OSSR: Application for SciCodes Membership

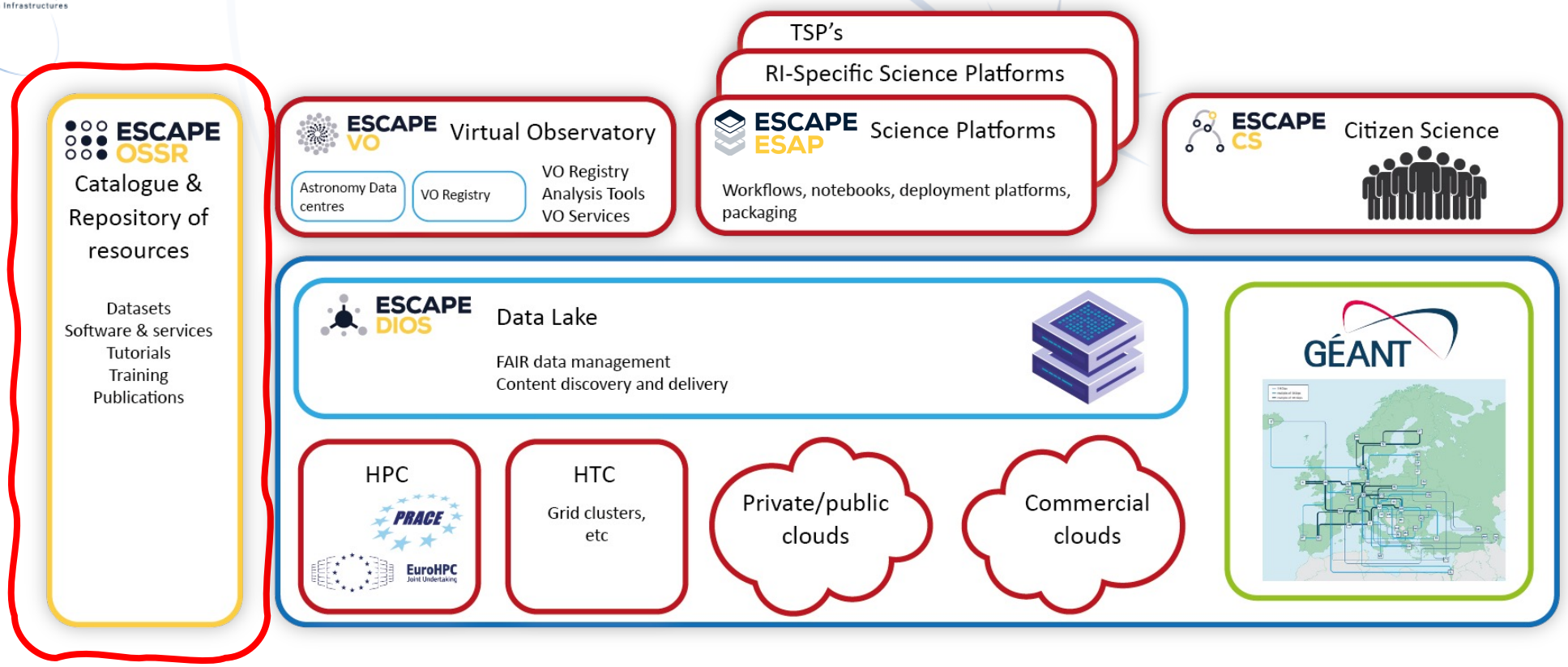
Kay GRAF

ECAP, Erlangen Centre for Astroparticle Physics, Friedrich-Alexander-Universität Erlangen-Nürnberg

on behalf of the OSSR Group

ESCAPE - The European Science Cluster of Astronomy & Particle Physics ESFRI Research Infrastructures has received funding from the European Union's Horizon 2020 research and innovation programme under the Grant Agreement n° 824064.

ESCAPE EOSC cell



OSSR was developed as part of the ESCAPE project (Astro/particle, Particle Physics and Astronomy Research Infrastructures) in the EOSC (European Open Science Cloud)

- servicing the needs of the RIS
- Since 03/2023: ESCAPE is an Open Collaboration

Funded by the European Union's Horizon 2020 - Grant N° 824064

OSSR Aims and Structure

ESCAPE OSSR
Catalogue & Repository of resources

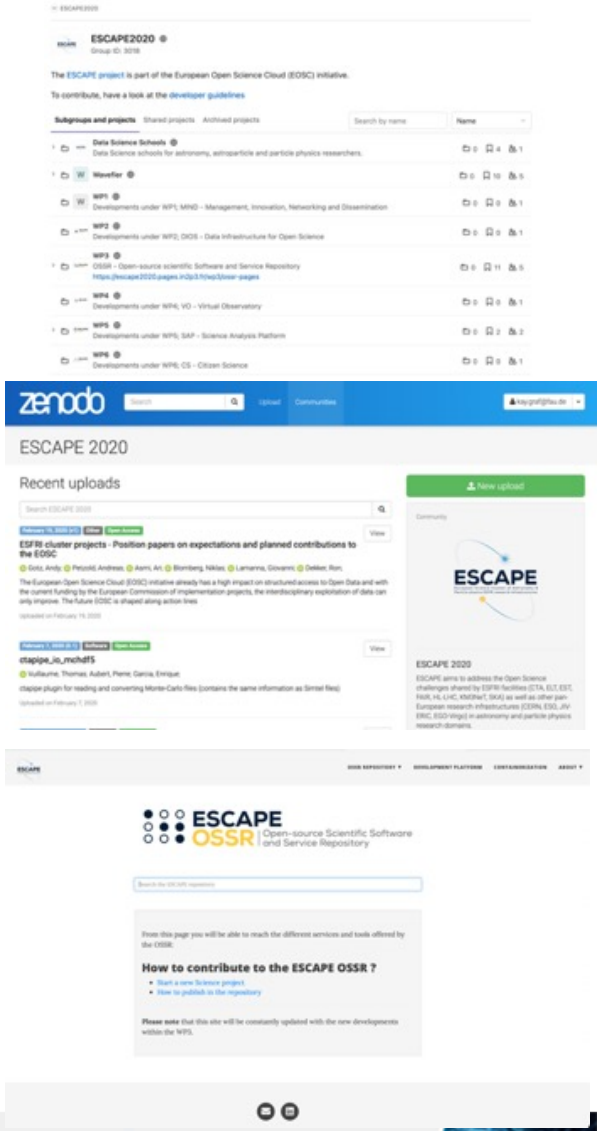
Datasets
Software & services
Tutorials
Training
Publications

The ESCAPE Open-source Scientific Software and Service Repository (OSSR) is a **sustainable open-access repository** to share **scientific software, services** to the **astro-particle-physics-related communities** and enable open science. It is built as a **curated** Zenodo community integrated with **dedicated tools** to enable a complete software life-cycle. The OSSR is fully onboarded into the EOSC explorer.

Development Platform
- Software Development
- Integration & Automation

Repository
- Service Aggregation
- Preservation / Archive
- (link to EOSC)

Landing Page
- Entry point, Link Aggregation
- Search



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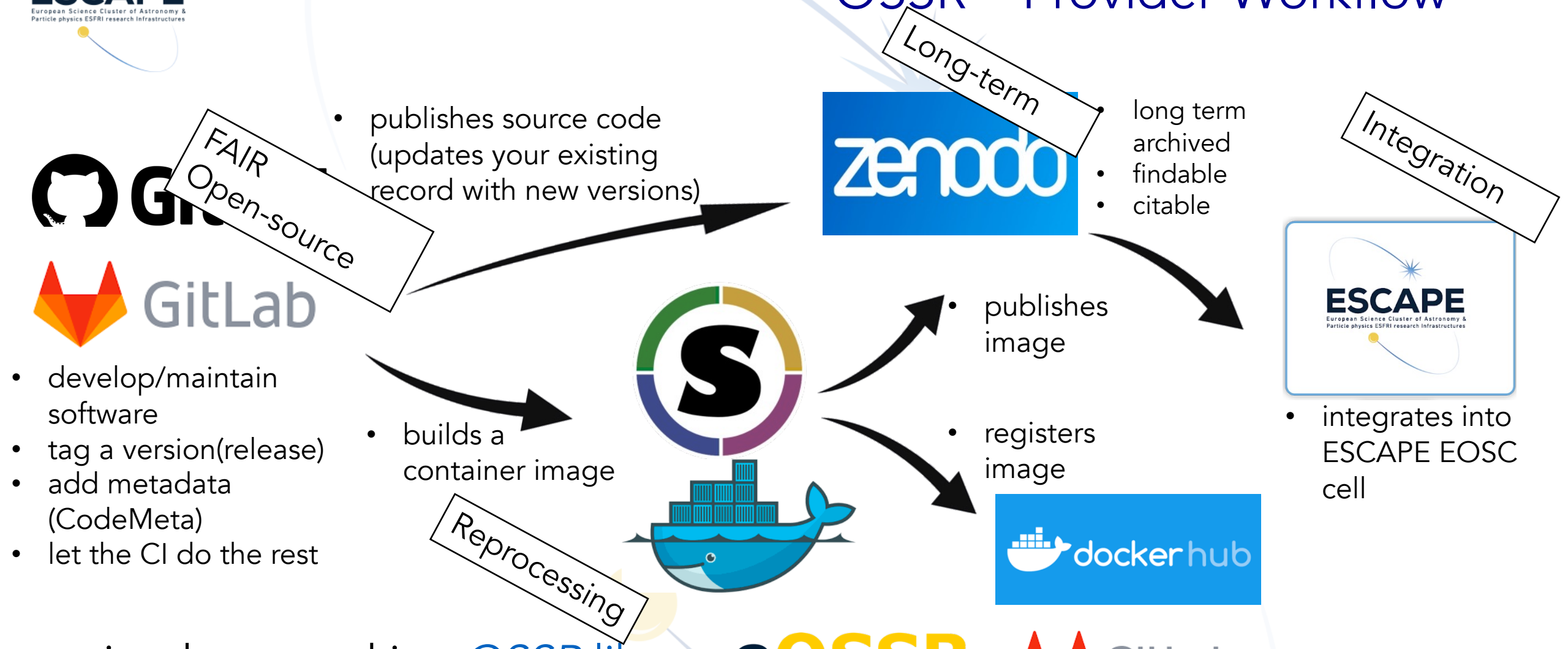
OSSR – Provider Workflow



implemented in *eOSSR library* eOSSR

DOI 10.5281/zenodo.5524912

GitLab Container Registry

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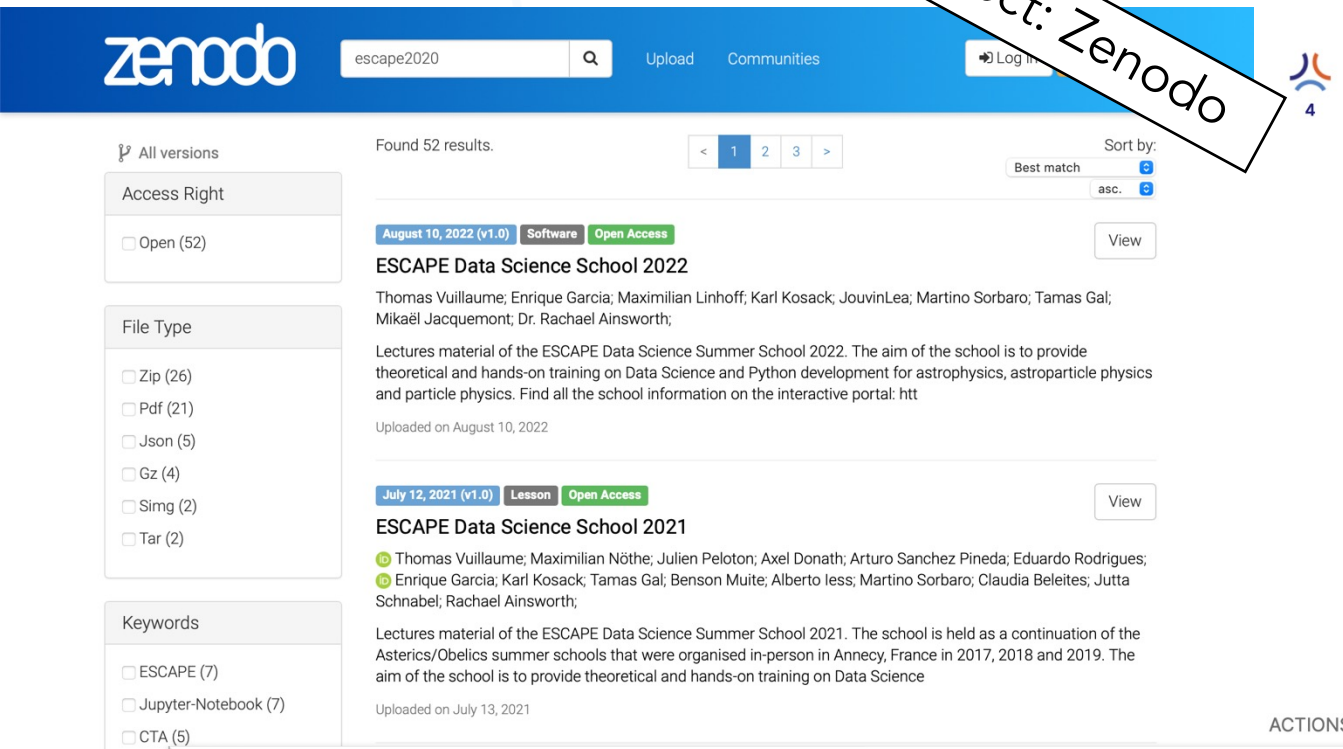
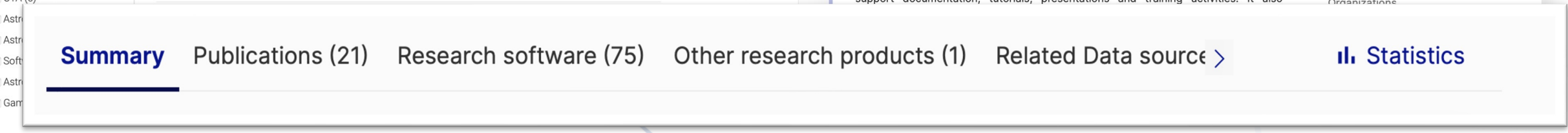
OSSR Onboarded Entries

Direct: Zenodo

Aggregated: EOSC Portal via OpenAIRE





Repository registered at re3data.org; http://doi.org/10.17616/R31NJN5V

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OSSR in the Open Collaboration Area

- Transition from project organisation into open collaboration under an MoU
- Three main areas of collaboration:
  - Policy, Strategy and Collaboration
  - Onboarding → Curated Repository!
  - Technical Developments
  - (further sub-groups under discussion)
- Aims:
  - Collect software to provide additional visibility and cite-ability for RSEs; strengthen software competence with quality in focus
  - Use of OSSR as forum to foster publications/opportunities
  - Offer standards for new communities to join

By software curation & standards

Enable sustainability by encouraging open source software

Sharing best practices

Foster co-development of software

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Onboarding

- Type of projects to onboard:
  - Software/Services/Projects from the ESCAPE & EOSC-future (Astro/Particle/Physics) context
  - Any open software from the scientific field beneficial for the community
  - Analyses and workflows
- How to onboard:
  - Register at the OSSR: https://purl.org/escape/ossr/onboarding
  - Present your work at an OSSR onboarding session (several per year)
  - Add your project to zenodo and get it curated

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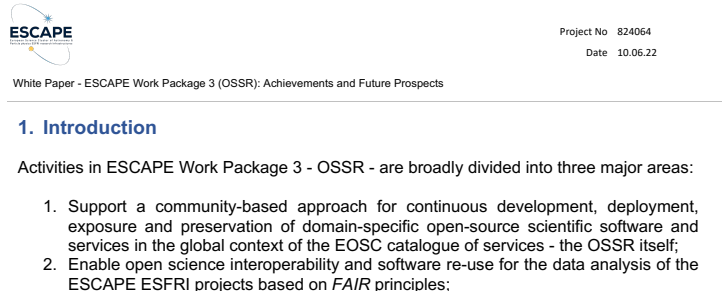
Further Reading: OSSR Publications

- OSSR White Paper:
  ESCAPE Work Package 3 (OSSR): Achievements and Future Prospects

- Scientific paper:
  The ESCAPE Open-source Software and Service Repository
  ORE 2023, 3:46 (under review)

- Policy Paper:
  Open Source and Service Repository Policy
  DOI: 10.5281/zenodo.6757112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Project No 824064
Date 10.06.22

White Paper - ESCAPE Work Package 3 (OSSR): Achievements and Future Prospects

1. Introduction

Activities in ESCAPE Work Package 3 - OSSR - are broadly divided into three major areas:

1. Support a community-based approach for continuous development, deployment, exposure and preservation of domain-specific open-source scientific software and services in the global context of the EOSC catalogue of services - the OSSR itself;
2. Enable open science interoperability and software re-use for the data analysis of the ESCAPE ESFRI projects based on *FAIR* principles;

Open Research Europe

Open Research Europe 2023, 3:46 Last updated: 04 JUL 2023

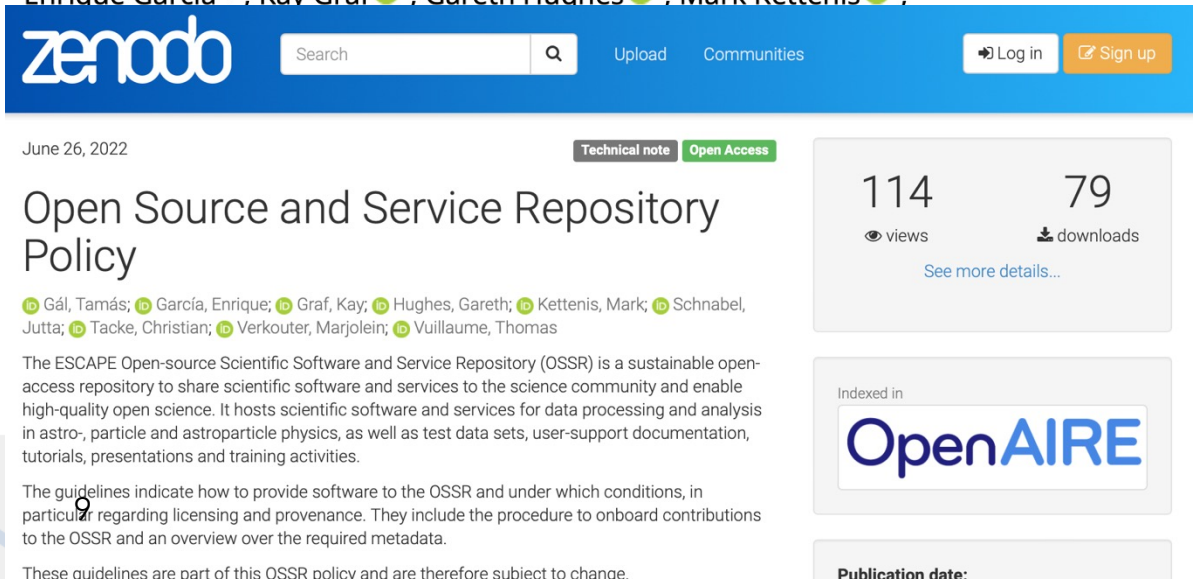
Check for updates

OPEN LETTER

The ESCAPE Open-source Software and Service Repository

[version 1; peer review: awaiting peer review]

Thomas Vuillaume[1], Mohammad Al-Turany[2], Matthias Füßling[3], Tamas Gal[4], Enrique Garcia[1,5], Kay Graf[4], Gareth Hughes[3], Mark Kettenis[6],


zenodo

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June 26, 2022

Technical note Open Access

Open Source and Service Repository Policy

Gál, Tamás; García, Enrique; Graf, Kay; Hughes, Gareth; Kettenis, Mark; Schnabel, Jutta; Tacke, Christian; Verkouter, Marjolein; Vuillaume, Thomas

The ESCAPE Open-source Scientific Software and Service Repository (OSSR) is a sustainable open-access repository to share scientific software and services to the science community and enable high-quality open science. It hosts scientific software and services for data processing and analysis in astro-, particle and astroparticle physics, as well as test data sets, user-support documentation, tutorials, presentations and training activities.

The guidelines indicate how to provide software to the OSSR and under which conditions, in particular regarding licensing and provenance. They include the procedure to onboard contributions to the OSSR and an overview over the required metadata.

These guidelines are part of this OSSR policy and are therefore subject to change.

114 views 79 downloads

See more details...

Indexed in OpenAIRE

OSSR started as EOSC Project and became an Open Collaboration lately

Many overlapping topics with SciCodes

Thank you for your attention!

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