







ESCAPE - Connecting ESFRI to EOSC

Marco Molinaro – INAF EOSC Services, Collaborations and RDA RDA Plenary 14 co-located event, 21 October – Helsinki

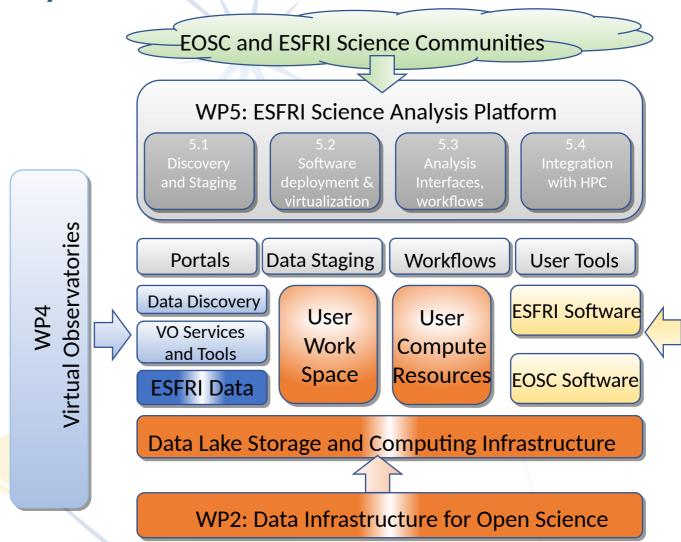
ESCAPE - The European Science Cluster of Astronomy & Particle Physics ESFRI Research Infrastructures has received funding from the European Union's Horizon 2020 research and innovation programme under the Grant Agreement no 824064.





The European Science Cluster of **Astronomy & Particle Physics ESFRI Research Infrastructures**



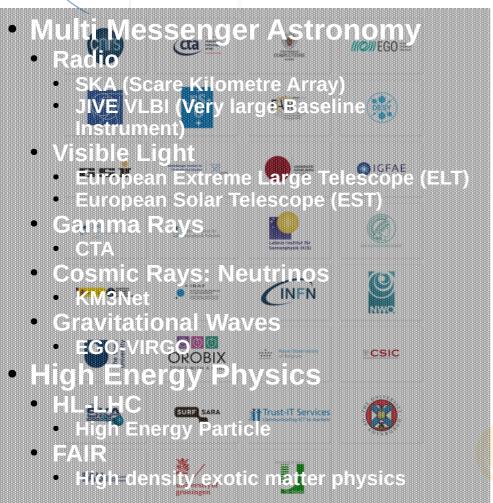


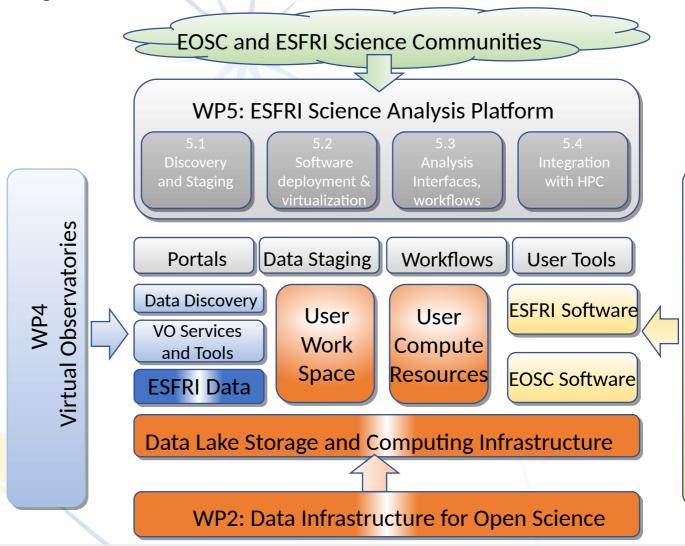
Software devel. and repos.

WP3



The European Science Cluster of **Astronomy & Particle Physics ESFRI Research Infrastructures**





and repos.

Software devel.



International Virtual Observatory Alliance



Gathering and coordinating the **European contributions** to the Virtual Observatory (see also next slide).

Supporting the actors with community actions:

→ Data Providers, VO developers, Science Users.

Continuing impact for "all-sky" astronomy.

The Virtual Observatory (VO) is the vision that astronomical datasets and other resources should work as a seamless whole.

The IVOA is an organisation that debates and agrees the technical standards that are needed to make the VO possible.







































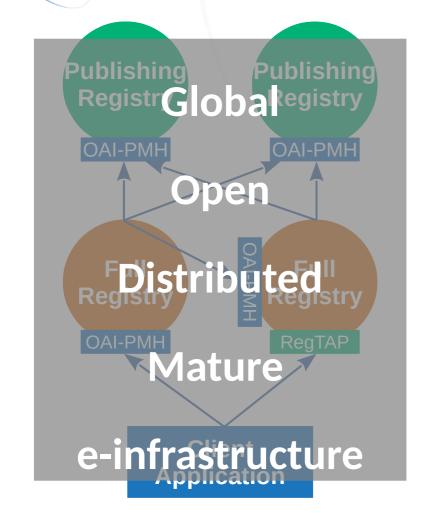


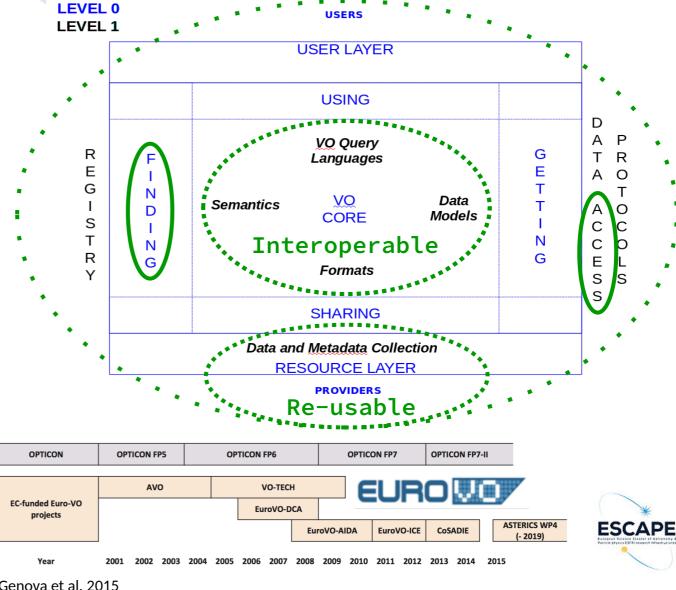






ESCAPE IVOA FAIR Architecture





Genova et al. 2015

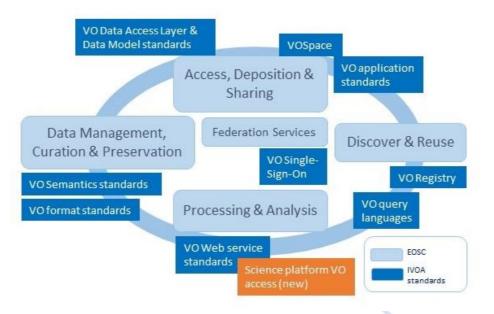






Connecting ESFRI projects to EOSC through VO framework CEVO (WP4)

- Connect the ESFRI and other astronomy RI to the EOSC through the VO framework
- Refine and further implement FAIR principles for astronomy data through common standards for interoperability
- Establish data stewardship practices to add value to the scientific content of ESFRI data archives









ESCAPE Storage, computing, applications...

WP2 DIOS

 Contribute to the federation of global EOSC resources through an implementation of the Data-Lake concept to manage extremely large volumes of data up to the multi-exabyte scale

WP3 OSSR

 Support for "scientific software" as a major component of the ESFR-RI "data" to be stored and displayed in EOSC via dedicated community-based catalogues

WP5 ESAP

 Implementation of scientific analysis platforms enabling EOSC researchers to organize data collections, analyse them, access ESFRI's software tools, and provide their own customized workflows





Storage, computing, applications...

WP2 DIOS
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