SSHOC: Realising the Social Sciences and Humanities for the European Open Science Cloud

EOSC Festival, October 2022

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Project

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
(20 beneficiaries + 27 LTPs + **6 onboarded SSH RIs**)

SSH ESFRI Landmarks and Projects
& international SSH data infrastructures

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

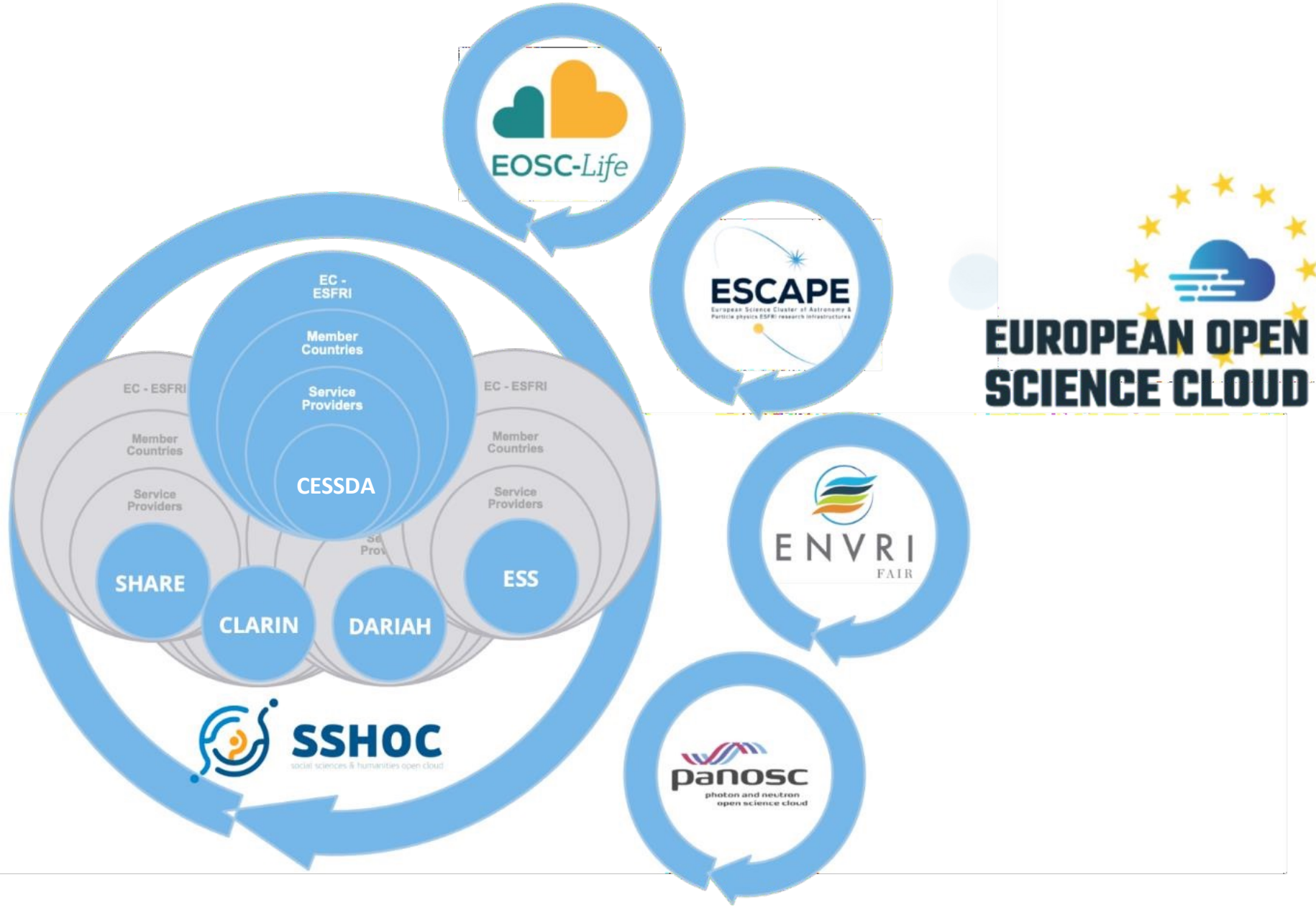
Project budget:
€ 14,455,594.08

Project website:
www.SSHOpenCloud.eu

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

Context



Expected impact

The Social Sciences and Humanities are seamlessly integrated in the European Open Science Cloud

Availability of an EU-wide, easy-to-use SSH Open Marketplace, where tools and data are openly accessible

EU-wide availability of high quality “cloud ready” SSH tools and high quality SSH data

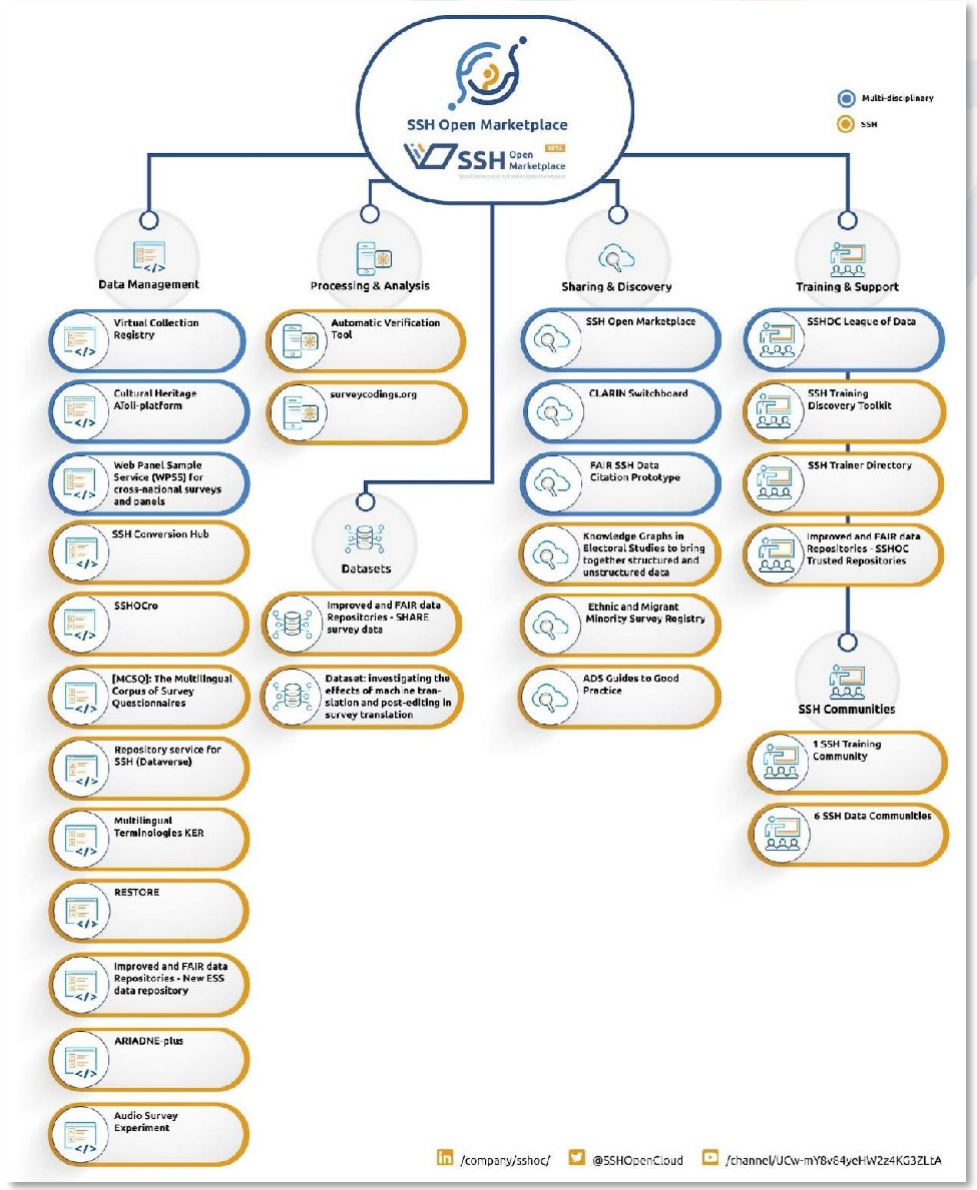
EU-wide availability of trusted and secure access mechanisms for SSH data, conforming to EU legal requirements

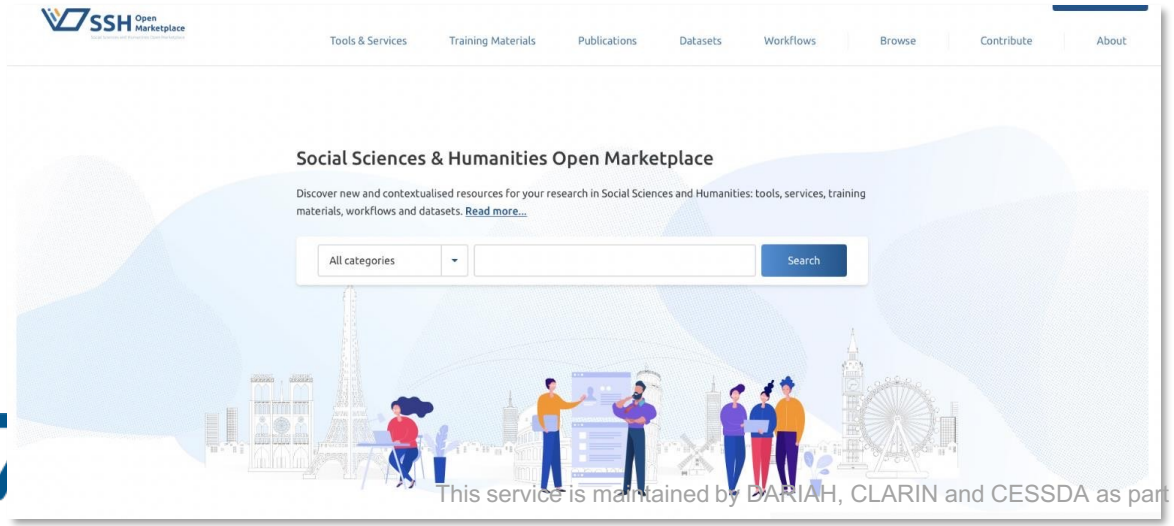
State of the art Research Infrastructure in several pilot domains advanced trough dedicated SSH data pilots cluster projects

Maximising reuse through Open Science and FAIR principles (standards, common catalogue, access control, semantic techniques, training)

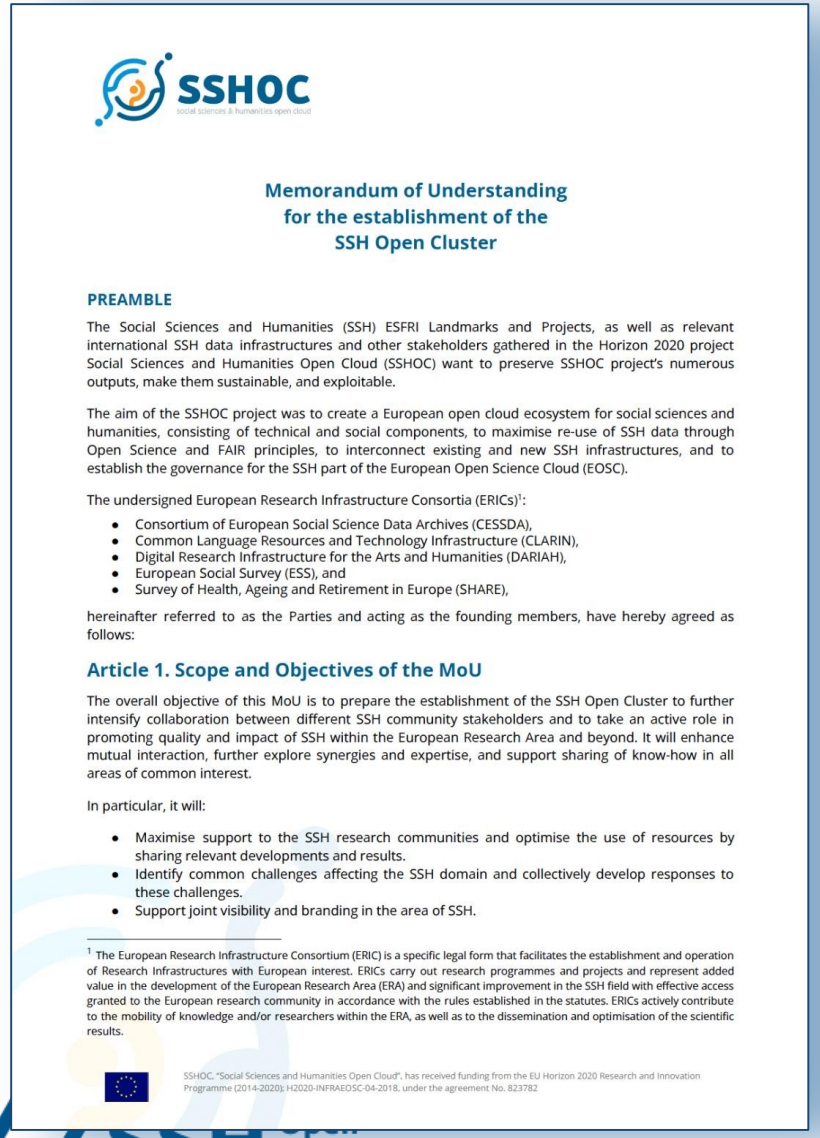
Key Exploitable Results

- 33 tools & services are defined as Key Exploitable Results, as they are available for further research activities after the end of the SSHOC 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 are being onboarded to the EOSC Portal.





SSH Open Cluster, future collaborations & MoU



SSHOC
social sciences & humanities open cloud

Memorandum of Understanding for the establishment of the SSH Open Cluster

PREAMBLE

The Social Sciences and Humanities (SSH) ESFRI Landmarks and Projects, as well as relevant international SSH data infrastructures and other stakeholders gathered in the Horizon 2020 project Social Sciences and Humanities Open Cloud (SSHOC) want to preserve SSHOC project's numerous outputs, make them sustainable, and exploitable.

The aim of the SSHOC project was to create a European open cloud ecosystem for social sciences and humanities, consisting of technical and social components, to maximise re-use of SSH data through Open Science and FAIR principles, to interconnect existing and new SSH infrastructures, and to establish the governance for the SSH part of the European Open Science Cloud (EOSC).

The undersigned European Research Infrastructure Consortia (ERICs)[1]:

- Consortium of European Social Science Data Archives (CESSDA),
- Common Language Resources and Technology Infrastructure (CLARIN),
- Digital Research Infrastructure for the Arts and Humanities (DARIAH),
- European Social Survey (ESS), and
- Survey of Health, Ageing and Retirement in Europe (SHARE),

hereinafter referred to as the Parties and acting as the founding members, have hereby agreed as follows:

Article 1. Scope and Objectives of the MoU

The overall objective of this MoU is to prepare the establishment of the SSH Open Cluster to further intensify collaboration between different SSH community stakeholders and to take an active role in promoting quality and impact of SSH within the European Research Area and beyond. It will enhance mutual interaction, further explore synergies and expertise, and support sharing of know-how in all areas of common interest.

In particular, it will:

- Maximise support to the SSH research communities and optimise the use of resources by sharing relevant developments and results.
- Identify common challenges affecting the SSH domain and collectively develop responses to these challenges.
- Support joint visibility and branding in the area of SSH.

[1] The European Research Infrastructure Consortium (ERIC) is a specific legal form that facilitates the establishment and operation of Research Infrastructures with European interest. ERICs carry out research programmes and projects and represent added value in the development of the European Research Area (ERA) and significant improvement in the SSH field with effective access granted to the European research community in accordance with the rules established in the statutes. ERICs actively contribute to the mobility of knowledge and/or researchers within the ERA, as well as to the dissemination and optimisation of the scientific results.

SSHOC, "Social Sciences and Humanities Open Cloud", has received funding from the EU Horizon 2020 Research and Innovation Programme (2014-2020); H2020-INFRAEOSC-04-2018, under the agreement No. 823782

- SSH ESFRI Landmarks,
- SSH ESFRI Projects,
- relevant international SSH data infrastructures,
- other stakeholders,

want to preserve Social Sciences and Humanities Open Cloud (SSHOC) project's numerous outputs - make them sustainable and exploitable.

MoU objectives

Report an issue | Sign in

SSH Open Marketplace

Tools & Services | Training Materials | Publications | Datasets | Workflows | Browse | Contribute | About

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...

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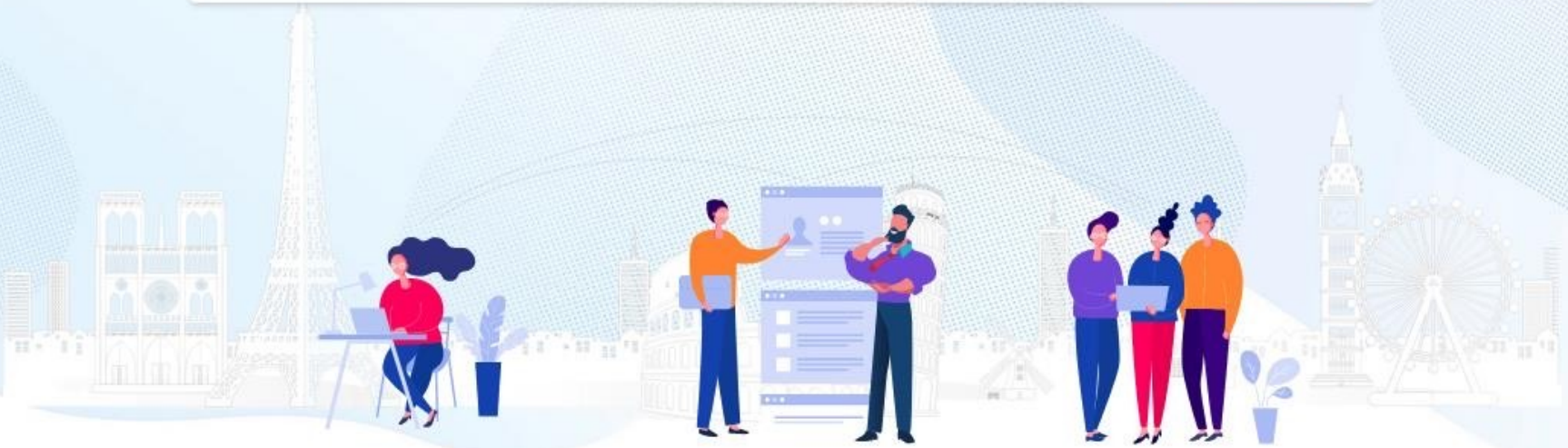


marketplace.sshopencloud.eu

The SSH Open Marketplace is maintained and will be further developed by three European Research Infrastructures - DARIAH, CLARIN and CESSDA - and their national partners. It was developed as part of the "Social Sciences and Humanities Open Cloud" SSHOC project, European Union's Horizon 2020 project call H2020-INFRAEOSC-04-2018, grant agreement #823782.

cessda | CLARIN | DARIAH-EU

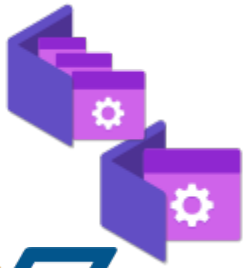
Content types (see about/data-population)

- **Tools & services** Materials or products used to perform activities: Desktop clients solutions (to be installed locally), Browser-based or command-line based resources, Mobile apps, Programming libraries or APIs, Data catalogues

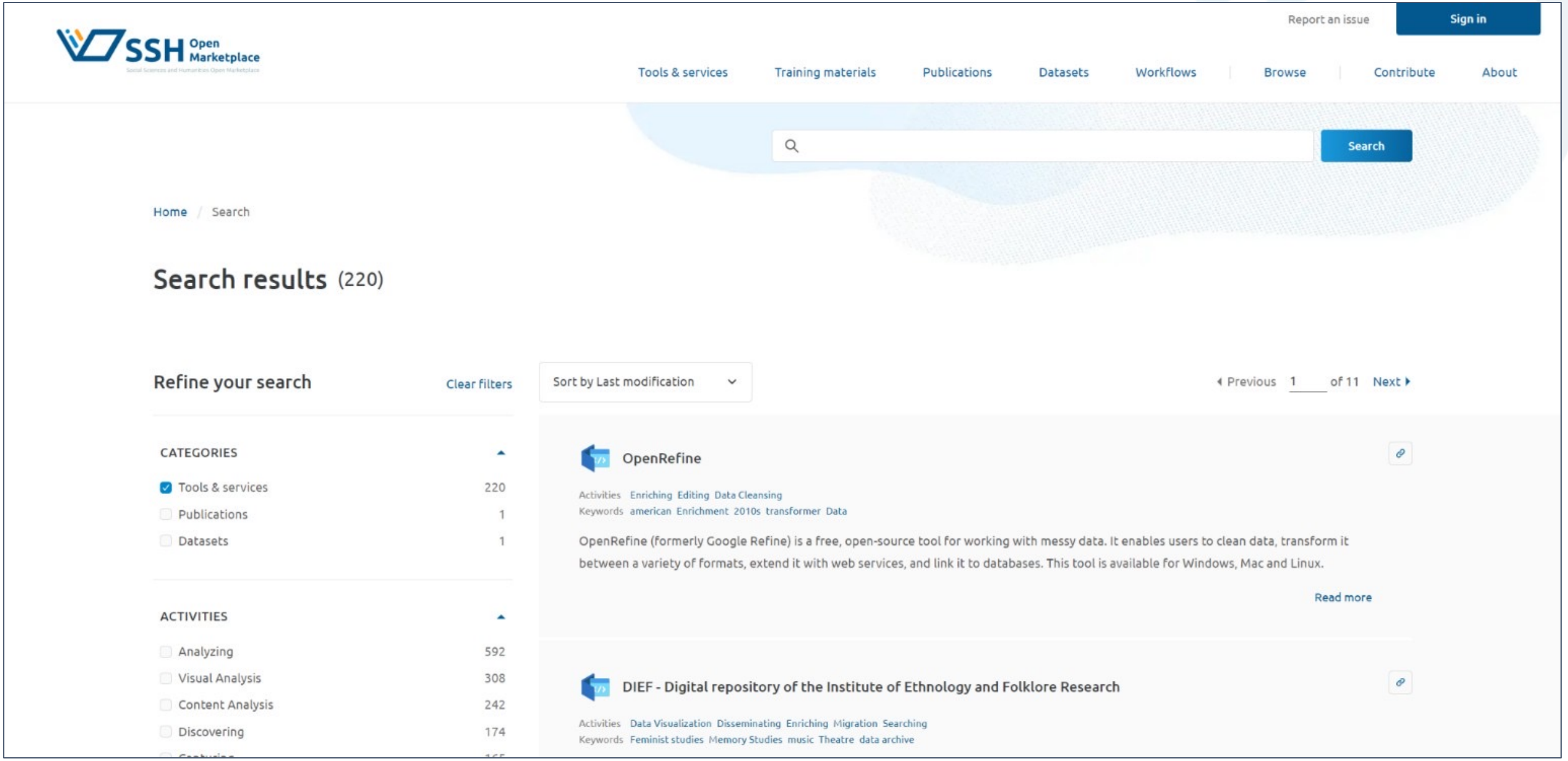
- **Training materials** Tutorials, lessons or didactic resources explaining how to perform an action or highlighting the learning outcomes one would gain from engaging with the material.

- **Publications** Research results published in academic journals or repositories. The SSH Open Marketplace references only publications that can be connected to other resources and is not an exhaustive collection of papers.

- **Datasets** Single digital objects or collections of data, records, or information that is kept as a persistent unit of information in the knowledge generation process. Datasets are used as evidence for some phenomena.



- **Workflows** Sequences of operation/steps performed on research data during their lifecycle. Workflows can be achieved by using diverse tools and facilities, and useful resources are connected to each step.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Search results (220)
Refine your search
Clear filters
Sort by Last modification
Previous 1 of 11 Next
CATEGORIES
Tools & services 220
Publications 1
Datasets 1
ACTIVITIES
Analyzing 592
Visual Analysis 308
Content Analysis 242
Discovering 174
OpenRefine
Activities Enriching Editing Data Cleansing
Keywords american Enrichment 2010s transformer Data
OpenRefine (formerly Google Refine) is a free, open-source tool for working with messy data. It enables users to clean data, transform it between a variety of formats, extend it with web services, and link it to databases. This tool is available for Windows, Mac and Linux.
Read more
DIEF - Digital repository of the Institute of Ethnology and Folklore Research
Activities Data Visualization Disseminating Enriching Migration Searching
Keywords Feminist studies Memory Studies music Theatre data archive

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Self-Repetition and East Asian Literary Modernity, 1900-1930

Keywords fiction literature cultural-analytics japan china

Corpus metadata, extracted feature sets, stoplists, and Python and R code associated with this study.

Read more

Stable Random Projection

Keywords cultural-analytics machine-learning

Replication material and code libraries for the paper "Stable Random Projection." Frozen version of files available online at https://github.com/bmschmidt/SRP-replication. Binary files hosted at Northeastern University

Read more

Dataset: Faces extracted from Time Magazine 1923-2014

Keywords images cultural-analytics machine-learning magazines gender

The data presented here consists of three parts: Dataset 1: In this set, we extract 327,322 faces from our entire collection of 3389 issues, and automatically classified each face as male or female. We present this data as a single table with columns identifying the date, issue, page number, the coordinates identifying the position of the face on the page, and classification (male or female). The coordinates identify

Steps (9)

1 **Define the characteristics of the outcome**

2 **Define the characteristics of the image**

3 **Survey existing experiences**

4 **Choose engine based on the type of the content**

5 **Training the model**

6 **Test on a subset and assess quality**

7 **Correct output**

8 **Re-train the model with corrected output**

9 **Produce OCR output in standardized format**

Expand

4 Choose engine based on the type of the content

Collapse

If you choose a classic commercial OCR engine like ABBYY FineReader, the customization would be limited. Others tools allow for more options (training a model for instance). It may be interesting also to use separate tools to perform different steps of the recognition process (Layout and character recognition)...

Related (5)

Report on the comparison of Tesseract and ABBYY FineReader OCR engines

The aim of this report is to compare OCR accuracy of two well known OCR engines: Tesseract 3.0.1 and FineReader10...

Read more

Tools for text digitisation

More than 250 state-of-the-art tools for text digitisation. 61 results in group text recognition

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Tesseract OCR

This package contains an OCR engine - libtesseract and a command line program - tesseract. Tesseract 4 adds a new\...

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Transkribus

Transcribe. Collaborate. Share... ...and benefit from cutting edge research in Handwritten Text Recognition!

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Språkbanken

A free cloud service for OCR The project En fri molntjänst för OCR \`A free cloud service for OCR', funded by the...

Read more

SSH Open Marketplace Governance “scheme”

3 ERICs service agreement

DARIAH, CLARIN & CESSDA signing a collaborative and **binding agreement** and giving resources to maintain and further develop the SSH Open Marketplace after the end of the SSHOC project.

Service provision ensured by ACDH-CH and PSNC

Research communities / User contributions

The SSH Open Marketplace is designed as to support community curation.
Contributors can add or enrich existing content via a user-friendly interface

Hands on sessions are them a in means envisioned to support contributions.

Editorial Board & the day-to-day operations

Moderators and administrators who take care of the maintenance, data quality and curation of the SSH Open Marketplace. They are also in charge of the community engagement.

Clara Petitfils, Suzanne Dumouchel, Nicolas Larrousse, Edward J. Gray, Laure Barbot, Arnaud Roi, Matej Ďurčo, Klaus Illmayer, Stefan Buddenbohm, & Tomasz Parkola. (2021). D7.5 Marketplace - Governance. https://doi.org/10.5281/zenodo.5608487

PSNC contribution to the SSH Open Cluster and SSH part of EOSC

Collaboration

- ➔ Represented in the Joint Research Committee of the DARIAH-EU
- ➔ Actively involved in DARIAH-PL e-Infrastructure developments (https://lab.dariah.pl/)
- ➔ Founding member of the Time Machine initiative (https://www.timemachine.eu/)
- ➔ More that two decades of actions in the cultural heritage and digital humanities (Europeana, IMPACT Centre of Competence, Open Preservation Foundation, DataCite)

DARIAH-EU

Time Machine

Open Preservation Foundation

europeana

DARIAH-PL

DataCite

impact digitisation.eu

Thank you!

https://marketplace.sshopencloud.eu/

sshopenmarketplace@sshopencloud.eu

tparkola@man.poznan.pl

SSH Open Marketplace

This service is maintained by DARIAH, CLARIN and CESSDA as part of the SSH Open Cluster