

POLAR RESEARCH INFRASTRUCTURE NETWORK

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www.eu-polarin.eu

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POLARIN: POLAr Research Infrastructure Network

Funded under:

HORIZON-INFRA-2023-SERV-01-01: Research infrastructure services to enable R&I addressing main challenges and EU priorities

Topic: For RI services for sustainable Arctic/polar regions

Coordinator:

50 partners Budget: M14,6€

March 2024 – February 2029



RESEARCH



Overall aim

To provide efficient and customised RI services to address the scientific challenges of the polar regions, including access to a wide portfolio of complementary and interdisciplinary top level RIs.

S4 Training to RI users

S1 TA to RIs

Services to users S2 - Data access, products, services

S3 VA to RIs

Overall aim

To provide efficient and customised RI services to address the scientific challenges of the polar regions, including access to a wide portfolio of complementary and interdisciplinary top level RIs. (paleo) climate processes

Atmosphere dynamics Sea ice and Polar Oceans

> Sea level, glacier stability and melt

Key research challenges

> Carbon balance and permafrost

Polar ecosystems and biodiversity

Polarin will:



Ensure that the new generations are trained to exploit the leading edge RIs



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POLARIN Consortium





WP9. Project management

POLARIN RESEARCH INFRASTRUCTURE

Access integration to **64** research infrastructures in **both poles**







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27 Arctic stations



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11 Antarctic stations

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Polar vessels



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- 1 deep-sea observatory (FRAM)
- **Ecosystem Monitoring**)



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POLAR RESEARCH **INFRASTRUCTURE** NETWORK

• 2 observational networks (GIOS and Greenland 15 key observatories associated to research stations

OLARIN INFRASTRUCTURE



AWI: Ice core repository **AWI:** Sediment core repository **BAS:** Polar Sediment Core Facility **UiT:** Core repository and geological laboratories



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OLARIN INFRASTRUCTURE



- Arctic Biodiversity Data Service (CAFF)
- **ARICE** Data infrastructure
- Italian Arctic Data Center (**CNR**)
- INTERACT data portal
- Italian National Antarctic Data Center (CNR)
- **POSEDA** (GFZ)
- **SIOS** Data Management System



TYPES OF ACCESS TO RI

Transnational Access







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Transnational Access





Proposal based, Challenge driven

Access to RIs from other countries

International cooperation

Externally evaluated

If granted, access to RI and travel expenses are covered by the project



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Virtual Access



Open access to (new) data, databases and data services



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Objectives

Enable science for understanding and predicting key processes in polar regions

Provide efficient challenge-driven transnational access (TA) to top level RIs in the polar regions

Improve data services and provide customised data products

Provide virtual access (VA) to data and data services

Provide training for infrastructure users

Advertise RI services and engage RI users



Data services and data products



POLARIN will concentrate its efforts on improving the data landscape and the consumption of data

- A single-entry portal
- data services and products.
- Create data products from makers.



• VA to metadata, data and data services • Coordinate, harmonise, and optimise the implementation and integration of environmental databases that can be directly used by researchers and decision

Training for infrastructure users



Training for early career scientists and professionals





Safety training



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Training on data stewardship

POLARIN ADVISORY BOA









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Policy Officer for European Research Infrastructures at the Helmholtz Association

Head of the Research and Development Section at the European Space Agency.

Connection with other projects, forums, organisations













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Council of Managers of National Antarctic Programs

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