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POLAR
RESEARCH
INFRASTRUCTURE
NETWORK

POLAR RESEARCH INFRASTRUCTURE NETWORK

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University of Oulu

www.eu-polarin.eu

FUNDED BY THE
EUROPEAN UNION

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

POLARIN Consortium

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.**

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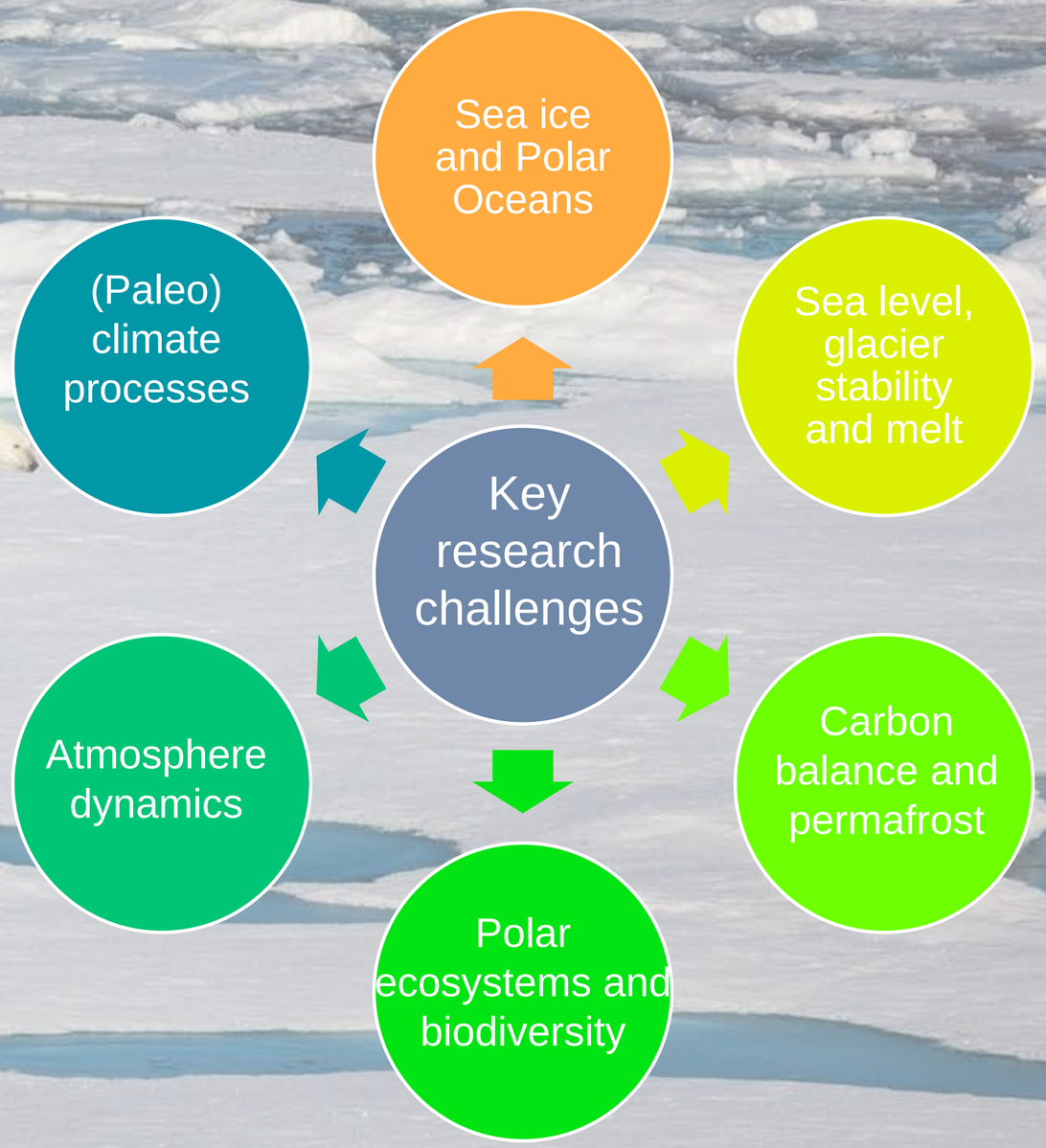

Objectives

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1.Enable science for understanding and predicting key processes in polar regions

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

1.Improve data services and provide customised data products

1.Provide virtual access (VA) to data and data services

1.Provide training for infrastructure users

1.Advertise RI services and engage RI users

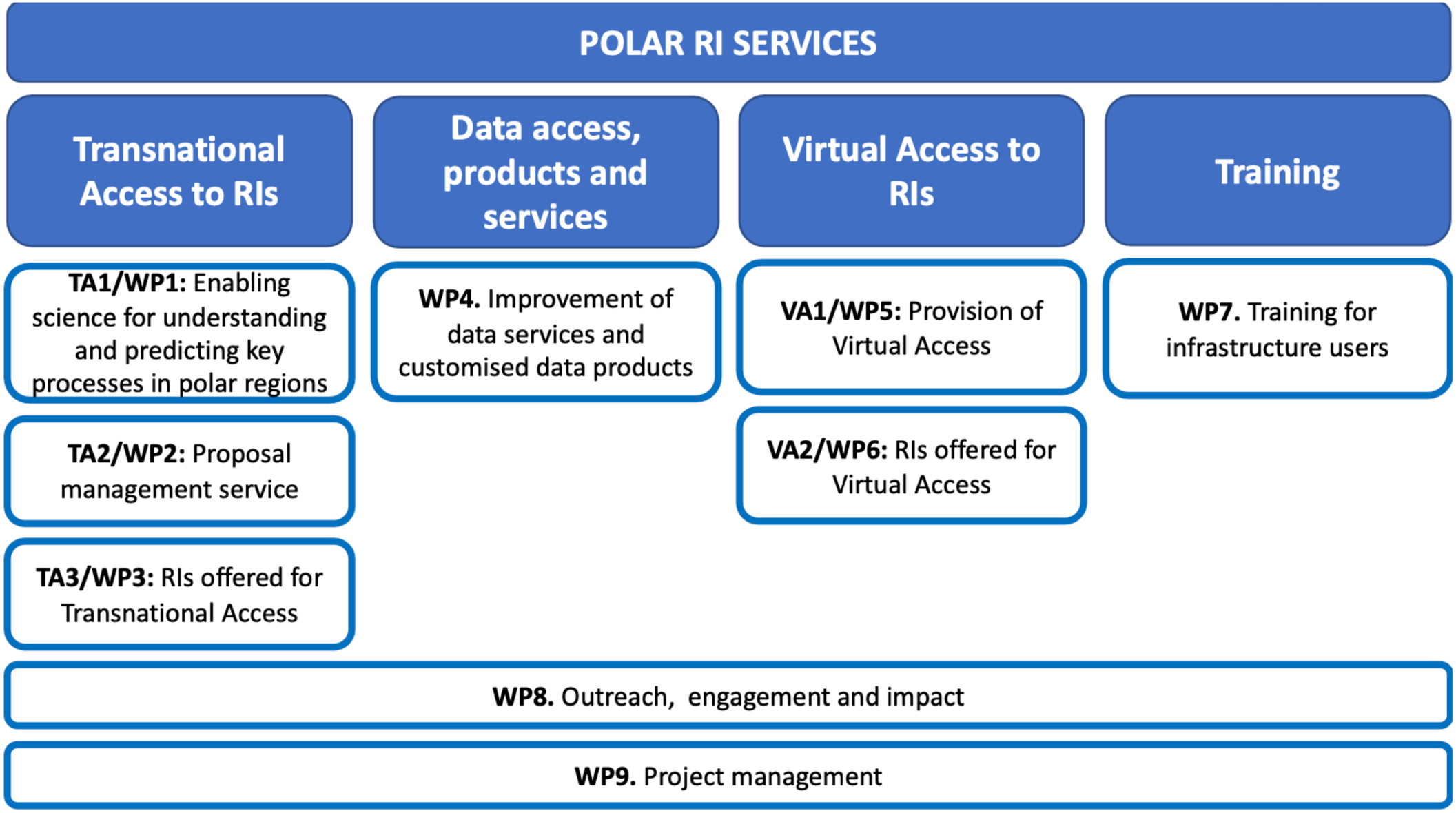
POLARIN will:

Integrate and combine the access to Arctic and Antarctic RI

Improve online services, data access and interoperability

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

Overall structure of the work plan



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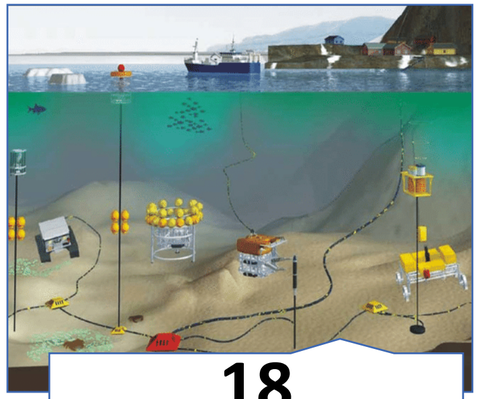
Access integration to **64** research infrastructures in **both poles**

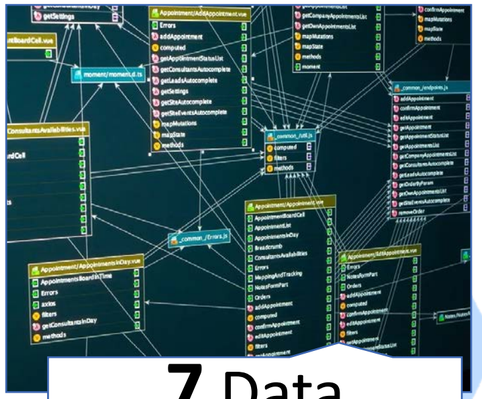
38
Research stations

12
Polar vessels



18
Observatories

4 Ice and sediment core repositories



7 Data infrastructures

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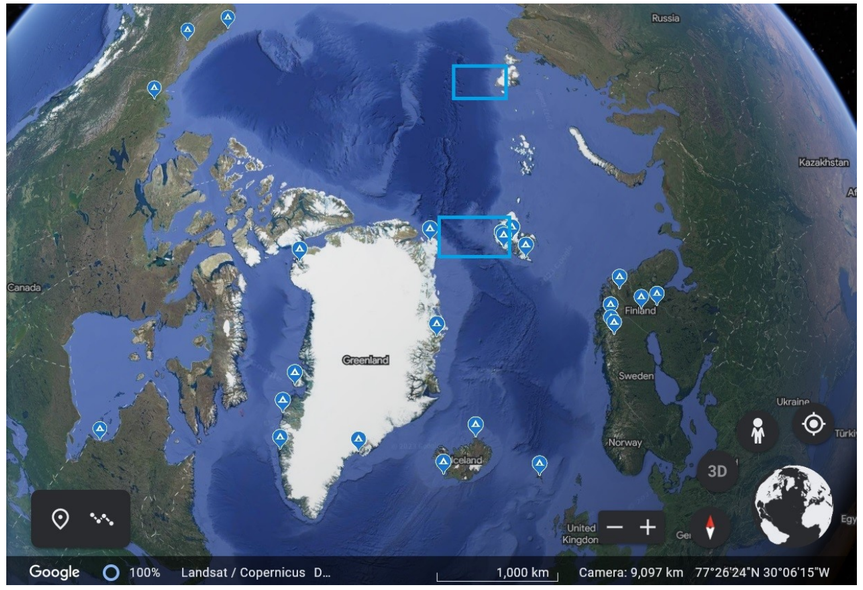
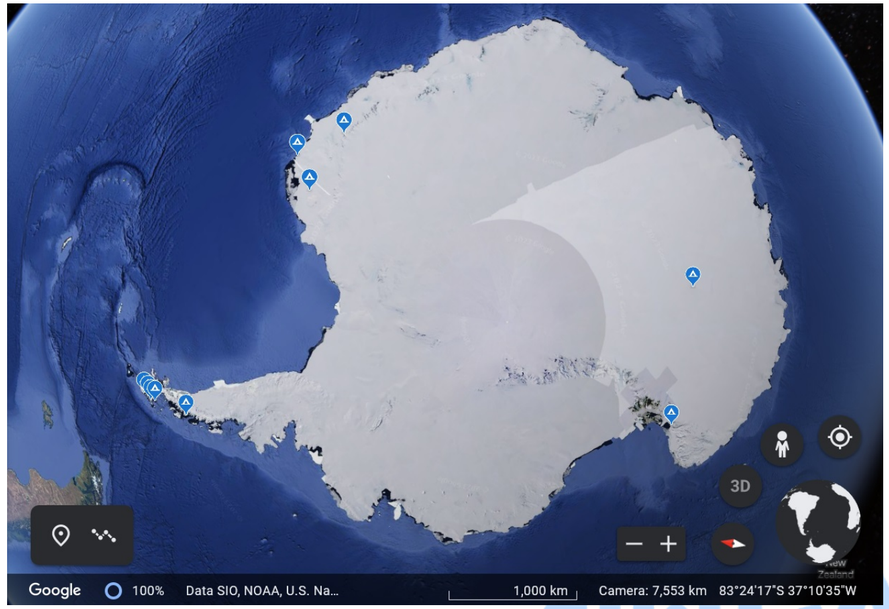
38
Research stations



27 Arctic stations



11 Antarctic stations

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12
Polar vessels

CCGS Amundsen, CA

RV Dana, DK

RVIB Laura Bassi, IT

Arni Fridriksson, IS

RV Kronprins Haakon, NO

Noosfera, UA

RV Celtic Explorer, IR

BIO Hespérides, ES

PRV Polarstern, DE

MV Le Commandant Charcot, FR

RS Karpuj, CL

TARA polar station, FR

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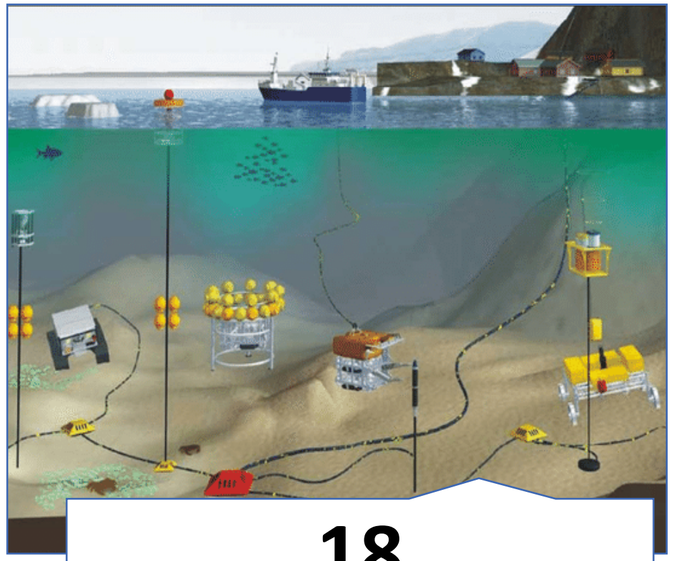

18

Observatories

- 1 deep-sea observatory (**FRAM**)
- 2 observational networks (**GIOS** and Greenland Ecosystem Monitoring)
- 15 key observatories associated to research stations

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4 Ice and sediment core repositories

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

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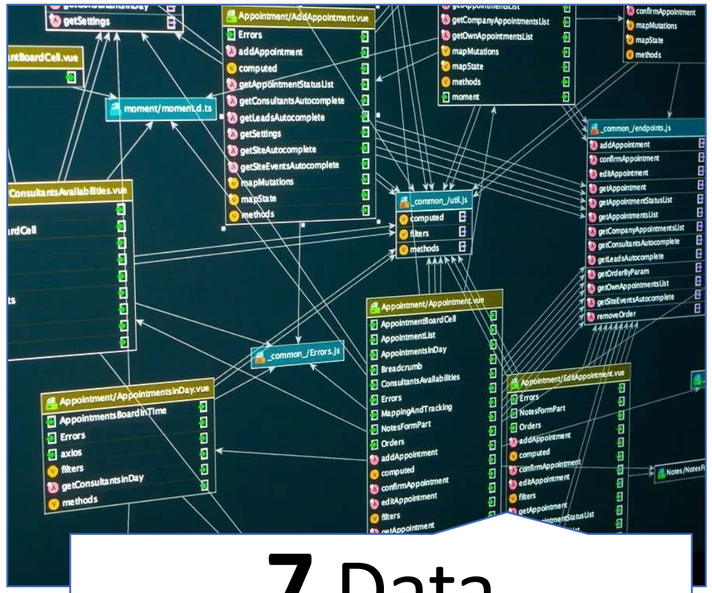

7 Data infrastructures

- 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

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Transnational Access

Transnational Access

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- 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

Virtual Access

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

Data services and data products

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

- **A single-entry portal**
- **VA to metadata, data and data services**
- **Coordinate, harmonise, and optimise** the implementation and integration of data services and products.
- **Create data products** from environmental databases that can be directly used by researchers and decision makers.

Training for infrastructure users

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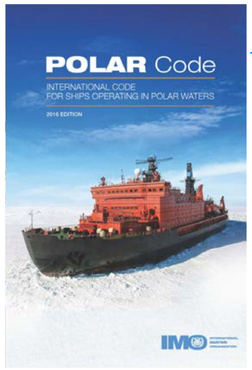
- Training for early career scientists and professionals

Training on data stewardship



Safety training

POLARIN ADVISORY BOARD

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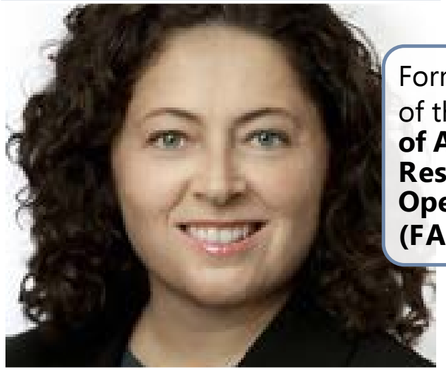
Jennifer Mercer
NSF



Former Chair of the **Forum of Arctic Research Operators (FARO)**

Juliet Hermes
SAPRI

Manager of the **South African Antarctic Programme (SAPRI)**

Nicolás Villacorta
Helmholtz

Policy Officer for **European Research Infrastructures at the Helmholtz Association**

Juan José Danobeitia
CSIC

Former **General Director of EMSO**

Diego Fernández
ESA

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

Connection with other projects, forums, organisations

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AQUARIUS

EU Polar Cluster

FORUM OF ARCTIC RESEARCH OPERATORS
FARO
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COMNAP
Council of Managers of National Antarctic Programs

esa

opernicus
Europe's eyes on Earth

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