



Training event on Atmospheric Composition Data Exploitation Welcome Part2

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IR0000032 – ITINERIS, Italian Integrated Environmental Research Infrastructures System
(D.D. n. 130/2022 - CUP B53C22002150006) Funded by EU - Next Generation EU PNRR-
Mission 4 "Education and Research" - Component 2: "From research to business" - Investment
3.1: "Fund for the realisation of an integrated system of research and innovation infrastructures"



ITINERIS : the involved RIs



ACTRIS
Exploring the Atmosphere

emso
ERIC

LifeWatch
ERIC

ICOS
European Research Infrastructure Consortium

DANUBIUS-RI

DISCO
Distributed System of Scientific Collections

eLTER

Euro-Argo

AnaEE
Analysis and Experimentation on Ecosystems

EMPHASIS

IBISBA

Eurofleets+

SIOS

EUFIR

JERICORI
SCIENCE - SERVICES - SUSTAINABILITY

ECORD
EUROPEAN CONSORTIUM FOR OCEAN RESEARCH DRILLING

Sistema di monitoraggio terrestre dell'Italia Nord Orientale (SMINO)

ATLaS N/R Laura Bassi

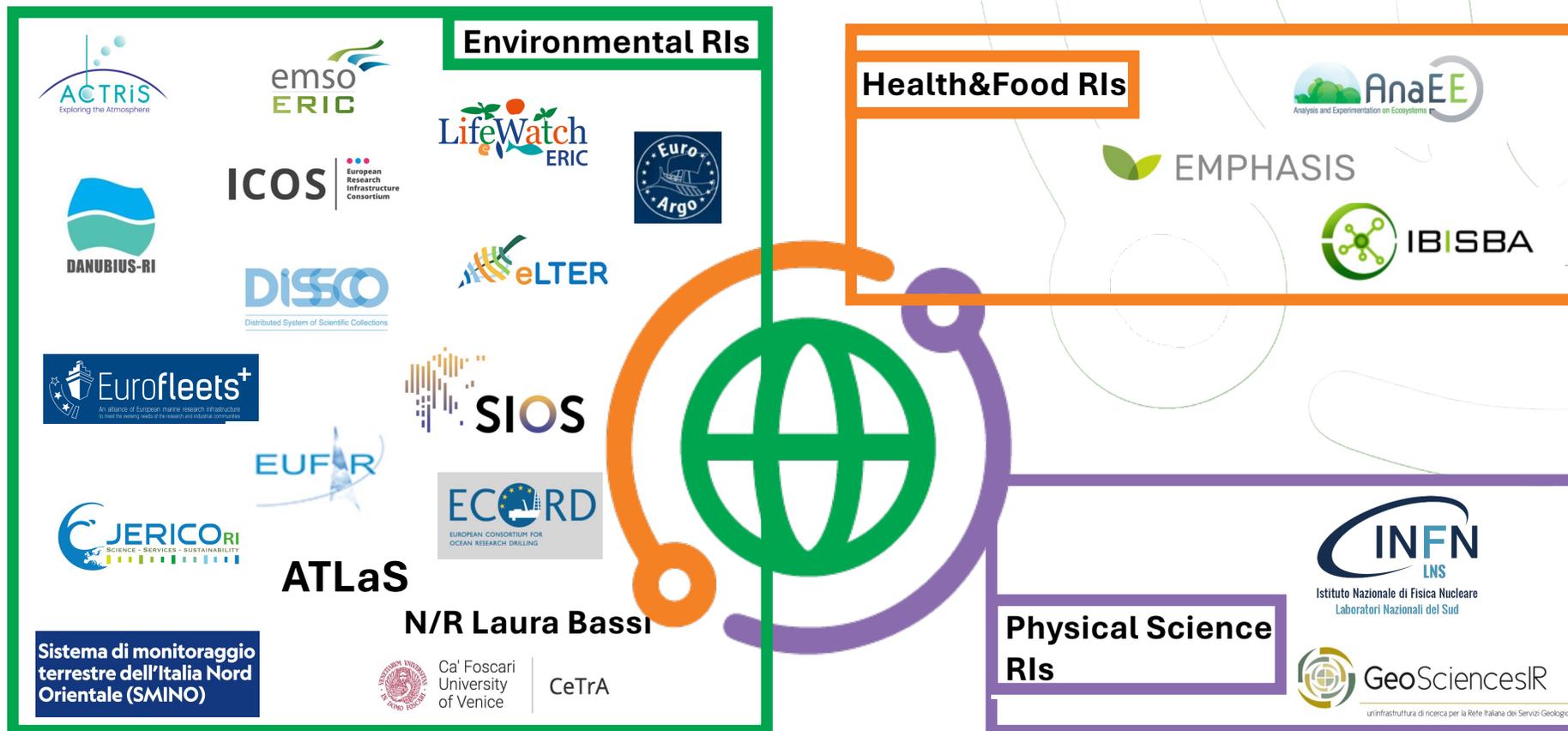
Ca' Foscari University of Venice

CeTrA

INFN
LNS
Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali del Sud

GeoSciencesIR
un'infrastruttura di ricerca per la Rete Italiana dei Servizi Geologici

ITINERIS : the involved RIs



Developments into specific domains

Quantification of particulate sources

The air we breathe
The impact of natural and anthropogenic sources

Essential oceanic and biological variables

NRT data of physical, biogeochemical and geological parameters from research vessels

Nature Based Solutions

The response of biodiversity to changes

Services for Sustainable Agriculture and Environment
Biotechnology

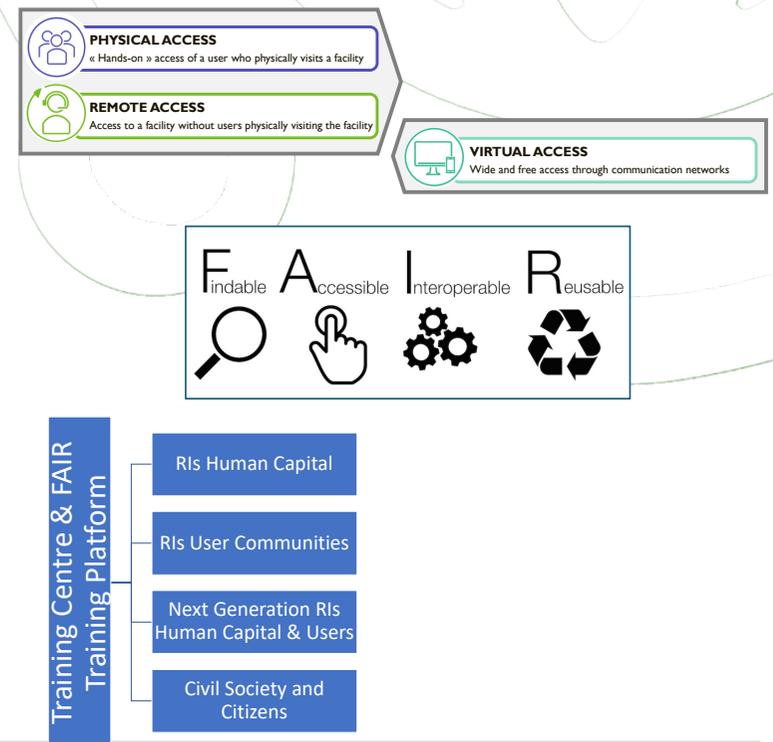
Deep penetration

Processes proximal to the surface
Multi-parameter observations of surface processes

Extra Domains actions

Aimed at promoting **scientific interconnection between domains** and addressing issues that are naturally not confined to the single domain

- ❑ **Strengthening** of physical, remote and virtual **access** policies to **research infrastructures**
- ❑ **Support** for the implementation of **FAIR** and **Open Science policies** for data and digital services
- ❑ **Training** for RI staff, new generation of researchers, users and stakeholders



Single point of access to the data and services of the environmental research infrastructures operating in Italy

CATALOGUE of Services

- Access to the facilities
- Deploy your instrument to the facility
- Visit the facility
- Bring an instrument at your place
-
- Training events and materials
- Digital tools
-

Data Hub

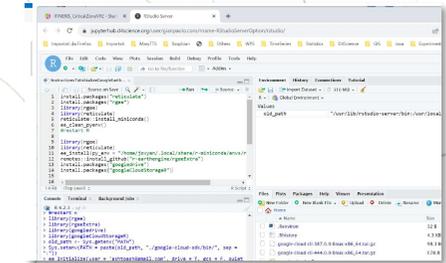


Data discovery for spatial and/or temporal research
ITINERIS dataset visualization and Italian databases

Data download access point

Links to European hubs

VRE



Data analysis and integration tools
with external datasets such as
Copernicus, NASA, local data etc

- Essential Variables
- Aquatic biomass
- AERO
- Critical Zone
- Climate change
- Crops Plants Pests
- Carbon cycle
- Environmental change
- Isotope database

ITINERIS Impacts



Transversal and synergistic approach

Long-term sustainability

Integration with European and international initiatives

Expanding knowledge about environmental processes in subdomains

Creation of the Italian national system of Research Infrastructures in the environmental sector

Improve ability to attract foreign researchers

Promotion of scientific excellence and creation of knowledge and innovation

Strengthening and consolidating Italy's role in environmental research

Attraction of capital and investments in the area



THANKS!

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