

WP5 - ESAP ESFRI Science Analysis Platform

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WP2/WP5 F2F meeting, 1-3 July 2019, Amsterdam

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.



1 July 13:00 - 15:00 WP5

- Discussion: One SAP for all ESFRIs vs. other options
- Discussion: Interface from external data portals to ESAP
- Interface with other WPs plans and coordinations
- CosmoHUB

ESCAPE

1 July 15:30 - 17:00 WP2/WP5

- Software and Service repository
- Event Driven Processing and Data Management

2 July 09:00 - 17:30 WP2/WP5

- The Virtual Observatory (Proprietary data query)
- Authentication and Authorization Infrastructure (AAI)
- ESFRI presentations
- WP2/WP5 interfaces

3 July 09:00 - 12:30 WP5

- Discussion: Plan for contribution and implementation
- D5.2 Detailed project plan Sections, contributions





One SAP for all ESFRIs vs. other options

Each ESFRI may have many use cases.

Do we want to

- have one Science Analysis Platform for all ESFRIs, or
- do we prefer a ESAP framework (ESAP-Hub)
 - where each ESFRI has their own ESAP instance, or
- do we want to have something in between.





Interface from external data portals to ESAP

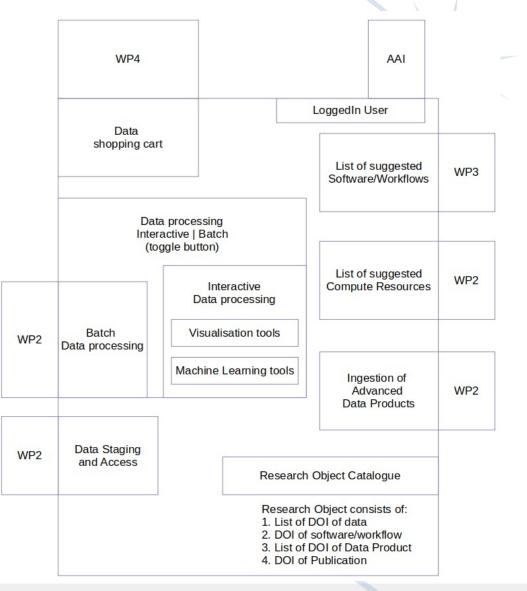
Most if not all observatories already have portals to sign on.

- Would it make sense to have a single-sign on service that makes a user logged into ESAP automatically in case they are logged into any of the observatory's portals?
- Is it planned/desirable to also support the use-case where users search on a web interface of a facility (e.g.http://archive.eso.org/scienceportal/home) and then can say 'make data available for analysis in ESAP'?





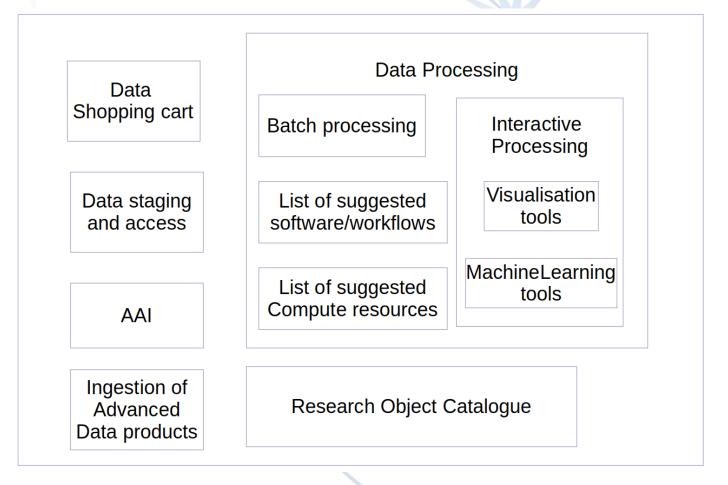
ESAP UI components







Identified ESAP Services





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WP2/WP5 interface

- Data Staging and access
- Ingestion of advanced data products
- Batch processing
- List of suggested compute resources
- Authorisation
- Are there any other interfaces between WP2 and WP5 than the ones identified above?
- What scenarios does WP5 expect to cover w.r.t. the interface between WP5 and the caching/staging layer of WP2? Examples
 - User has specific preference about where data is to be processed (e.g. agreements with specific compute centres)
 - User just wants to process near the data, provided available capacity
 - User has specific processing needs which make specification of location needed
 - User has specific QOS requirements (e.g. prefer to wait longer to have the full data set available on fast storage than to wait shorter but have slower reads during processing)



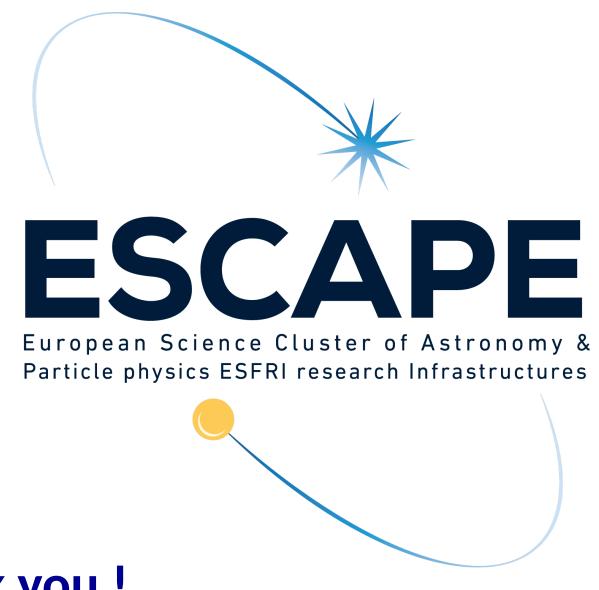


WP5: Plan for contribution and implementation

- CERN
- CNRS-LAPP
- CSIC
- CTAO
- FAIR GMBH
- EGO
- FAU
- INAF
- IFAE
- JIVE
- KIS
- NWO-I-ASTRON
- NWO-I-Nikhef
- RuG
- SKAO
- UCM
- UEDIN

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





Thank you !