

POLAR RESEARCH INFRASTRUCTURE NETWORK



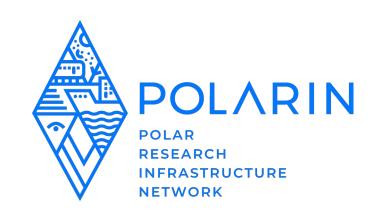
Verónica Willmott POLARIN Project Manager Alfred Wegener Institute Germany

www.eu-polarin.eu



Funding







15M€ - Horizon Europe



RI Services



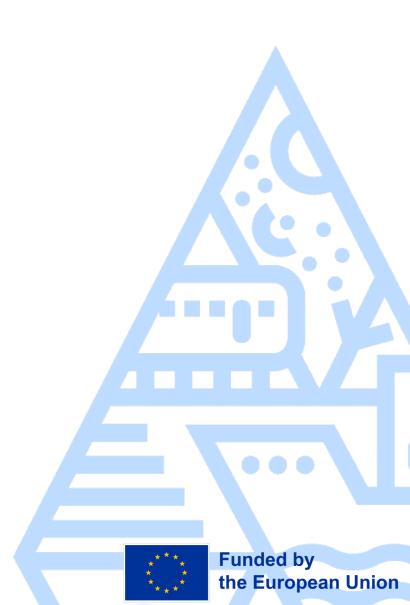




54 partners



64 RIs



Background





BUILDING ON PREVIOUS ACHIEVEMENTS



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

Sea ice and Polar Oceans

Effects of climate change on societies

Key research challenges

Sea level, glacier stability barlahmeetind permafrost

Atmosphere dynamics

Polar ecosystems and biodiversity

POLARIN project - Objectives



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



DATA



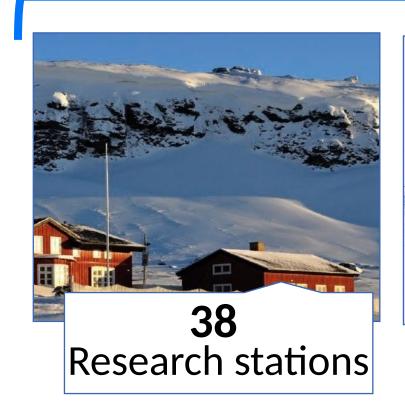


ACCESS



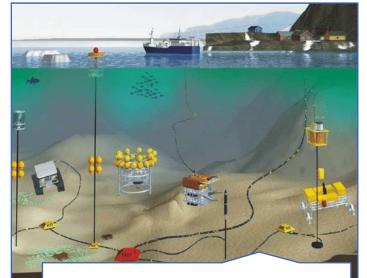
Access integration to 64 research infrastructures in **both poles**

TRANSNATIONAL ACCES

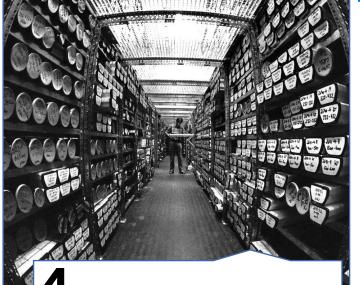




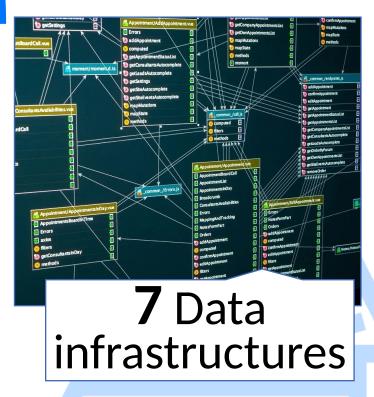
12 Polar vessels



18 Observatories



4 Ice and sediment core repositories



FULLY FUNDED ACCESS TO RESEARCH INFRASTRUCTURES FOR RESEARCH PROJECTS
ADDRESSING THE KEY RESEARCH QUESTIONS IN THE POLAR REGIONS



ACCESS - TA Call 2024



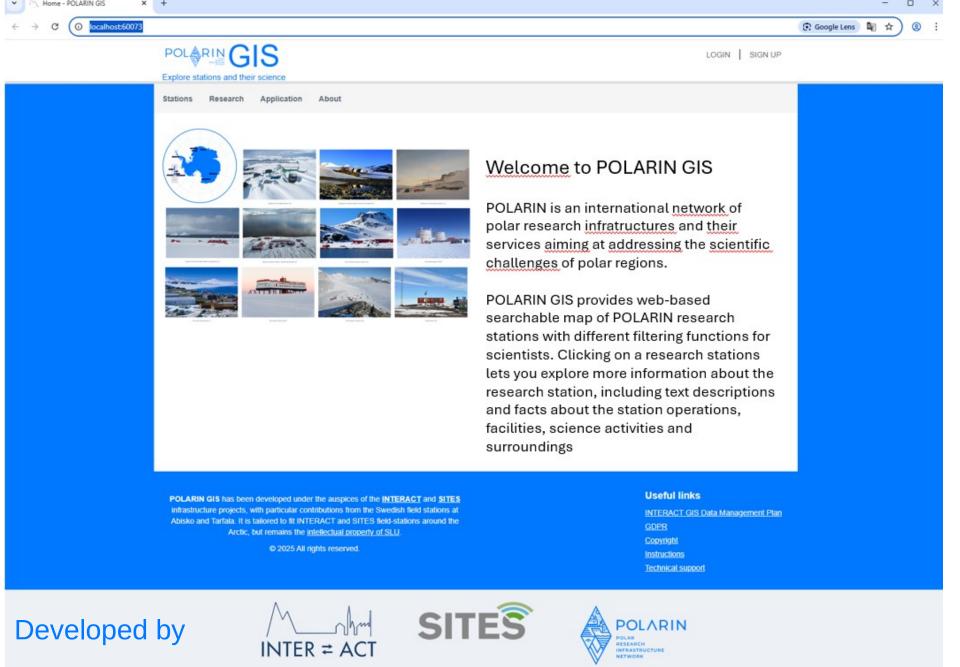
- 37 projects selected for funding!!!
- Terrestrial and marine, Arctic and Antarctic projects
- Multi-infrastructure, international cooperation
- Remote access, allowing the collection of multiple samples /data from different locations in one single project
- <u>https://eu-polarin.eu/first-call-funded-projects/</u>







https://www.polarin-gis.org





For RI Users and Operators

Online tool for sharing information about RI facilities and surroundings.

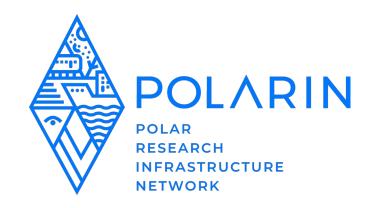
Managers and staff can access and edit information themselves.

The system can be modified to any organisation's needs.





TRAINING FOR RESEARCH INFRASTRUCTURE USERS

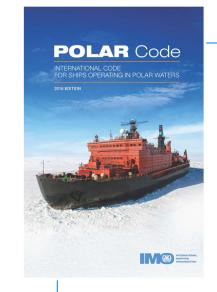




Training for early career scientists and professionals



Training on data stewardship



Safety training



Training resources and activities organised by POLARIN



Online training material, knowledge hub and brochures on polar research

- Planning for polar fieldwork
- Safety in polar fieldwork
- Data Stewardship
- Ethics in polar research
- Impact of polar research

The first resources will be available online by the end of this year.

Planning for polar fieldwork

esearch infrastructure in the Arctic and Antarctic



To secure safe and sustainable fieldwork POLARIN provides general guidance on: Polar fieldwork planning — Polar fieldwork safety — Reducing impacts of polar fieldwork — Engaging Indigenous Peoples and local communities — Data Management. This brochure toousses on planning polar fieldwork.

While it does not replace adequate training and the consultation of the issearch infrastructure with specific questions, it aims to provide a broad overview and guides you to in-depth resources that you should utilize when preparing for a stay at a research infrastructure.

The essentials

- Knoe the research infrastructure
- Develop a plan A. B and C for your researd
- Discuss how to work together
- er Assess and collecte date
- Assess and mitigate impacts
- r Learn about regular
- Prepare freight

Fieldwork can be is an important part of the research process. In the beautiful, wild but also unforgiving polar areas, it is essential to be well prepared to achieve a safe and efficient data collection addressing specific scientific aims.

Polar infrastructures have long experience with operating in the harsh and sometimes challenging environments, it is important to follow guidelines and operational procedures provided by the infrastructure to secure a safe and efficient productive stay, and you should never hesitate to ask for advice.

This brochure will help you remember the key considerations you should address when planning fieldwork in a polar environment.

Know the infrastructure and its environment

Infrastructures have often provide site manuals or guidelines for visitors and usually often share a wealth of information on their websites. Reed this material carefully and use the information to carefully thoroughly plan your activities and assess risks.

- Allocate enough time for unforeseen events and remain flexible. Have a plan A, B and , C (and more if possible). D, etc., as climate and environmental conditions can be extreme and change quickly, impacting opportunities the timing, location and procedures to do conduct research in accordance with your plan A.
- Having multiple plans is especially relevant when working on ships vessels where weather and ice conditions may after ship routes and stations.



Mental and physical preparedness, good planning, effective communication and proper equipment to prevent incidents from happening is a much better strategy than having to deal with the consequences of an accident.





Training resources and activities organised by POLARIN



Webinar 2025:

The Recording is available online at

vimeo.com/apecs/polarin-2025

Webinar 2026:

Save the date!

9 April 2026 and 16 April 2026.



DATA SERVICES AND DATA PRODUCTS



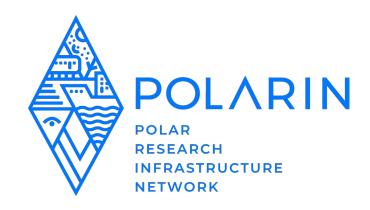


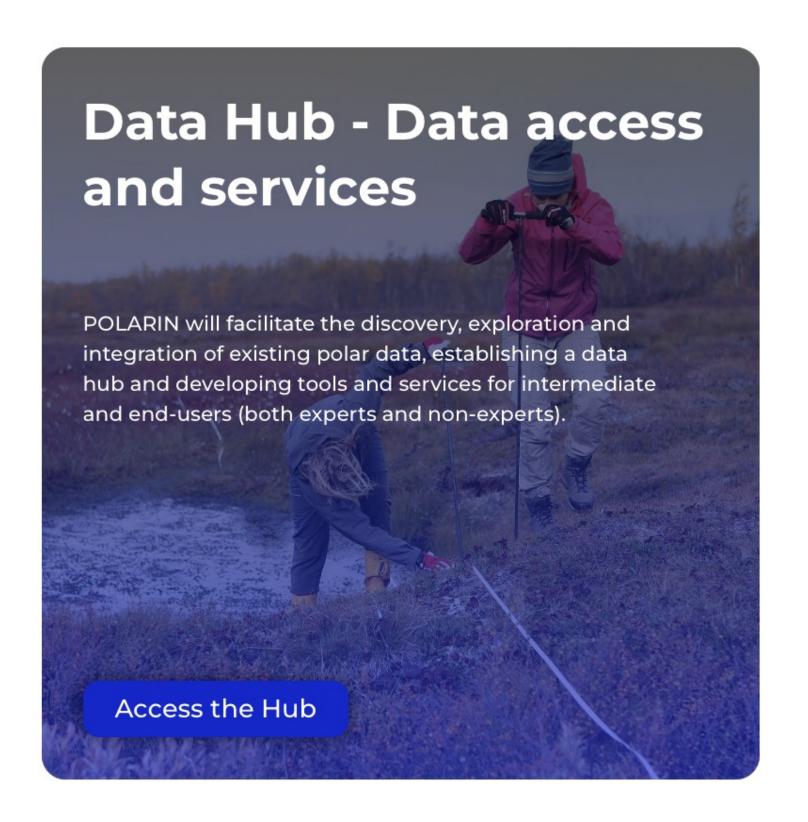
POLARIN improves the data landscape and the consumption of data

- A single-entry portal to access polar data
- VA to metadata, data and data services
- 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.



POLARIN DATA HUB - Beta





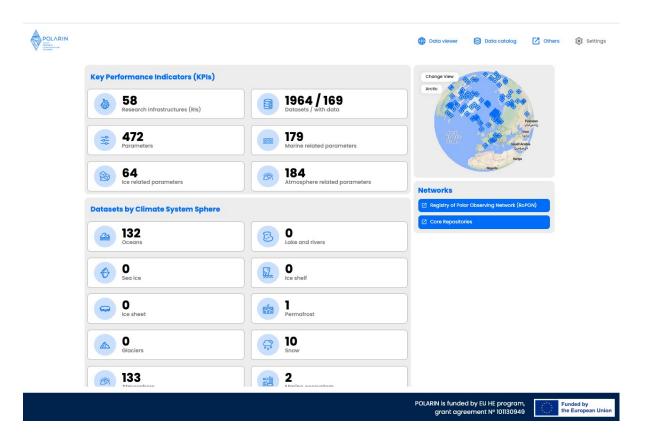
https://s4polarin.eu/#/

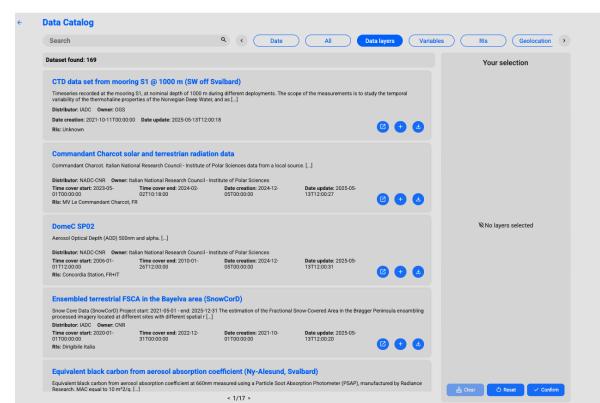
POLARIN Data HUB is a framework that organizes the legacy of resources facilitating the access, use, reuse and dissemination of data

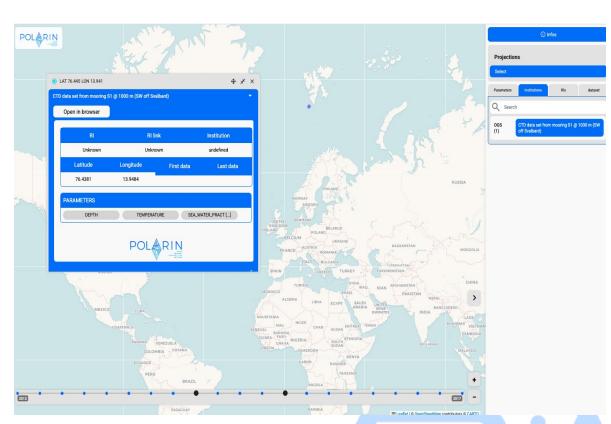


POLARIN DATA HUB - Beta









- 1) an overview of the availble resources (and links to services)
- 2) shopping basket to fine tune selection
- 3) viewer to pre-view/download
- 4) more soon...



POLARIN Consortium



























UiT Norges arktiske universitet











Norsk institutt for luftforskning Norwegian Institute for Air Research





Instituto de Geografia e Ordenamento do Território UNIVERSIDADE DE LISBOA

















































































Contact Us

Project Coordinator

Nicole Biebow:

Nicole.Biebow@awi.de

Project Manager

Verónica Willmott:

Veronica.Willmott@awi.de



