# OBELICS – EOSC panel

## ASTERICS RIs and EOSC

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# ASTERICS RIs as consumers

1. What are the EOSC services that ASTERICS RIs would benefit from as consumers?

Each RI produces data at a continuous rate, and performs basic processing (calibration, geometric registration, etc.): for that purpose it is expected to have its own dedicated e-infrastructure. The result are archives of persistent data. EOSC should provide data-computing interoperability mechanisms to allow processing on archived data at the archive location (data centre).

# ASTERICS RIs as providers

2. What services ASTERICS RIs could provide for third party access and use through the EOSC?

Each ASTERICS RI provides an archive of datasets in physical units (i.e. reusable); if the IVOA standards are used, data are FAIR. Additional services could be provided (cut-out service, catalogues of astro objects, classification, etc.) at the discretion of the data centre.
Additionally, a repository of software tools, pipelines, etc., could also be provided,

# ASTERICS RIs access policies

3. What access policies would be applicable to users of ASTERICS RI services in EOSC?

Datasets are open and public, after a (usually short) proprietary period; metadata are always public except for peculiar cases (e.g. search for extrasolar planets); software is usually public as well – in these cases registering users is not necessary (even undesired).
For the use of additional services requiring computing users should be authorised (A&A necessary).

# ASTERICS RIs as publishers

4. What conditions should apply to ASTERICS RI services in order to be published in a EOSC service catalogue? e.g. compliance to reference standards, technical readiness, etc.

In order for the services to be publishable in a EOSC:

1. datasets are to be FAIR → data shall comply with the astro community standards (mainly IVOA, FITS + few others) … this is usually the case
2. IVOA is a Virtual Research Environment → software tools are to comply with IVOA standards as well

# Thank you for your attention!

Acknowledgement: H2020 – Astronomy ESFRI and Research Infrastructure Cluster (Grant Agreement number: 653477).