

European Science Cluster of Astronomy & Particle physics ESFRI research infrastructures

Bringing astronomy, astroparticle & particle physics into the European Open Science Cloud: Findable, Accessible, Interoperable, Reusable

Why combine multi-messenger astronomy and accelerator-driven particle physics?

A deluge of data is expected in the next years by the next generation facilities prioritised in the European Strategy Forum on Research Infrastructures (ESFRI), and other world-class projects. Common problems invite common solutions. ESCAPE provides a framework for the FAIRness of data and software interoperability: an easy access to data registry and shared software, training for open science and the virtual observatory, a common science analysis platform, a data lake cloud services, and citizen science experiments.



Investigating the two extremes, from the largest-scale structures in the observable Universe to the most fundamental particles, the astronomy-related projects and the accelerator-based particle physics facilities will together open new paths towards the understanding of the Universe. ESCAPE leverages astronomy and particle physics aligned challenges of data-driven research as well as shared long-standing expertise in large-scale computing and data management services.

Who does ESCAPE involve?



e-infrastructures



European Open Science Cloud Governance



ESFRI Projects



Policy Bodies





What will ESCAPE produce?



ESCAPE CS | Citizen | Science



ESCAPE DIOS | Data Infrastructure for Open Science



ESCAPE OSSR



ESCAPE ESAP



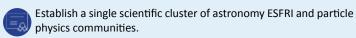


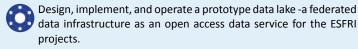
ESCAPE VO Virtual Observatory

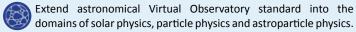


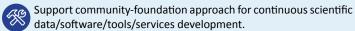
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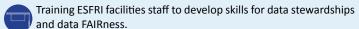
ESCAPE Main Goals



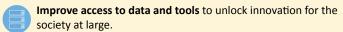


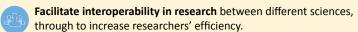


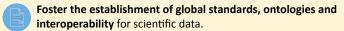


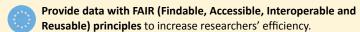


ESCAPE Main Impacts

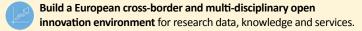








Create of economies of scale, through the adoption of common approaches for data management.











Facilitating interoperability in research

















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