

## ESCAPE – Open Data and Open Science in Astrophysics

*Tuesday, 17 May 2022 15:30 (30 minutes)*

The H2020 ESCAPE science cluster project ([projectescape.eu](http://projectescape.eu)) has brought together the main research infrastructures (RIs) in Astronomy, Astroparticle Physics, Particle and Nuclear Physics to act in a coherent way towards the European Open Science Cloud and associated funding actions. These RIs are ESFRI projects and landmarks such as CTAO, ELT, EST, FAIR, HL-LHC, KM3NeT and SKAO as well as other pan-European research infrastructures such as CERN, ESO, JIV-ERIC and EGO. ESCAPE addresses the challenges shared by its partners and the relevant scientific communities for the implementation of open-science practices and the management of FAIR (Findable, Accessible, Interoperable and Reusable) digital research objects into the core operation of ESFRI projects and landmarks and other relevant world class RIs. These challenges are technical, operational, sociological and scientific, aiming at enhancing the diversity of research activities and scientific objectives. A potential future evolution of the scientific programme of ICRANET could consider a support to reinforce the synergies among phenomenological studies and analysis of astrophysical observational data in an “Open Science” European as well as global contexts. The reproducibility of scientific results as well as the rewarding of scientists committed in open research, deserve the evolution of practices on the assessment of research, increasing value to wide range of digital objects beyond publications and data, including software, workflows, and processes, such as open peer-reviews.

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