

A universal source code archive serving the scholarly ecosystem



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Software Heritage

THE GREAT LIBRARY OF SOURCE CODE

Inria



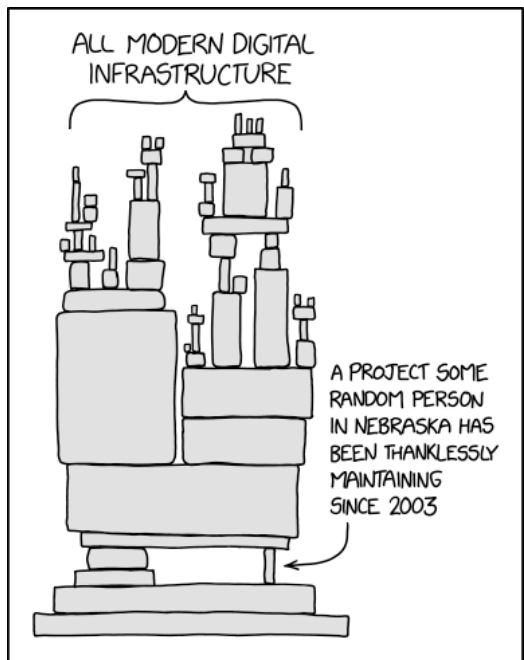
FAIR-IMPACT
Expanding FAIR solutions across EOSC



FAIRCORE4EOSC
Core Components Supporting a FAIR EOSC

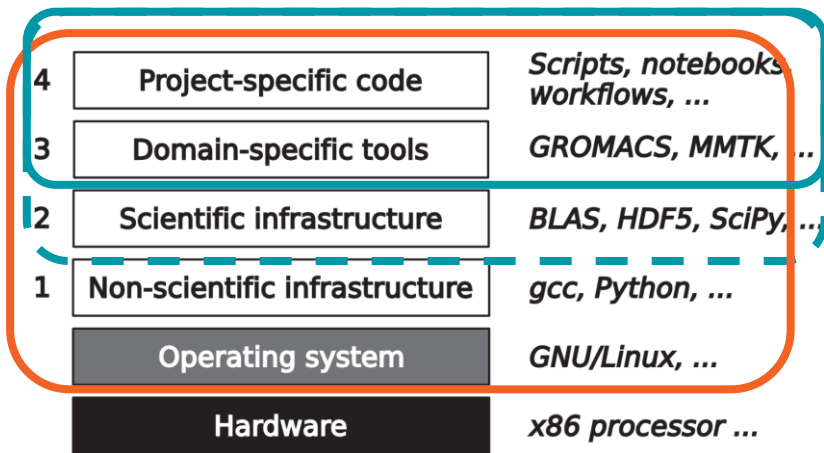
The software stack: More than Research Software

Research Software is a thin layer on top of the global software stack



<https://xkcd.com/2347/>

What's the Software Collapse?



Konrad Hinsien. Dealing With Software Collapse. Computing in Science and Engineering, 2019, 21 (3), pp.104-108. (10.1109/MCSE.2019.2900945). (hal-02117588)

Can be preserved in a:

- [Scholarly Infrastructure](#)
- [Universal Source Code Archive](#)



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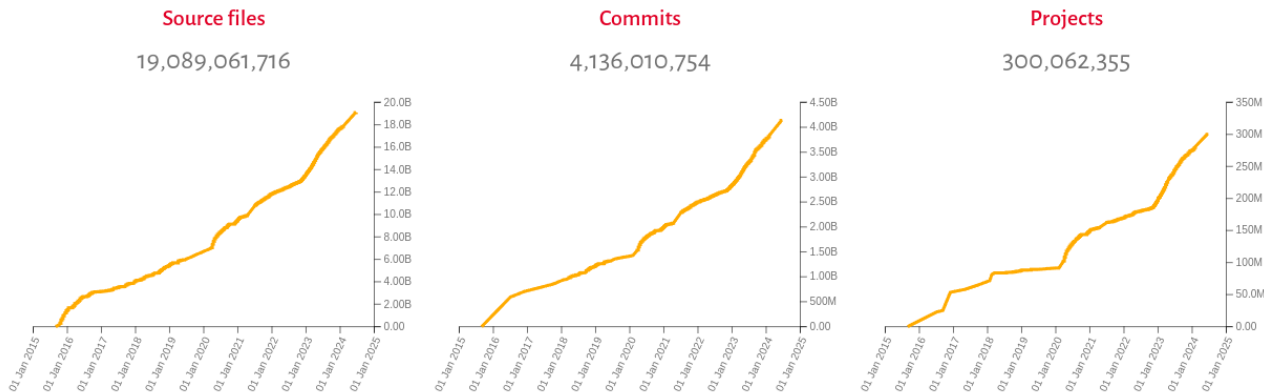
An open infrastructure

to collect, preserve and share *all source code*



Size

As of today the archive already contains and keeps safe for you the following amount of objects:

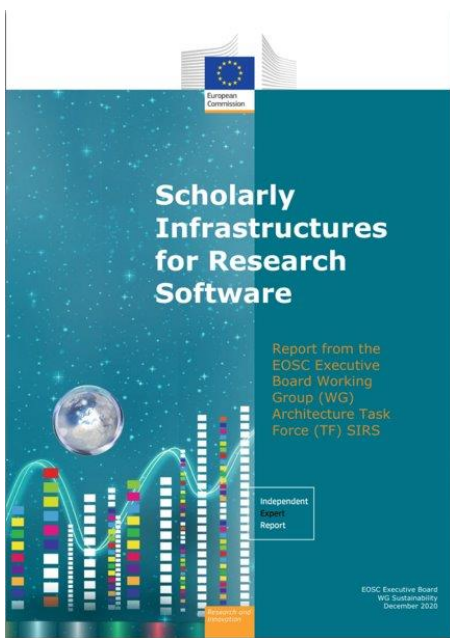


Snapshot: June 16th 2024

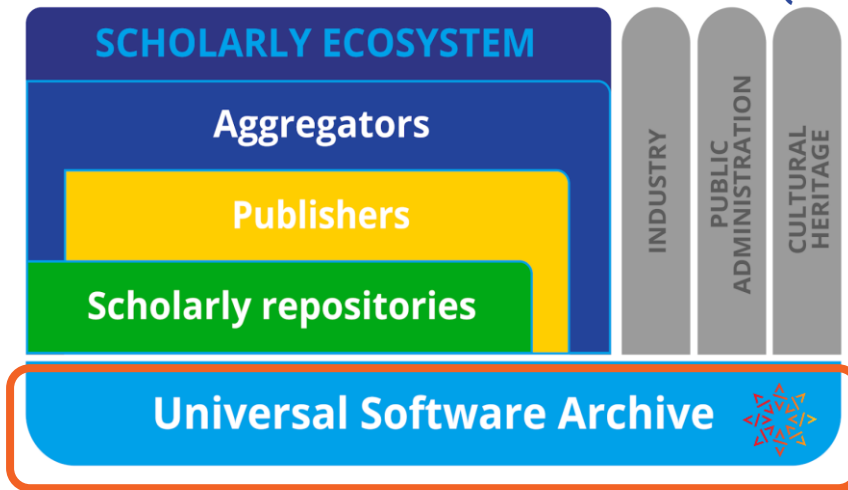
Archive, Reference, Describe and Cite software



Scholarly Infrastructures for Research Software (SIRS)



SIRS report: European Commission, Directorate-General for Research and Innovation, *Scholarly infrastructures for research software : report from the EOSC Executive Board Working Group (WG) Architecture Task Force (TF) SIRS*, Publications Office, 2020, <https://data.europa.eu/doi/10.2777/28598>



Short term recommendations

- Strengthening interactions between
 - Aggregators, publishers, scholarly repositories, and Software Heritage
- Metadata standards & tools
- Generalizing the use of PIDs (extrinsic & intrinsic) => **SWHID**



Implementing an interoperable community driven vision



- The [RSAC components](#) connecting Software Heritage with
 - **Scholarly repositories:** Zenodo (CERN), DANS Dataverse's instance,
 - **Publishers:** Dagstuhl, Episciences
 - **Aggregators:** SwMath, OpenAire & Datacite



- Deploying in 2025 the EOSC mirror of Software Heritage at GRNET



- Maintaining the Research Software MetaData guidelines
 - [RSMD guidelines](#)
- Contributing to the [CodeMeta](#) initiative, towards FAIRer mappings



Collaborating with



Call to action



Software preservation requires a **global** and **coordinated** effort.

*“Policy describes what is required, desired, and incentivised;
infrastructure determines what is possible;
but the community determines how things are done in practice.”*

(Brinkman et al., 2020)

Mutualisation

Sustainability



Curation

Recognition

Open by default