



**FORUM on
International Cooperation among Environmental
Research Infrastructures**

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Environmental research addresses **challenges** relating to the dynamics of our planet, such as climate change, biodiversity, carbon emissions, and natural or anthropogenic hazards, **crossing borders** between scientific disciplines and nations.

** modified partially from Sovari, Sanna et al. 2015, 'Towards an interoperable transatlantic environmental research infrastructure system – A CoopEUS Research Infrastructure Roadmap', www.coopeus.eu.*



The **global nature** of the challenges, the scale and **complexity** of the required resources, and the development of information and communication technology, demand and enable the development of a **broad international collaboration** in research and knowledge sharing.



Research Infrastructures (RIs), by offering research **services** for wide user groups and developing new world-class research environments, are **key agents** for advancing the production and cross-usage of scientific information, knowledge and technologies. No single RI can cover all environmental processes - each has therefore focused on a subset of the whole Earth System for study.



→ **broad inclusion and engagement** with **international partners, informatics forums, and funding programs.** COOPEUS recognized the need to build and change the culture of **sharing data and interoperability.** COOP+ expanded to **multilateral cooperation on Grand Challenges.**

Currently, CoopEUS (US) and COOP+ (EC) have a joint committee, referred to as the **Strategic Collaboration Council (SCC).**



The European environmental domain has self-assembled through a **community called ENVRI**, underpinned by projects **ENVRI, ENVRIplus, and ENVRI FAIR**, built around the ESFRI roadmap, associated e-infrastructures, integrating activities, and technical specialist partners. ENVRIplus aims to:

- favour cross-fertilization between infrastructures;
- implement innovative concepts and devices across RIs; and
- facilitate environmental research and innovation.

It is guided by a board of RI leaders called **BEERi**, which is currently planning for its continuation beyond the ENVRIplus project.



COLLABORATION LANDSCAPE

While the potential for **increased international cooperation** among Global Research Infrastructures (GRIs) has been recognized, there is **room for** an environmental body in a landscape that includes:

G7 GSO: ministerial level discussion of RI strategy; across all disciplines

OECD GSF: high level strategy, targeted at science in general rather than specifically RIs; across all disciplines

ENVRI (BEERi): Environmental RI community; European

COOPEUS/COOP+ (SCC): Environmental RI community; beginning of international membership



FIERI

Forum for

International cooperation

among

Environmental

Research Infrastructures



The main objective of **FIERI** is to facilitate collaboration and coordination among Environmental RIs worldwide. This community of RIs then can:

- review the environmental **RI landscape** for joint strategic opportunities to leverage strengths, address gaps, and share resources;
- become aware and proactively contribute to the main **RI worldwide policies** (e.g., policy from GSO G8 and from OECD, ESFRI, etc.), initiatives and trends;
- share **knowledge and best practices** for research infrastructure management, technology, and science;
- **coordinate funding** of different countries/participants for stimulating international cooperation among RIs.



Forum - The Forum is the **decision-making body** and it consists of one delegate for each research infrastructure. For decision-making purposes, each delegate shall have one vote. The decisions will be based on the majority of the votes.

Secretariat - consists of a restricted team of 3-5 persons providing **operating support** to the Forum and its members

Secretary - leader of the Secretariat, has the power to convene the Forum, and manages official communication for the Forum.



The preliminary list of members of FIERI can **start** with the members of the **COOP+/CoopEUS Strategic Collaboration Council (SCC)**. Current members include: Ameriflux, EISCAT, EMSO, ESA, ICOS, IMOS, IRIS, LBA, LIFEWATCH, LTAR, LTER, NEON, ONC, OOI, SAEON, TERN, ...

The **ENVRiplus BEERi** could form the **European** component of FIERI. The list will be revised after the official launch of FIERI and can be updated at any time.

Potential members can indicate their interest in joining **FIERI** by contacting the Secretariat, and completing a simple non-binding **Letter of Intent (LoI)**.



- **Call for Members** (ongoing, starting NOW!)
- **Collect LoI** – signed Statements (ongoing, starting NOW!)
- **1st meeting** venue (aligned with running initiatives such as international collaboration projects/events from any country/entity)
 - Secretariat and Secretary designation
 - Review of the ToR
 - Review of SRIA

Interim Leader(s)

- EMSO ERIC (thorough INGV and MI)
- ICOS (through FMI)
- LifeWatch (through University of Córdoba)



DRAFT STATEMENT*

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Research Infrastructures (RIs), by offering research services for wide user groups and developing new world-class research environments, are key agents for advancing the production and cross-usage of scientific information, knowledge and technologies. No single RI can cover all environmental processes - each has therefore focused on a subset of the whole Earth System for study.

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DRAFT STATEMENT

The creation of the Forum for International cooperation among Environmental Research Infrastructures (FIERI) is proposed to facilitate communication and global cooperation.

FIERI then can:

- review the environmental RI landscape for joint strategic opportunities to leverage strengths, address gaps, and share resources;
- be aware and proactively contribute to the main RI worldwide policies (e.g., policy from GSO G8 and from OECD, ESFRI, etc.), initiatives and trends;
- share knowledge and best practices for research infrastructure management, technology, and science;
- influence the coordinated funding from different countries/participants for stimulating international cooperation among RIs.

The undersigned representatives of environmental research infrastructures indicate their RIs intent to join the Forum for International cooperation among Environmental Research Infrastructures (FIERI). Copies of this document signed in the future also indicate intent to join FIERI.

<u>Research Infrastructure</u>	<u>Name</u>	<u>Role in Research Infrastructure</u>
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coop+
Promoting
collaboration among RIs

THANKS FOR YOUR ATTENTION



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