

ABOUT

The Division of Florence of CNR-IIA and its Earth and Space Science Informatics Laboratory (ESSI-Lab) are located in Florence, Italy.

Main research themes

- Enhancement of Earth Observation information systems for addressing Big Data challenges;
- Brokering and Mediation solutions to lower entry barriers for Resource Sharing and Interoperability;
- Innovative solutions for facilitating access to and interoperability of scientific Models for Knowledge Generation;
- Cyber-platforms supporting Machine Learning and Artificial Intelligence for Data Mining and Knowledge Extraction from Big Earth Data;
- Transition from Big Earth Data to deep knowledge for supporting informed decision and policy-making.

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Florence Division
CNR-IIA ESSI Lab

Institute of
Atmospheric Pollution
Research
(CNR-IIA)

The research and innovation activity of the Florence division focuses on Knowledge generation and management from Earth Observation (big) Data to address Global Changes through an informed decision-making process

MAIN PARTNERS



PROJECTS IN PROGRESS



ERA-PLANET

The European Network for Observing Our Changing Planet - www.era-planet.eu



SMURBS

SMart URBan Solutions for air quality, disasters and city growth - ERA-PLANET Strand 1 - smurbs.eu



GEOEssential

Essential Variables workflows for resource efficiency and environmental management - ERA-PLANET Strand 2 - www.geoessential.eu



IGOSP

Integrated Global Observing Systems for Persistent Pollutants - ERA-PLANET Strand 3 - www.igosp.eu



DAB4EDGE

GEO-DAB Support for European Direction in GEOSS Common Infrastructure



ENERGIC OD

European NEtwork for Redistributing Geospatial Information to user Communities - Open Data - www.energic-od.eu



ECOPOTENTIAL

Improving Future Ecosystem Benefits through Earth Observations Eu - www.ecopotential-project.eu



EMODNET

The European Marine Observation and Data Network - Data Ingestion - www.emodnet.eu



EOSC-HUB

Integrating and managing services for the European Open Science Cloud - eosc-hub.eu



ODIP II

Establishing and operating an Ocean Data Interoperability Platform - Phase 2 - www.odip.eu



SEADATACLOUD

Further developing the pan-European infrastructure for marine and ocean data management - www.seadatanet.org/About-us/SeaDataCloud