- Two examples on next slides
- See also https://eoscfuture.eu/data-in-action/

Collaboration between the clusters (2/2)

Common website

- links to
  - individual cluster pages
  - earlier common position papers

Preparation of joint (chapters of)

project proposals, e.g.

- OSCARS
- GO-Trials
- EVERSE
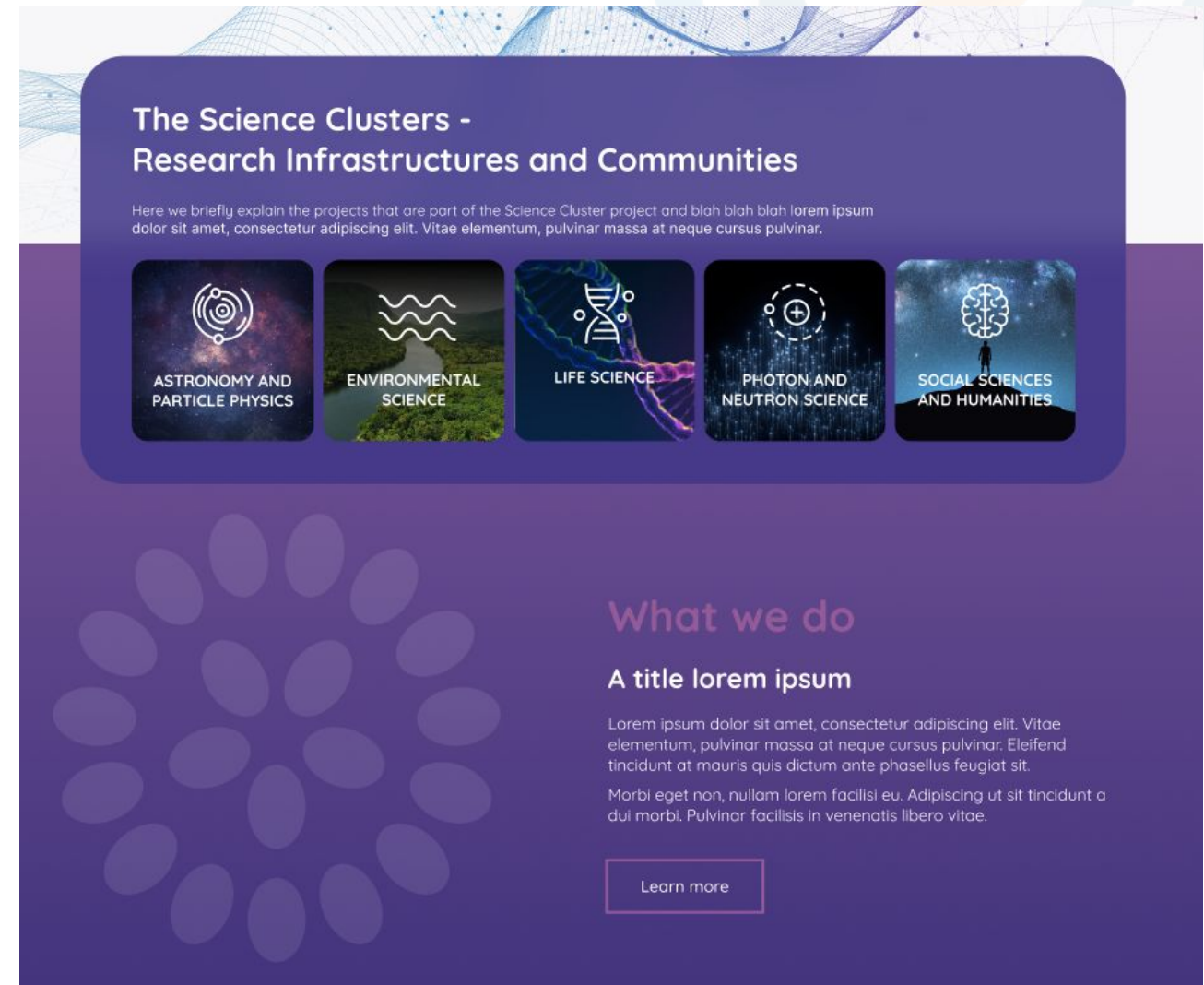
The impact of cluster coordination for the SSH Open Cluster

- Preparation of joint project proposals, specifically **OSCARS**

Call HORIZON-INFRA-2023-EOSC-01-01 ([link](#))

Call topic: "Build on the science cluster approach to ensure the uptake of EOSC by research infrastructures and research communities"

- consolidation of cluster activities
- common solutions for common problems
  - alignment of workflows
  - focus on complementarity, avoiding duplication
- establishment of thematic competence centres (training, data stewardship, etc.)
- cascading grants budget (18 Meuro)
- Promotion of /visibility of thematic contributions to RI / EOSC landscape
- Furthering the interoperability of data and services across clusters
- Liaison with relevant stakeholders to monitor/influence/etc. the landscape dynamics

SCIENCE·CLUSTERS.eu
Research Infrastructures for Open Science

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3.b ATRIUM *(Toma Tasovac, DARIAH)*

- **Advancing FronTier Research In the Arts and hUManities** (ATRIUM)

- HORIZON-INFRA-2023-SERV-01: 10 million EUR, 4 years, starting January 1st

- Core Partners: **DARIAH** (coordinator), **ARIADNE**, **CLARIN**, **OPERAS**

- A total of 29 institutions participating, including linked third parties

- Aim: to exploit and strengthen the complementarities between leading RIs in order to provide vastly **improved access to a rich portfolio of state-of-the-art services** across countries, languages, domains and media, with a focus on:

  - improving the **metadata quality** of existing catalogues and repositories; and

  - ensuring the **composability of services** to support complex research workflows.

- Thematically: going *deep* and *wide* at the same time by:

  - consolidating and expanding services, including data services, specifically in the field of **archaeology**,
  - facilitating access to a wide array of essential **text**, **image**, **3D**, **sound-based** and **geospatial** services that benefit a number of other disciplines within the Arts and Humanities

- Training Measures + Transnational Access (TNA) Fellowships will contribute to capacity building and researcher mobility across Europe

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3.c Infra4NextGen *(Rory Fitzgerald, ESS)*

Four-year project will harness outputs from key social science RIs in Europe and other reliable sources to support the aims of the 'Next Generation EU' programme and inform EU youth policy.

Virtual access will be provided to the outputs through special installations (portals) developed during the project. The core of the proposal is a set of existing research 'services', which will be repurposed and customised to focus directly on the five themes: Make it Green; Make it Digital; Make it Healthy; Make it Strong; and Make it Equal.

Specific aims:

1) consolidate, harmonise and summarise existing data and services according to the NextGenEU and youth policy topic areas
2) ensure better visibility of existing RI data and services relevant to this EU priority and provide access to them
3) engage key stakeholders in the development of this work whilst ensuring youth voices are clearly heard
4) allow young Europeans to engage with the themes of future generation in a data-led environment
5) better equip researchers and others to exploit existing and newly emerging data to help shape the future generation of society
6) ensure the visibility of the results from Infra4NextGen amongst the residents and citizens of Europe

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3.c Infra4NextGen *(Rory Fitzgerald, ESS)*

For each area, the consortium will work collaboratively to produce seven sets of resources:

- A searchable inventory of relevant variables drawn from multiple cross-national datasets;
- Analytical summaries, suitable for policy makers and analysts new to the field, as well as interactive resources available through the project portal;
- Harmonised and merged extracts from these datasets that reduce the burden on analysts and increase sample sizes;
- New data collected through the ESS's established CRONOS web panel infrastructure. Eleven countries will field five waves of the panel, each one dedicated to a NextGenEU theme.
- Free and rapid access to the data will be available through the CRONOS portal alongside analytical summaries;
- In-person and virtual deliberative forums with young people (aged 18-34) in four countries covering the five Next Generation EU' themes
- An educational tool (E-NextGen) channelling our data for use in classrooms and by the general public;
- Comprehensive training materials related to all project outputs.

3.c Infra4NextGen *(Rory Fitzgerald, ESS)*

Project Details

- 4 year project starting 1 March 2024
- Budget €9.9 Million
- Coordinator is ESS ERIC
- ESS ERIC, CESSDA ERIC, GGP and EVS core RIs in the project
- 32 partners in total from access the ERA
- Each policy area has a lead academic to direct the content of the activities
- Policy focused advisory board and a youth board

3.d OSTrails *(Daan Broeder, CLARIN)*

Call id	INFRA-2023-EOSC-01-03 / Enabling an operational, open and FAIR EOSC ecosystem	Duration	36 months
Full project name	Open Science Plan-Track-Assess Pathways (OS-Trails)	Summary	OSTrails aims to advance processes and instruments for Planning, Tracking, and Assessing scientific knowledge production beyond state-of-the art, working with various national and thematic contexts, improving existing infrastructure, and connecting key components. For the Plan stage, OSTrails aims to increase the efficacy of Data Management Plans, turning them from static narratives to living, interconnected "machine actionable" resources, making them the instrument of choice for improving quality of RDM. For the Track stage, OSTrails is set to establish an open, interoperable and high-quality ecosystem of Scientific Knowledge Graphs,enriching them to become evidence of communities' FAIR implementations. For the Assess stage, OSTrails aims to deliver modular and extendable FAIR tests, towards "machine actionable" metrics, complemented by user guidance embedded in tools assisting any stage of research life cycle. Effort is spread over a number of infrastructure planning & building tasks and a large number of Pilots, the last both from thematic and from national organisations.
Coordinator	OpenAIRE AMKE	Overall budget	940 PMs
SSH node (#PMs)	CLARIN ERIC (20), CLARIN/CNR/ILC (7), CLARIN/KNAW-HuC-DI (12), DARIAH/CLARIN/OEAW (13), CESSDA ERIC (12), CESSDA/TAU (12), CESSDA/UKDS (7)	Role SSH node(s)	The SSH nodes will similarly to and in collaboration with the other clusters' nodes work towards - Connecting their rich metadata catalogues and suitable key infra components to the ecosystem of SKGs. - Improving the current community specific FAIR testing, enhancing FAIR testing with guidance CLARIN ERIC leads WP5 (Community Engagement)

3.e EOSC Beyond *(John Shepherdson, CESSDA)*

EOSC Beyond will deliver an enhanced version of the EOSC Platform (at TRL 7)

- Advance Open Science and innovation in research by providing new EOSC Core capabilities
- Allow scientific applications to integrate and compose multiple EOSC Resources from national, regional and thematic EOSC Nodes.

Innovate current EOSC Core Services:

- Catalogues, Marketplace, AAI Federation, Monitoring, Accounting …

Establish a network of pilot EOSC Nodes

- National/Regional/Thematic

Create 3 new EOSC Core Services:

- Integration Suite (portfolio of software adapters)
- Execution Framework (for composability and deployment of resources)
- Core Innovation sandbox

Interoperability between EOSC and Data Spaces (SIMPL)

Text courtesy of Diego Scardaci (EGI)

3.e EOSC Beyond *(John Shepherdson, CESSDA)*

Budget: 10 Million, **Start:** April 2024, **Duration:** 36 mo, **Coord:** EGI Foundation, **Partners:** 33

CESSDA involvement:

Task 5.5, 6.5 Release management and Software Quality Assurance [M1-M18, M19-M36], **CESSDA 2x 4PM**. *Establish processes and toolchains to ensure best practices for software development and release are followed*

Task 15.1 Requirements gathering and technical support to the Data Spaces and EOSC Nodes [M01-M18] **CESSDA 1PM, EKKE 1PM**. *As per title*

Task 15.2 Co-design activities and technical integrations of the Data Spaces and EOSC Nodes [M01-M18] **CESSDA 1PM, EKKE 1PM**. *Support the EOSC Nodes and Data Spaces towards integration with the EOSC core services, the EOSC Integration Suite and the EOSC Execution Framework*

Task 16.9 Testing [M19-M36], **CESSDA 3PM, EKKE 4PM, TARKI 2PM**. *Integrate domain-specific services for SSH researchers into EOSC, generate FAIR metadata*

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3.f EVERSE *(Franciska de Jong, CLARIN)*

Call id	INFRA-2023-EOSC-01-02 / eInfrastructure and Digital Services	Duration	36 months
Full project name	European Virtual Institute for Research Software Excellence (EVERSE)	Summary	EVERSE aims to create a framework for research software and code excellence, collaboratively designed and championed by the research communities, in pursuit of building a European network of Research Software Quality and setting the foundations of a future Virtual Institute for Research Software Excellence.
Coordinator	CERTH	Overall budget	794 PMs
SSH node (#PMs)	LINDAT/CLARIAH-CZ (54)	Role SSH node	LINDAT/CLARIAH-CZ is involved in the EVERSE project in the domain of software development in the following areas: language resources, natural language processing tools, repository solutions and tools for research in Digital Humanities, and it represents connection to the Science Cluster SSHOC, CLARIN ERIC, DARIAH ERIC, and the EHRI EU communities.