

The logo graphic for ESCAPE features a stylized blue starburst at the top, a thin blue orbital line curving around it, and a small yellow circle at the bottom left of the orbit.

ESCAPE

European Science Cluster of Astronomy &
Particle physics ESFRI research Infrastructures

CS Working Group update 7 November 2025

Stephen Serjeant



ESCAPE Open Collaboration Citizen Science update

- developments since April 2025 in dark red

- Start of OSCARS Cascading Grant: Astronomy Dark Matter Test Science Project
 - Contains a small citizen science component but no CS activity until nearing the end of the project; **OSCARS citizen science centre of excellence unfortunately not funded**
 - Astronomers' review of the original Dark Matter Test Science Project submitted to Open Research Europe, available at <https://arxiv.org/abs/2509.22609>
- ACME Horizon-funded multi-messenger astronomy project now underway
 - **Successful pro/am citizen science workshop on 10 June 2025 – 66 participants**
<https://citizen-science.sciencesconf.org/>
- ESA Euclid Horizon-funded ELSA project now underway
 - Combined CS activities with **awarded** NASA ROSES project for volunteer annotations of dispersed Euclid images
- APPEC Strategy 2027-2036 open science and citizen science working group:
submission to APPEC strategy made



ESCAPE Open Collaboration Citizen Science update

- developments since April 2025 in dark red

- HORIZON-INFRA-2025-01-EOSC-01 submission led by PANOSC with astronomy and citizen science involvements. Builds operational thematic EOSC Node in PANOSC area and supports development of potential astronomy node. Extends crowdsourced data mining applications from ESCAPE to PANOSC domain.



SPANs

Sustainable Photon, Astronomy and Neutron Services
for the EOSC Federation



ESCAPE Open Collaboration Citizen Science update

- developments since April 2025 in dark red

- HORIZON-INFRA-2025-01-EOSC-05 submission. Develops generative AI models for ESCAPE domain, with some training sets obtained through crowdsourced data mining via citizen science. 19 partners across Europe, led by OU, combining ESCAPE and EuCAIF communities.



AMPARE

AI Models for Physics and Astrophysics Research
Experiments in the European Open Science Cloud



Opportunities in 2026+ Horizon work programme: HORIZON-INFRA-2026-DEV-01-02

- Call topic has a policy focus; we can contribute to policy recommendations for the management and ingestion of crowdsourced data into EOSC for the EOSC SRIA and MAR
- Citizen Science should also not be missed out in these areas of the call topic:
 - *"Strengthening coordination among research infrastructures to foster complementarities, interoperability, harmonisation, integration and synergies within the domain, and where relevant with other domains to address increasingly complex and multidisciplinary science and technology challenges."*
 - *"Developing, optimising and connecting catalogues of research infrastructures services of European interest. Attention is required to new users, notably researchers and innovators from widening countries and candidate countries, industry (including SMEs, startups and scaleups), early-stage career researchers, and non-expert users. Flexibility to address future needs should be considered."*

Opportunities in 2026+ Horizon work programme: HORIZON-INFRA-2026-01-EOSC-01

- Our aspirations for a citizen science competency centre:
 - support scientist for helping people create and run CS projects, including incorporating machine learning with KaDE and BaJoR, visualising outputs, and ingesting into EOSC (see also minutes of ESCAPE EB #28, #29, #30)
 - creating permanent training resources
- Very good match to the call topic:
 - *"Coordinating, aligning and networking existing community-based competence centres on FAIR and open science practices developed within the EOSC ecosystem."*
 - *"Developing training programmes, modules and material on FAIR and open science practices tailored to the specific needs of different thematic research communities. This activity should include feedback mechanisms to ensure that the training services are responsive to the evolving needs of EOSC user communities."*
 - *"fostering interoperability and integration of data and resources from diverse scientific domains"*
- Required alignment with **HORIZON-INFRA-2025-01-EOSC-01 (e.g. EOSC-SPANs)**