OSCARS
Open Science Clusters' Action for Research & Society

Funded Project

Einstein Telescope Analysis Portal (ETAP)

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Implemented by

Université de Genève, Faculté des Sciences, Département d'astronomie
GWSC Gravitational Wave Science Center

Funded by the European Union

What problem(s) are you going to solve?

- Current large RIs manage their data **independently**, a complex problem (politics, differing requirements, a critical operations component)
- The result is multi-RI data analysis requires a **data preparation step** to curate an open science dataset, often losing information
- Open science data **lacks access to the rich metadata tools** of the RIs
- The above problems **limit** the scope of citizen science
- Virtual Research Environments provide only **limited monitoring and accounting** information to inform us of the environmental impact of citizen science

SOLUTION

What are you planning to do to solve the problem?

- Starting with the ESCAPE VRE, and working together with our sister project, MADDEN, ETAP will integrate a **multi-RI ESCAPE Data Lake**
- ETAP will also integrate the HEP Software Foundation **(HSF) Metadata database** that was designed by RI experts to be used by RI scientists
- The above solutions will **broaden the scope of citizen science**
- In addition, ETAP will provide a **new Computing Resource Monitoring** (CRM) service for the ESCAPE VRE

RESULTS

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What will be the results and how do you plan to make them available to the broader community?

- The multi-RI ESCAPE Data Lake and new tools to utilise it will be **integrated into the Rucio project**
- The **HSF Metadata database integration** will be made available to the ESCAPE VRE, together with tools allowing multi-RI metadata access
- The **Computing Resource Monitoring (CRM)** service will be integrated into the REANA project and the ESCAPE VRE

RISKS

What risks could limit the success of the project, and how can they be mitigated

- The multi-RI Data Lake objective **relies crucially on MADDEN**; close cross-coordination has been established between the two teams
- The ESCAPE VRE is a powerful and complex framework; close coordination is guaranteed by the speaker! Regular VRE Working Group meetings and Mattermost support channels also mean that problems are quickly solved
- The HSF Metadata database is a **new integration**; the project's team are invested in the success of the integration
- The CRM service is also a **new integration**; the REANA project lead has already prioritized preparatory work in this area and will co-design the service

TEAM

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