

ECAP, Friedrich-Alexander University Erlangen-Nürnberg

ESCAPE TSP General Meeting, 20th Oct. 2021





ESCAPE EOSC cell

••• ESCAPE 000 OSSR

Catalogue & Repository of resources

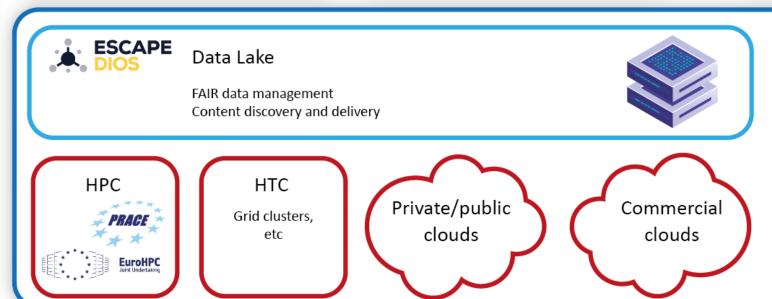
Datasets Software & services Tutorials Training Publications





TSP's





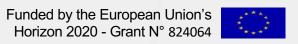






E-OSSR Aims and Objectives

- Aim: ⇒ open-science products shared open science software and services based on FAIR principles
- Objectives:
 - Facilitate and support continuous development, deployment, exposure and preservation of partners' software/tools/services
 - Foster interoperability, software re-use and cross-fertilisation between ESFRIs (e.g. simulation)
 - Offer an open innovation environment for open standards (e.g. workflows, data-formats), common regulations and shared (novel) software for multi-messenger & multi-probe data
- All objectives follow:
 - Paradigm of enabling open science with software as "first class citizen"
 - a community-based, inclusive approach
 - the FAIR principles for open science resources software and derivatives
 - Federation of available resources







OSSR entry categorization (draft)

Can be loaded in ESAP?

- Scientific analysis software
 - fully installable software packages, e.g. gammypy
- Service environments
 - Projects for data and service providers, which offer e.g. a platform, GUI, or middleware for the computing environment (e.g. ConCordia)

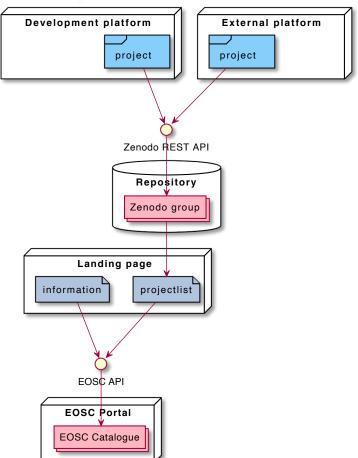
ESCAPE services to OSSR?

- dedicated scientific products (analysis, data)
 - repositories of data or workflows: projects that provide a certain class of data objects and serve as repository for this class of data, e.g. jupyter notebooks, or certain analysis results (if not provided in datalake or VO), e.g. CME database
 - integration self-contained analysis environments: repositories which provide full workflows into ESAP? and data (access), e.g. to reproduce a given analysis (e.g. SKA data challenge, HCG-<u>16 study</u>)

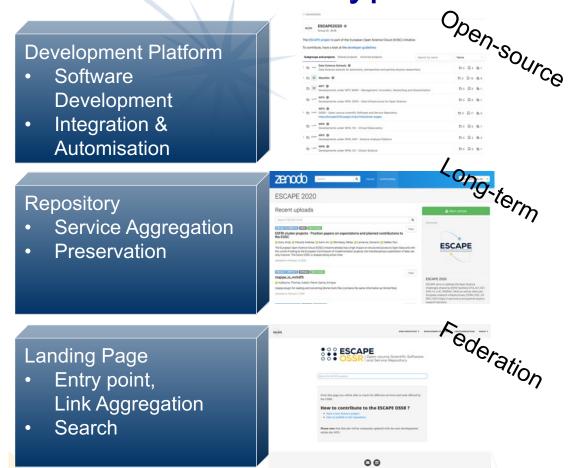








OSSR Prototype - Schematic



See also technical presentation on E-EB extended discussion day





ESCAPE OSSR and Development Platform– how to ease the publication and integration process?

- publishes source code
- Jupyter notebooks (mybinder integration)

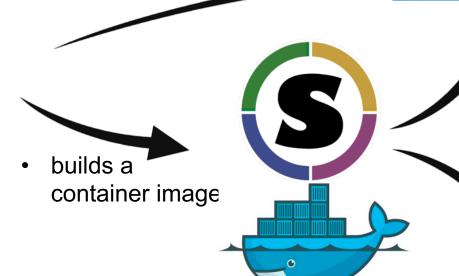




- long term archived
- findable
- citable



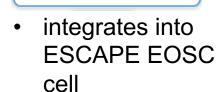
- develop/maintain software
- tag a version(release)
- let the CI do the rest

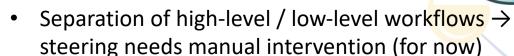


publishes image

registers image







How to integrate ReCAST/reana → similar workflow









OSSR - Current Landing Page

http://purl.org/escape/ossr

TUTORIALS V

TOOLS ▼

ABOUT ▼



R | Open-source Scientific Software and Service Repository

Search software and services in the ESCAPE reposit

Welcome to the ESCAPE OSSR!

Browse the OSSR content.

What is it?

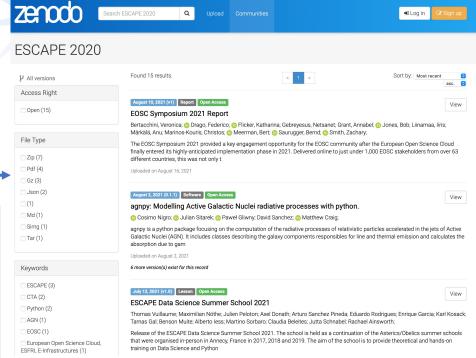
The ESCAPE Open-source Scientific Software and Service Repository (OSSR) is a sustainable open-access repository to share scientific software and services to the science community and enable open science. It will house astro-particle-physicsrelated scientific software and services for data processing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

How to contribute to the ESCAPE OSSR?

You can onboard your project right now - see here how.

Learn more about our projects in this website or Contact us!





To be added: related projects (TSPs!) / collections









Short Demo

as Video at the ESCAPE Cloud

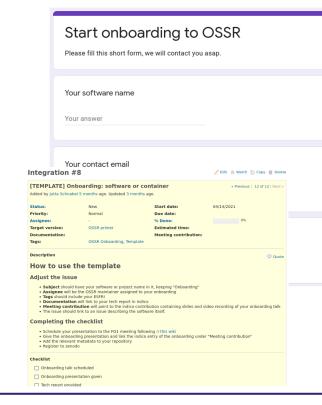






Onboarding Procedure

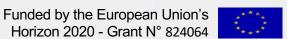
- Checklist for ESCAPE partners at https://escape2020.pages.in2p3.fr/wp3/ossrpages/
 - Process tracked via issues on <u>project platform</u>
 - Necessary: Onboarding presentation & technical report
 - → entry on the landing page
 - Add metadata and register to ESCAPE community at Zenodo
- To be extended to external partners (TSOs) and streamlined
 - Add EOSC terms of use



Onboarding Procedure Checklist

- Sign User Agreement (We don't have a formal User Agreement yet. We currently assume "conduct implying an intent" / "implied contract".)
- Request an issue in the project platform to start the onboarding process by filling this registration form, or contacting a repository maintainer.
- 🗹 A short onboarding presentation should be held during an FG1 call using this template, an example can be found in this talk. Please book your date in this poll.
- A technical report should be filed using this template, an example can be found at this tech report.







Backup Slides







Aim: ESCAPE Virtual Research Environment

