Science clusters contributions to a (minimally) viable European Open Science Cloud



EOSC Core Functionalities *example: AAI*

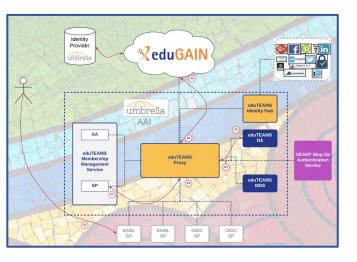
ESCAPE AAI is federated with EOSC AAI

- also shown to work with EGI-checkin & FENIX HPC AAI
- ESCAPE AAI is a hybrid allowing our "legacy" RIs to continue to use X.509 as well as tokens



LS LOGIN delivered in production by EOSC-Life

- Connect existing LS RI AAI systems with EOSC AAI
- Security features for sensitive data (incl GA4GH standards)
- XX users; YY organisations











EOSC-Life

Exchange : reusable services, data and scientific analysis tools

- ESCAPE data lake and virtual research environment
 - Consistent toolset across experiments reduce complexity and drive long-term sustainability
- EOSC-Life: reusable and extendable data, interoperability and analysis services
 - Adopted for Horizon Europe / Pandemic preparedness and Cancer Mission
- SSHOC Marketplace
 - Catalog of reusable services for Social sciences and humanities
- ENVRI-Hub
 - Catalogue of services and collaboration platform for Environmental Sciences

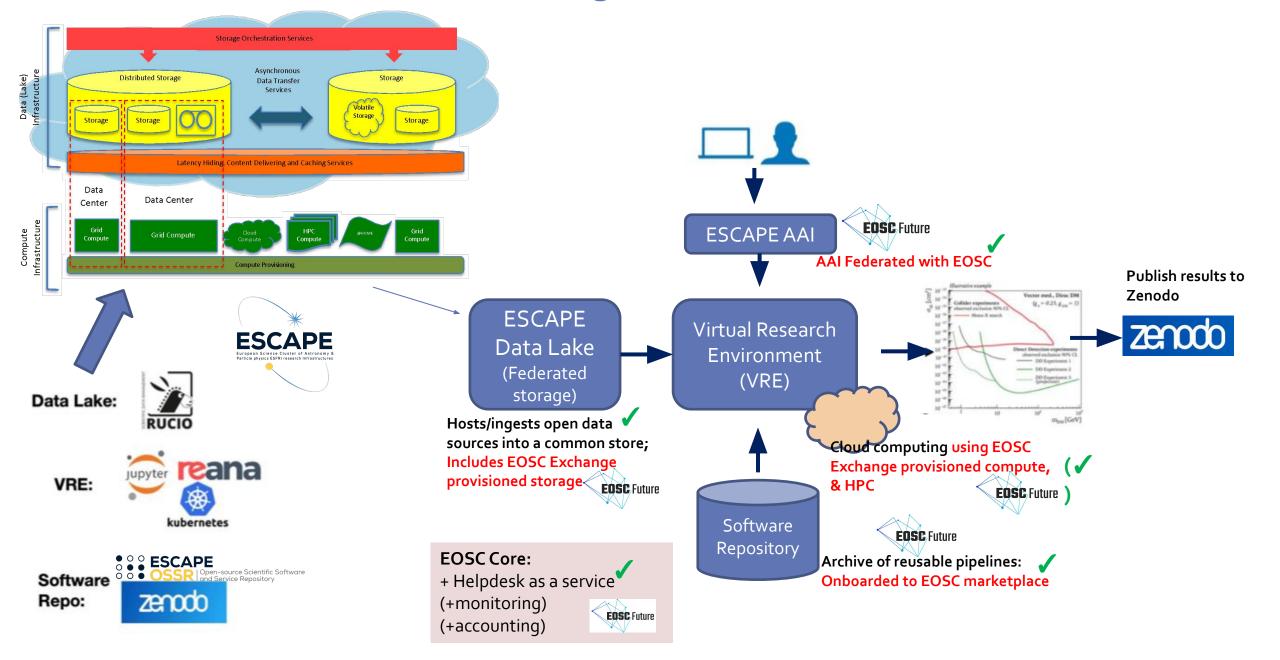








ESCAPE tools and EOSC integration









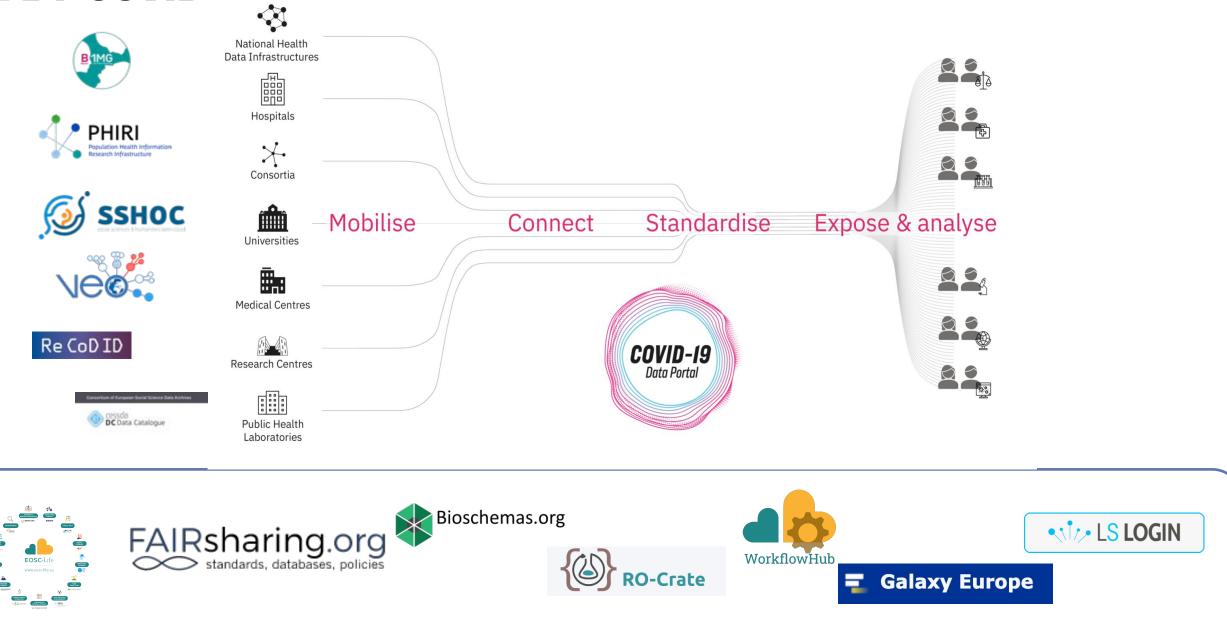


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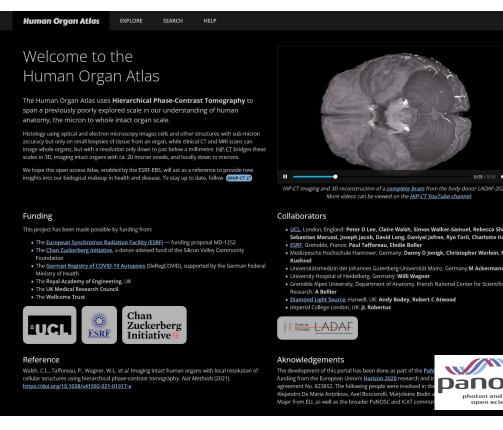
EuroScienceGateway

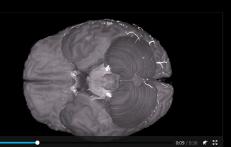


https://www.covid19dataportal.org/



Science clusters bring data to the EOSC





HiP-CT imaging and 3D reconstruction of a complete brain from the body donor LADAF-2020-31. More videos can be viewed on the HIP-CT YouTube channel.

 UCL, London, England: Peter D Lee, Claire Walsh, Simon Walker-Samuel, Rebecca Shipley, Sebastian Marussi, Joseph Jacob, David Long, Daniyal Jafree, Ryo Torii, Charlotte Hagen Medizinische Hochschule Hannover, Germany: Danny D Jonigk, Christopher Werlein, Mark

 Universitätsmedizin der Johannes Gutenberg-Universität Mainz, Germany:M Ackermann University Hospital of Heidelberg, Germany: Willi Wagner

Diamond Light Source, Harwell, UK: Andy Bodey, Robert C Atwood

agreement No. 823852. The following people were involved in th Aleiandro De Maria Antolinos, Axel Bocciarelli, Mariolaine Bodin











ParlaMint



ParlaMint – harmonised corpora of parliamentary records in around 20 languages available for the study of public debate about COVID



1 COVID-19 Data Portal About V Tools V FAO Related Resources Viral Sequences Host Sequences Expression Proteins Networks Cohorts More V

Social sciences & humanities Accelerating research through data sharing Search Search Examples: ..

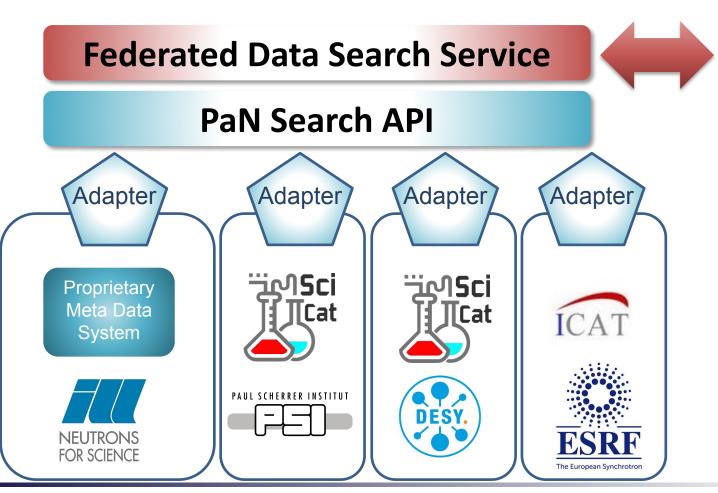
Showing 15 of 524 in All > Social sciences & humanities > CESSDA catalogue

Data types		
All Social sciences & humanities (524) CESSDA catalogue (524)	ID	Name
	10.5255/UKDA-SN-855317	Facilitating the Public Response to COVID-19 by Harnessing Group Processes, 2020-2021
	10.5255/UKDA-SN-855604	Multi-metric Evaluation of the Effectiveness of Remote Learning in Mechanical and Industrial Engine
	10.5255/UKDA-SN-8794-3	Quarterly Labour Force Survey, December 2020 - February 2021
	10.5255/UKDA-SN-854795	Interviews with UK School Staff during the COVID-19 Pandemic, 2020
	10.7802/2399	2020 ELWar Croatian and Serbian Election Survey

PaN Search API with Federated Search Portal







// panosc	covid Q 48 documents found
ty v v v v v v v v v v v v v v v v v v	C ² 10.15151/ESRF-ES-436648953 0.000 Insight into effects of COVID-19 on human heart and lung tissue at sub-cellular level COVID-19 affects multiple vital organs and leads to drastic changes in tissue architecture not only in the lung but also in the heart. The understanding of these alterations is currently very limited and no high Released on May 7th 2024 by ESRF
ent Wavelength	C ² 10.34967/8163 0.990 20202213 This is an addition to Fast-track Proposal #20202210 (SISSI/AFM), please process the proposals combined. COVID-19 related project in conjunction with structural lung architecture investigations at Released on January 5th 2022 by CERIC
orature max of K max of Pa 0 max of Pa 0	C210.15151/ESRF-ES-193743898 0.587 mx2298 COVID-19: structural studies of membrane protein E of SARS-CoV-2 Released on May 29th 2023 by ESRF

https://data.panosc.eu

Find data on: *covid, alzheimers, protein xyz, dinosaurs, batteries, …*

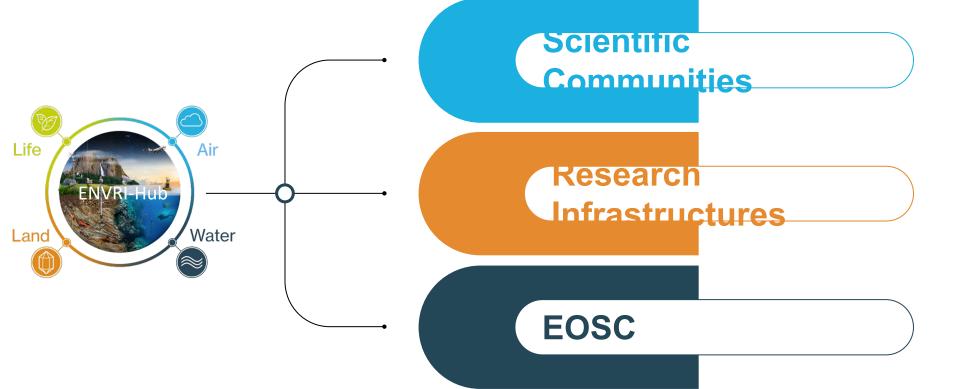


PaNOSC and ExPaNDS projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreements 823852 and 857641, respectively.

Science clusters contribute users to the viable European Open Science Cloud







Experienced users of ENVRI products access data portals of RIs directly via RI portals or APIs

RIs share knowledge and training resources across scientific domains and foster evolution of RIs

EOSC users access ENVRI ecosystems through the platform ENVRI-Hub guided by rich metadata



Users



Project lead: Emma Karoune, Historic England https://open-phytoliths.github.io/FAIR-phytoliths/



Project team: Ralf Seyfarth, Anna Henger, Engy Nasr



https://www.zooniverse.org/projects/hughdickinson/ superwasp-black-hole-hunters







Science clusters contributions to a (minimally) viable European Open Science Cloud

