FIESTA
FAIR image analysis across sciences

OSCARS
Open Science Clusters' Action
for Research & Society

Unlocking the potential of imaging across scientific fields, the FAIR Image Analysis Across Sciences project breaks down barriers between disciplines by developing robust, reusable, and interoperable workflows. It will utilise public data archives, such as the BioImage Archive and Copernicus data collections, along with advanced AI models, ensuring compliance with FAIR principles throughout the research process, and enhancing knowledge transfer across disciplines.

ENVRI
Environmental Sciences

ESCAPE
Astronomy, Nuclear and Particle Physics

LS RI
Life Sciences

Challenge

Despite the widespread use of imaging techniques, the practice of extracting quantitative information from image data remains fragmented across scientific communities. Scientists often work in isolated silos, resulting in limited cross-talk and collaboration, which may lead to redundant work and inefficient resource utilisation,

Solution

The FIESTA project will develop reusable image analysis workflows that can be shared across disciplines such as bioimaging, environmental sciences, and astrophysics. By leveraging FAIR-enabling resources like Galaxy and WorkflowHub, the project aims to democratise access to advanced tools and AI models.

Scientific Impact

By promoting domain-agnostic workflows, the project aims to boost scientific research and innovation, increase the adoption of workflow management systems, and enhance data compatibility across domains.

Partners

Euro-BioImaging ERIC Bio-Hub, Simula Research Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), University of Bergen

https://www.oscars-project.eu/projects/fair-image-analysis-across-sciences