



# European Science Cluster of Astronomy & Particle physics ESFRI research infrastructures

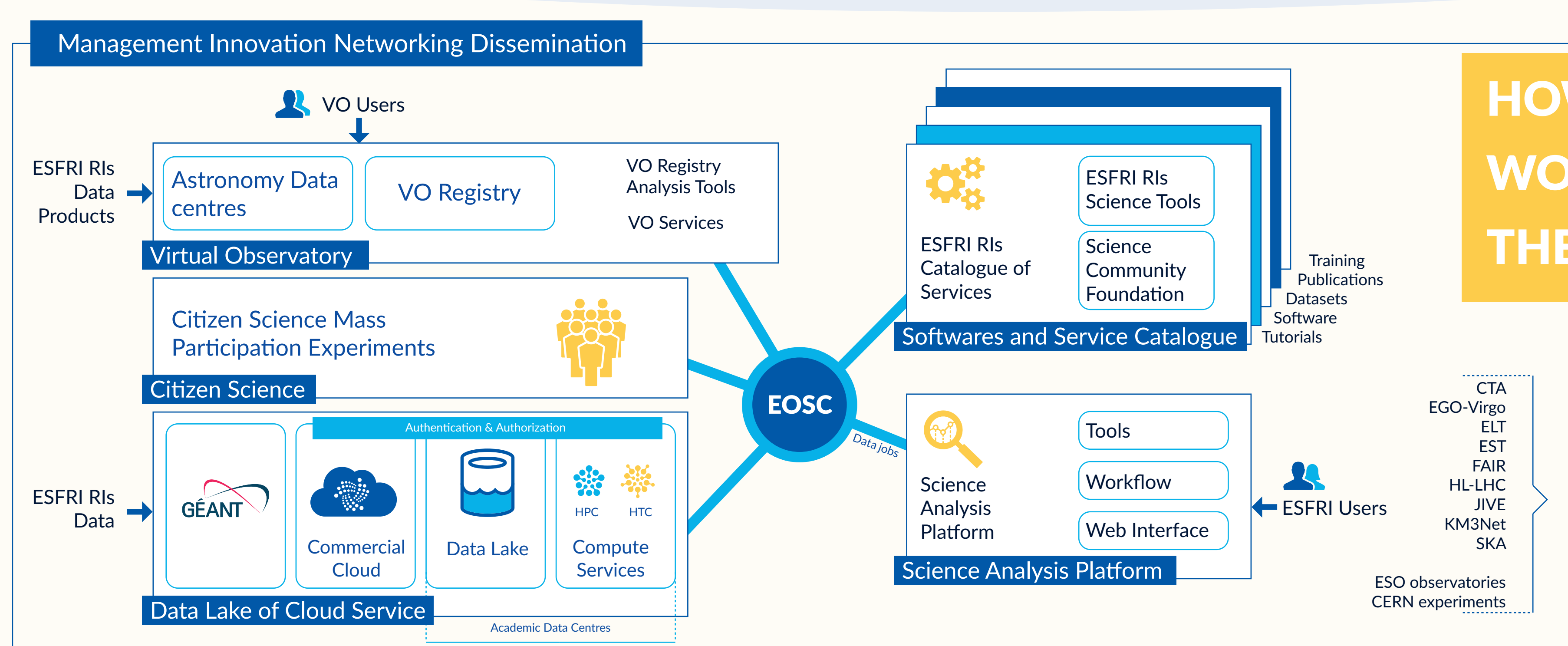
ESCAPE brings together the astronomy, astroparticle and particle physics communities, as well as a cluster with European Strategy Forum on Research Infrastructures (ESFRI) projects. These ESFRI have demonstrated capabilities in addressing various stages of data workflow and concerned with fundamental research through complementary approaches.

## EOSC for ESCAPE

EOSC will federate existing resources across national data centres, e-infrastructures, and research infrastructures, allowing researchers (and citizens) to access and re-use data produced by the ESFRI projects for a multi-probe approach to understand the Universe; accelerating the discoveries and increasing scientific value by sharing data and by transferring knowledge within scientific communities.

## ESCAPE for EOSC

ESCAPE will provide “an Astronomy and Particle/Nuclear Physics cell” that will enable EOSC to adopt transversally services and e-infrastructures that will be useful also in support of other disciplinary “cells”. ESCAPE is also contributing to the EOSC Working Groups on Architecture and FAIR.



**HOW ESCAPE IS WORKING TO DELIVER THE EOSC THEMATIC**

## ESCAPE FIVE SERVICES THAT FOLLOW FAIR PRINCIPLES & COMPOSE THE “ESCAPE EOSC CELL”

To be fully exploited in September 2021



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.



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.



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



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.



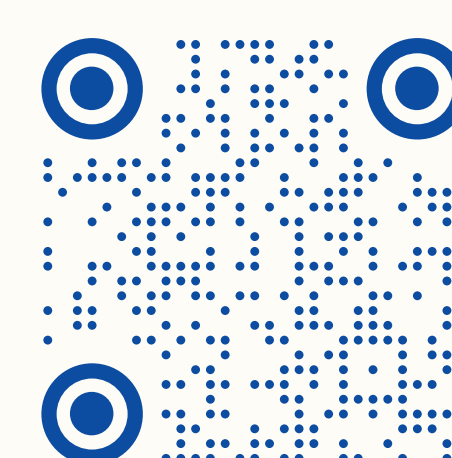
Bring the science-inclined public directly and genuinely into the processes of scientific discovery, through citizen science experiments, by using existing data collections.

## JOIN OUR COMMUNITY

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**ESCAPE Catalogue of Services**  
Know more about the services that will be part of the global EOSC catalogue of scientific software  
**CHECK HERE**



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