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https://www.projectescape.eu/sites/default/files/Escape_position_statement_web.pdf



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European Science Cluster of Astronomy &
Particle physics ESFRI research Infrastructures



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ESCAPE

European Science Cluster of Astronomy &
Particle physics ESFRI research Infrastructures

European Science Cluster of Astronomy & Particle Physics ESFRI Research Infrastructure

Bringing Astronomy, Astroparticle &
Particle Physics into the European Open Science Cloud:
Findable, Accessible, Interoperable, Reusable



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.

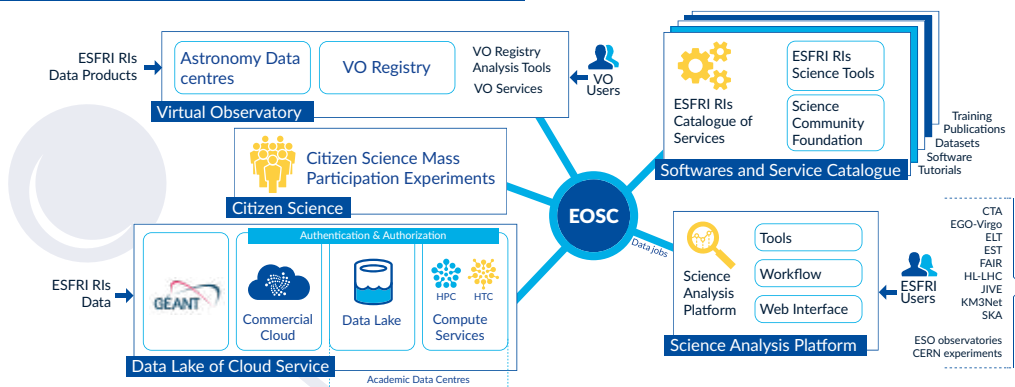
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ESCAPE Main Impacts on Open Science

- ✦ Improve access to data and tools to unlock innovation for the society at large.
- ✦ Facilitate interoperability in research between different sciences to increase the efficiency.
- ✦ Foster the establishment of global standards, ontologies and interoperability for scientific data.
- ✦ Provide data with FAIR (Findable, Accessible, Interoperable and Reusable) principles to increase researchers' efficiency.
- ✦ Create economies of scale, through the adoption of common approaches for data management.
- ✦ Build a European cross-border and multi-disciplinary open innovation environment for research data, knowledge and services.

ESCAPE is creating a cross border & multidisciplinary environment to enable EOSC to adopt transversally services & e-infrastructures and data stewardship of ESFRI projects.

MANAGEMENT INNOVATION NETWORKING DISSEMINATION



ESCAPE FIVE SERVICES

That follow FAIR principles & compose the “ESCAPE EOSC CELL”



Bring the science-inclined public directly and genuinely into the processes of scientific discovery, through citizen science experiments, by using existing data collections.

NEW Best approach for getting the general public genuinely involved in the scientific discoveries of the astronomy and physics facilities in the EOSC.
<https://projectescape.eu/services/escape-citizen-science>



Federated data infrastructure for open access data, that enables large national research data centres to work together and build a cloud-like service to curate and scale up to multi-Exabyte needs.

NEW Capability to manage large volumes of data and make them accessible to very distributed communities, while optimising the cost of storage.
<https://projectescape.eu/services/data-infrastructure-open-science>



Sustainable open-access repository to share scientific software and services to the science community and enable open science.

NEW Combining for the first time the expertise of world-leading research infrastructures and institutions in the fields of Astrophysics, Astroparticle Physics and Particle Physics.
<https://projectescape.eu/services/open-source-scientific-software-and-service-repository>



Flexible science platform for the analysis of open access data available through the EOSC, which combines data from multiple collections and stage that data for subsequent processing and analysis.

NEW Combining data from different but related scientific disciplines, bringing them together into a unique multi-messenger and cross-domain Open Science Cloud for fundamental science.
projectescape.eu/services/esfri-science-analysis-platform



A Virtual Observatory (VO) framework that integrates distributed infrastructures into one single virtual astronomy facility, while enabling archive interoperable services from ESFRI and big data sets are openly accessible.

NEW Pioneer of data sharing with a well-established alliance of international partners who cooperate to build the necessary interoperability standards.
<https://projectescape.eu/services/escape-virtual-observatory>

Know more about the services that will be part of the global EOSC catalogue of scientific software. Check our catalogue, visit projectescape.eu/escape-catalogue