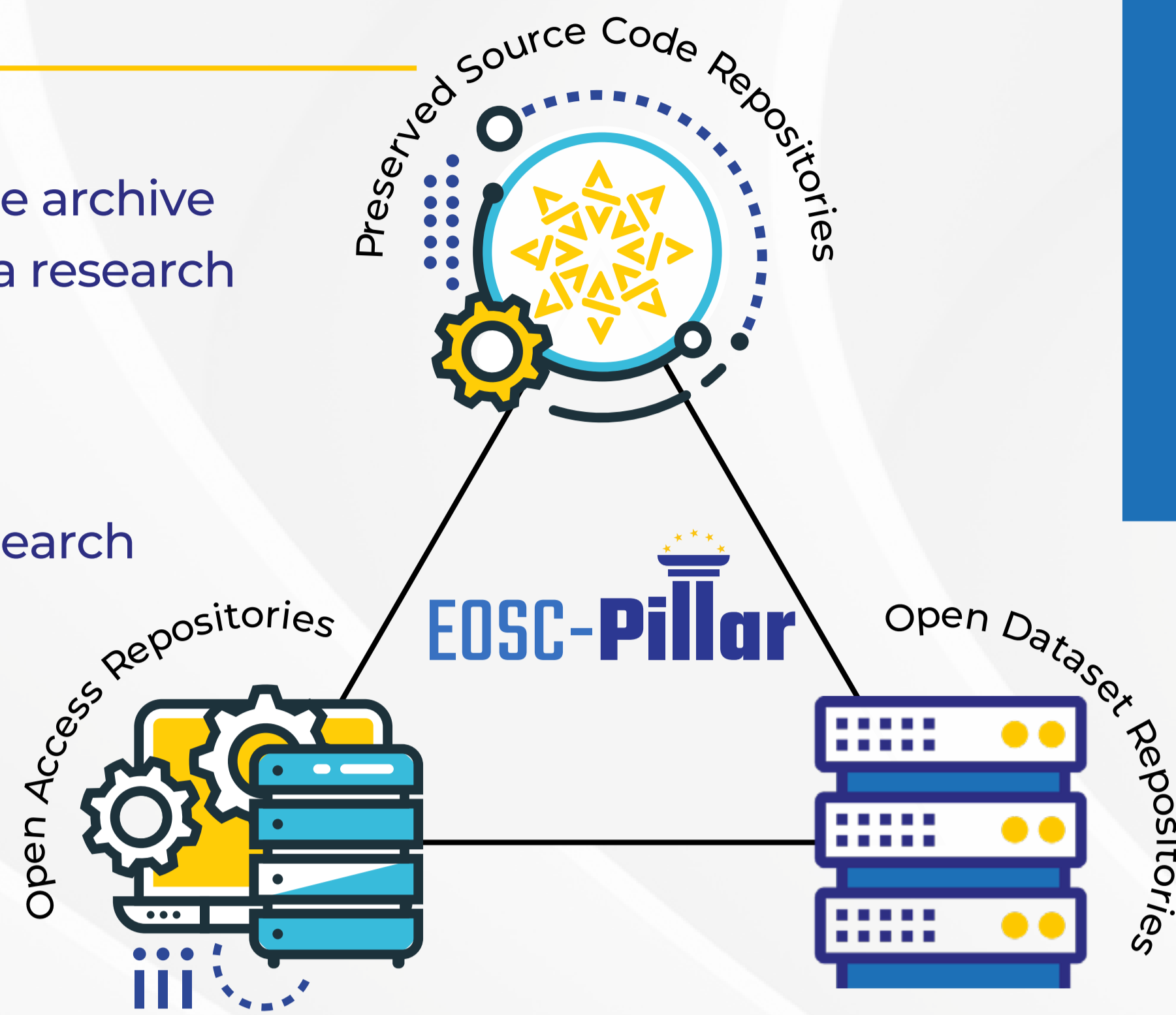


Provide services to EOSC partners

- ★ **Deposit** or Save software source code artifacts in the Software Heritage archive
- ★ Get intrinsic **Persistent Identifiers** to any source code artifact used in a research project available the entire body of
- ★ **Retrieve** any source code artifact used in a research project
- ★ **Describe** source code artifacts used
- ★ **Ensure** long term preservation of anysource code artifact used in a research project

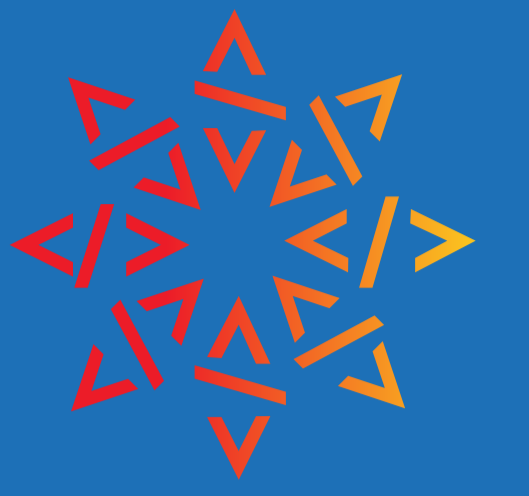
<https://marketplace.eosc-portal.eu/services/software-heritage-archive>



What is Software Heritage?

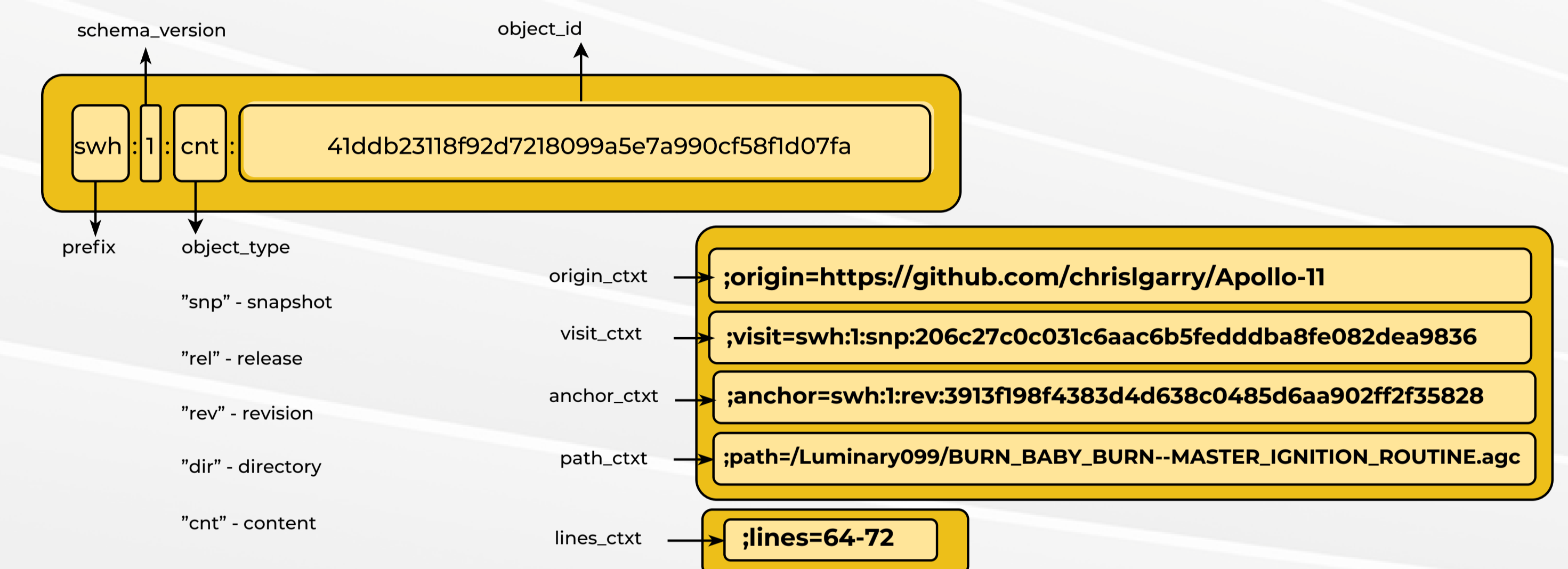
Our mission is to **collect, preserve forever**, and make **publicly available** the entire body of software, in the preferred form for making modifications to it.

<https://softwareheritage.org>



SWHID: persistent intrinsic identifiers for source code artifacts

- ★ **Persistent, unique** and **Intrinsic** identifiers
- ★ Allow reliable cross-reference software source code artifacts in **scientific publications**



<https://swhid.org>

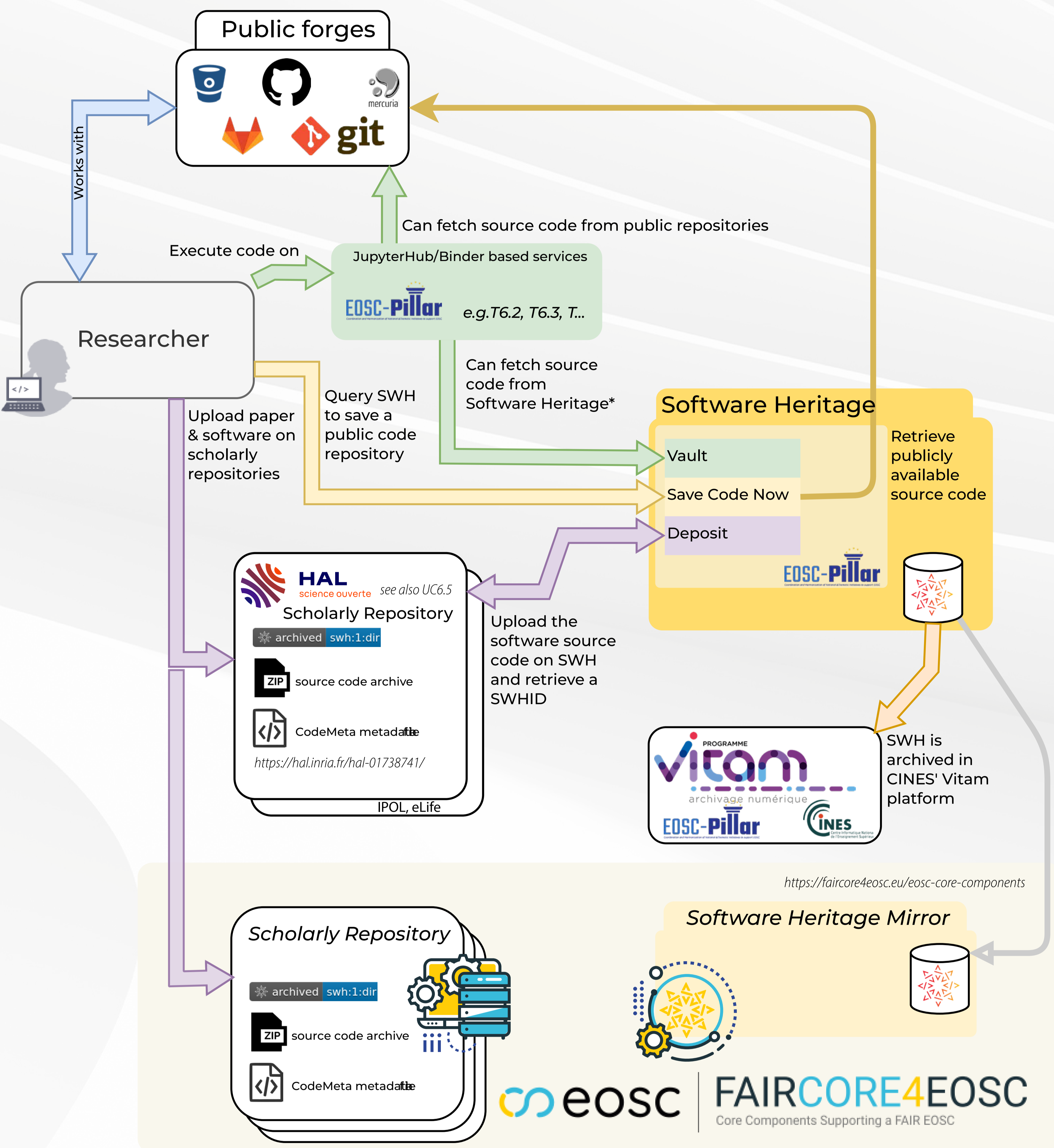
<https://docs.softwareheritage.org/devel/swh-model/persistent-identifiers.html>

APIs: integrate the SWH Archive in your infrastructure

- ★ **Save Code Now** ask SWH to ingest your code repository
- ★ **Deposit** push your organization's code artifacts *with metadata (CodeMeta)* in the SWH Archive (SWORD protocol)
- ★ **Vault** retrieve source code from the SWH Archive from its SWHID (simple directory or full revision history)
- ★ **Search** the SWH Archive for source code artifacts (origin URL or metadata)
- ★ **Resolve** SWHID
- ★ **Explore** the SWH Archive graph

<https://archive.softwareheritage.org/api/>

<https://deposit.softwareheritage.org/>



* feature is still in development

For more details



The Software Heritage project
<https://softwareheritage.org>



UC6.4 description
<https://www.eosc-pillar.eu/use-cases/software-source-code-preservation-reference-access>

Participants



A Pillar for EOSC

- ★ **EOSC SIRS report**
identify the SWH archive key role in the scholarly ecosystem
- ★ **FAIR Core 4 EOSC**
extend the robustness and availability of the SWH Archive for EOSC projects via a new SWH mirror operated by an EOSC partner
develop integration of SWH with more scholarly repositories; ensure proper software identification (SWHID) and long term preservation of source code used in research projects

