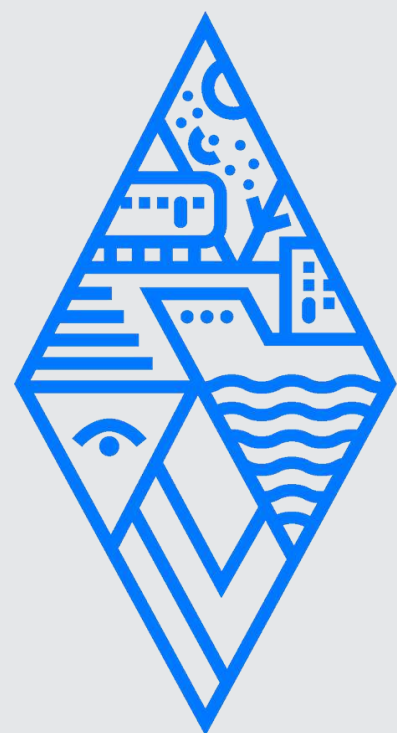


Accessing research infrastructures in the polar regions

www.eu-polarin.eu



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POLARIN

POLAR
RESEARCH
INFRASTRUCTURE
NETWORK

**POLAR RESEARCH
INFRASTRUCTURE
NETWORK**

www.eu-polarin.eu

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:



52 partners

Budget: M14,6€

March 2024 – February 2029



FUNDED BY THE
EUROPEAN UNION

Background



2009-2023



2011-2024



2018-2022



2024-2028



2024-2029



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EUROPEAN UNION

Importance of accessing research infrastructures in the Polar Regions



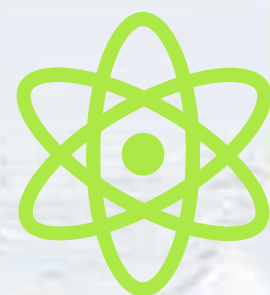
Climate Change Research



Understanding the Global Climate System



Biodiversity and Ecosystem Studies



Scientific Collaboration and Innovation



Cultural and Indigenous Knowledge

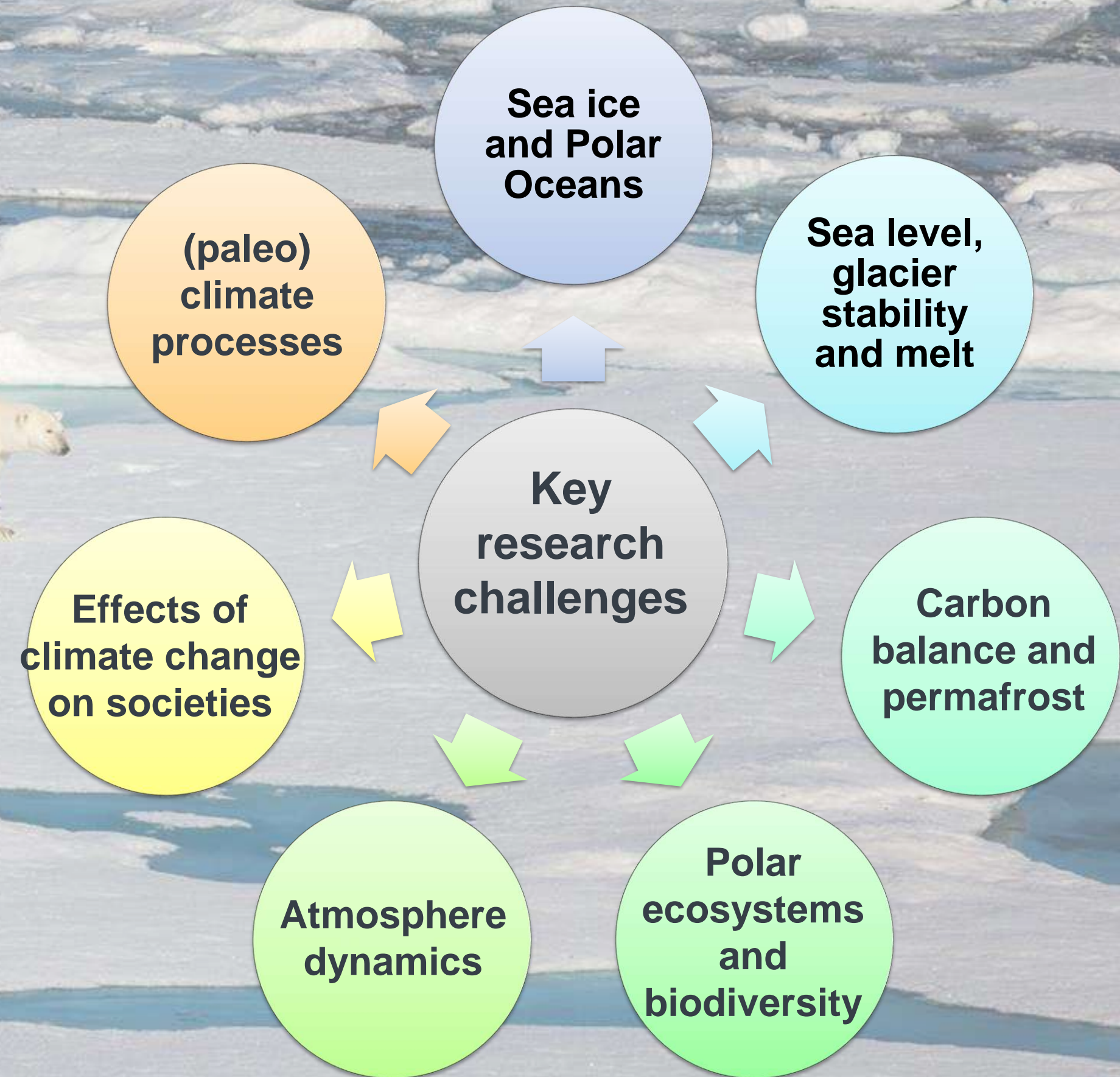


Education and Public Awareness

POLARIN

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.**



Objectives

POLARIN
will



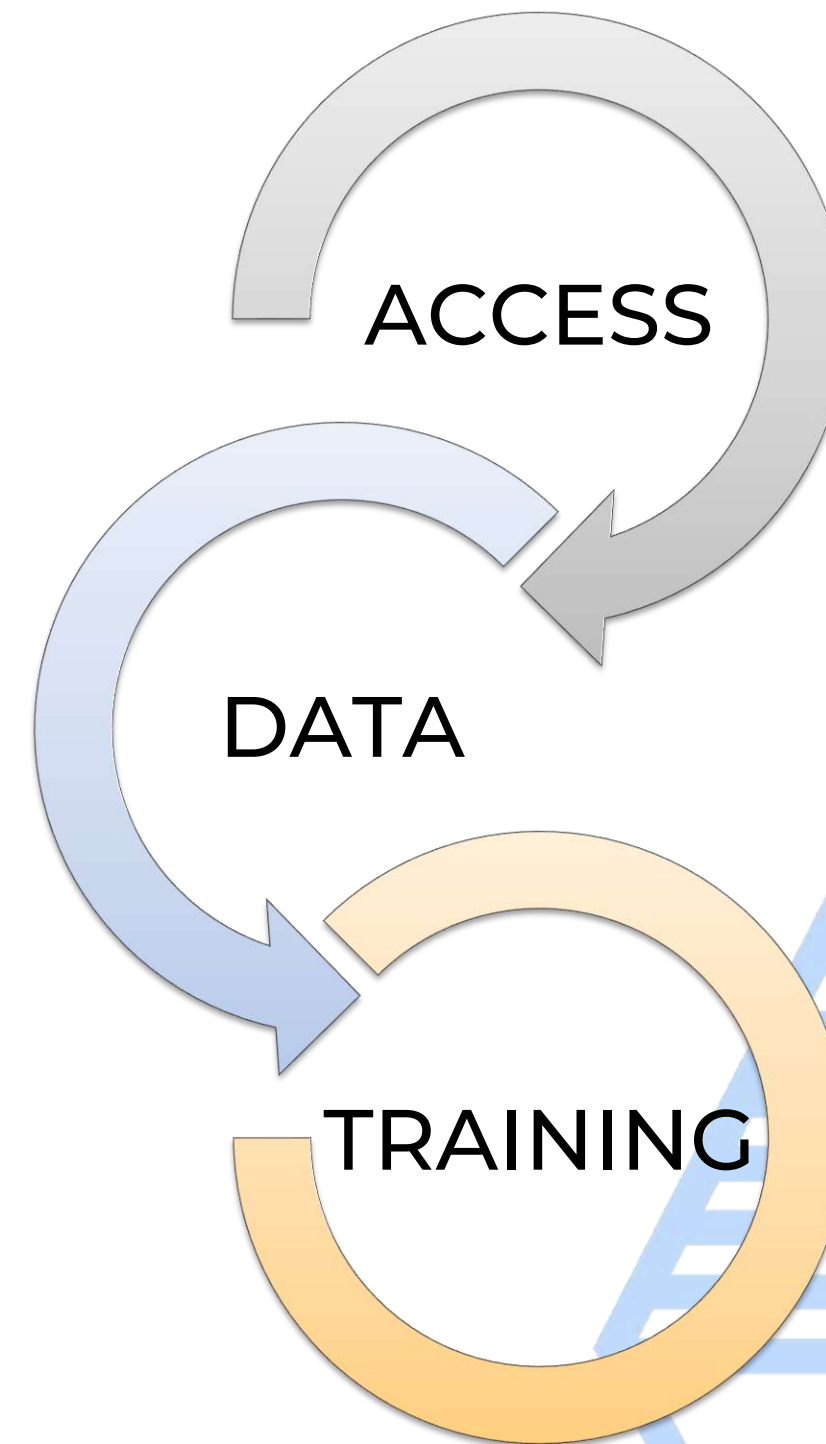
Integrate and combine the
access to Arctic and
Antarctic RI



Improve online services,
data access and
interoperability



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



POLARIN RESEARCH INFRASTRUCTURE



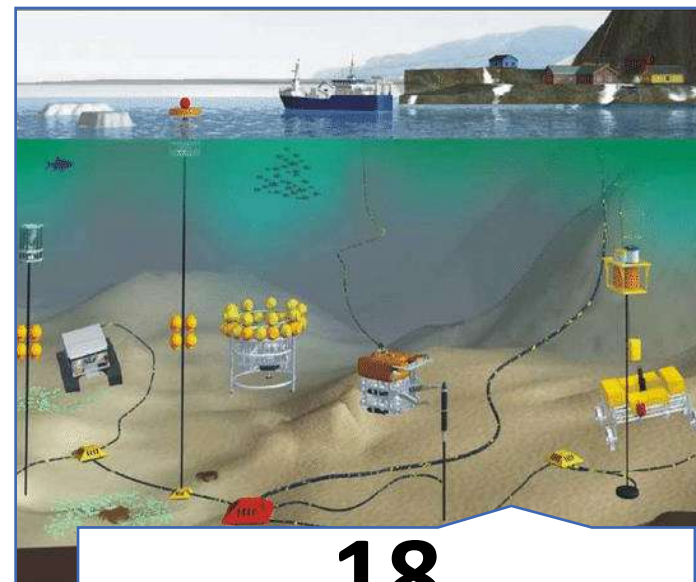
Access integration to **64** research infrastructures in **both poles**



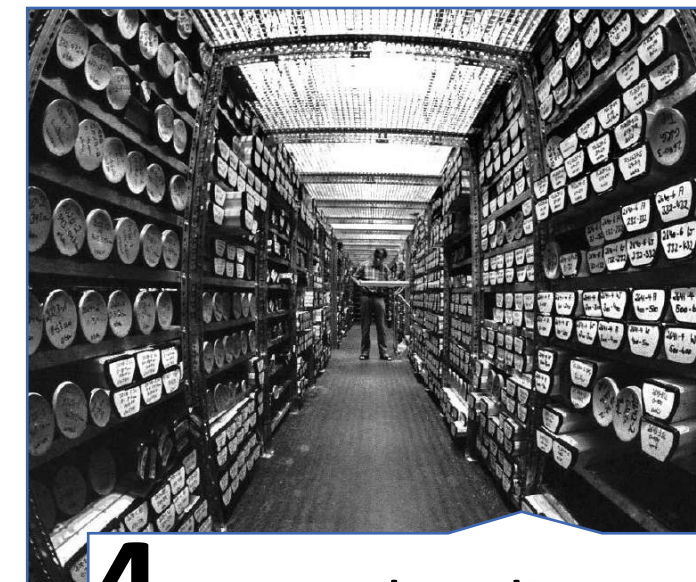
38
Research stations



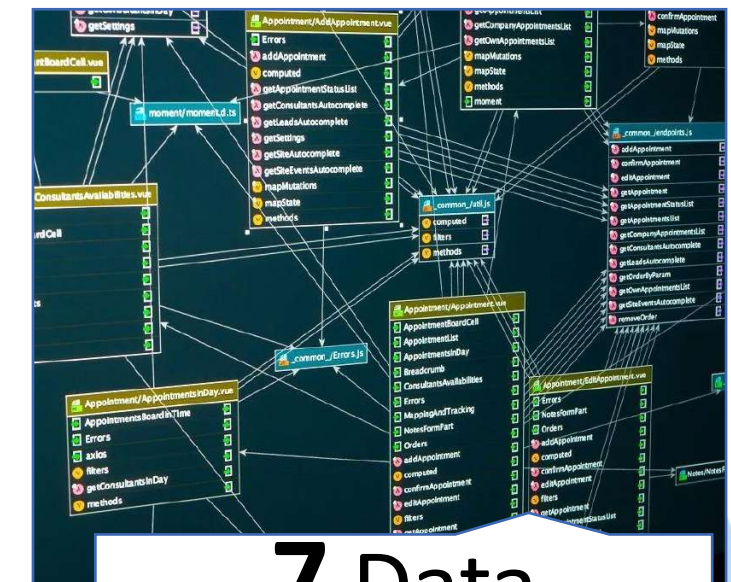
12
Polar vessels



18
Observatories



4 Ice and sediment
core repositories

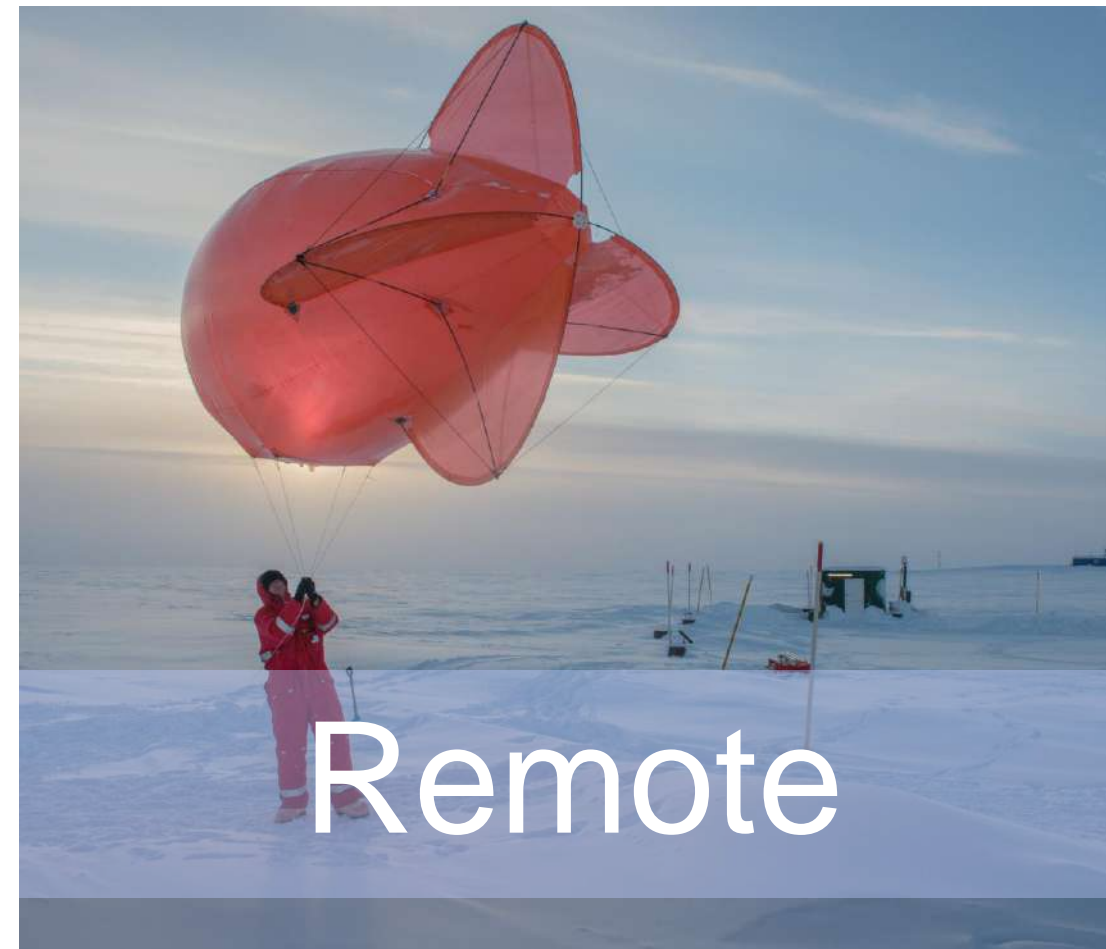


7 Data
infrastructures

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

TYPES OF ACCESS TO RI

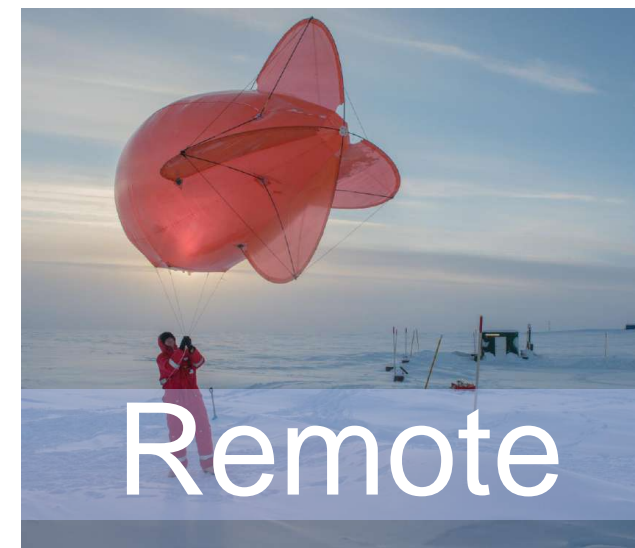
Transnational Access



Virtual Access



Transnational Access



- Proposal based, Challenge driven, in support of excellent science
- In support of international cooperation and large scale initiatives
- Access to RIs from other countries – Transnational Access
- Up to 20% of access units for non-EU users
- If granted, access to RI and travel expenses are covered by the project



**1st POLARIN call for proposals for
transnational access to RIs
(Arctic and Antarctic)
to open**

END OF SEPTEMBER 2024

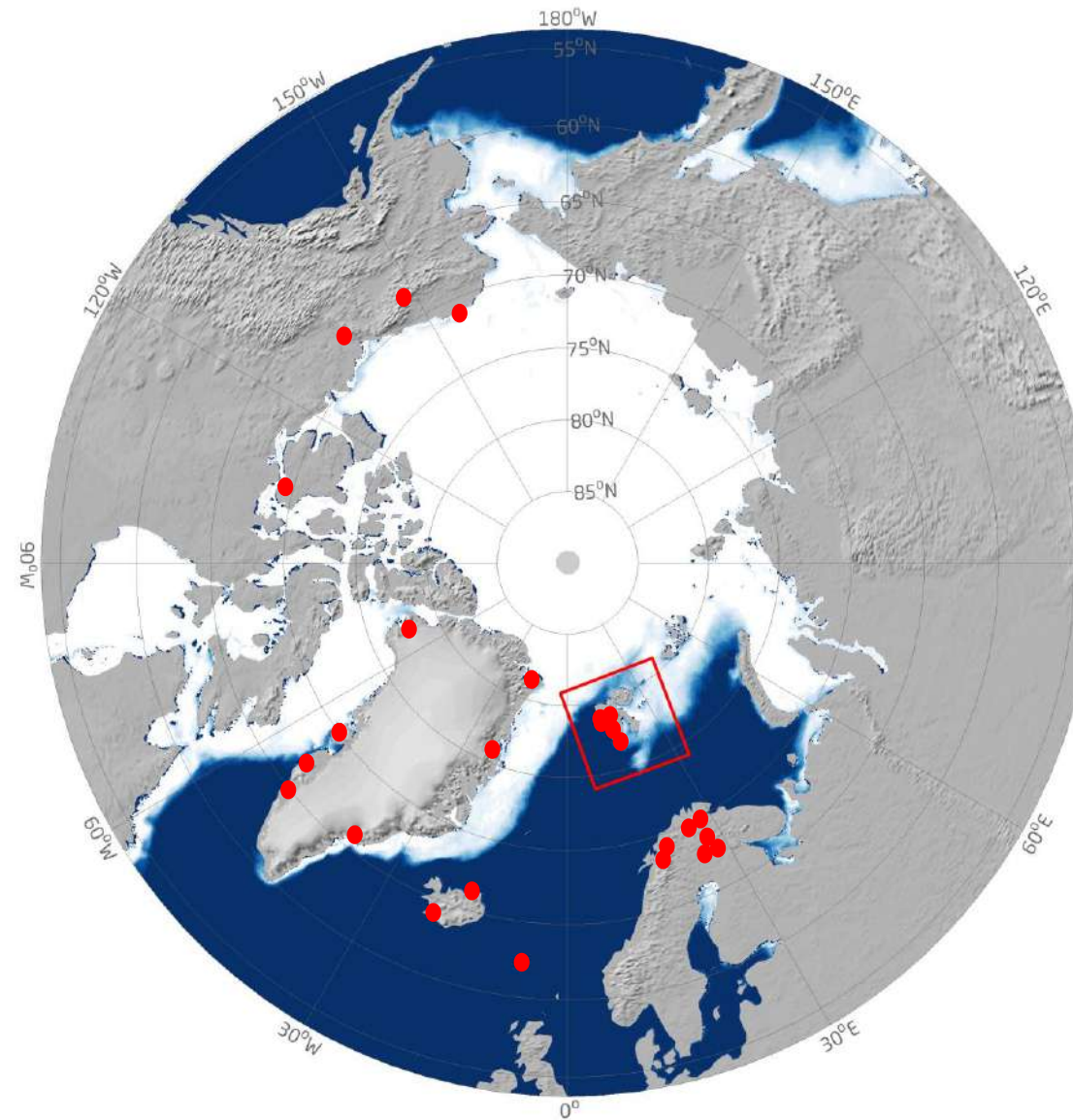
(And then annually for selected infrastructures)



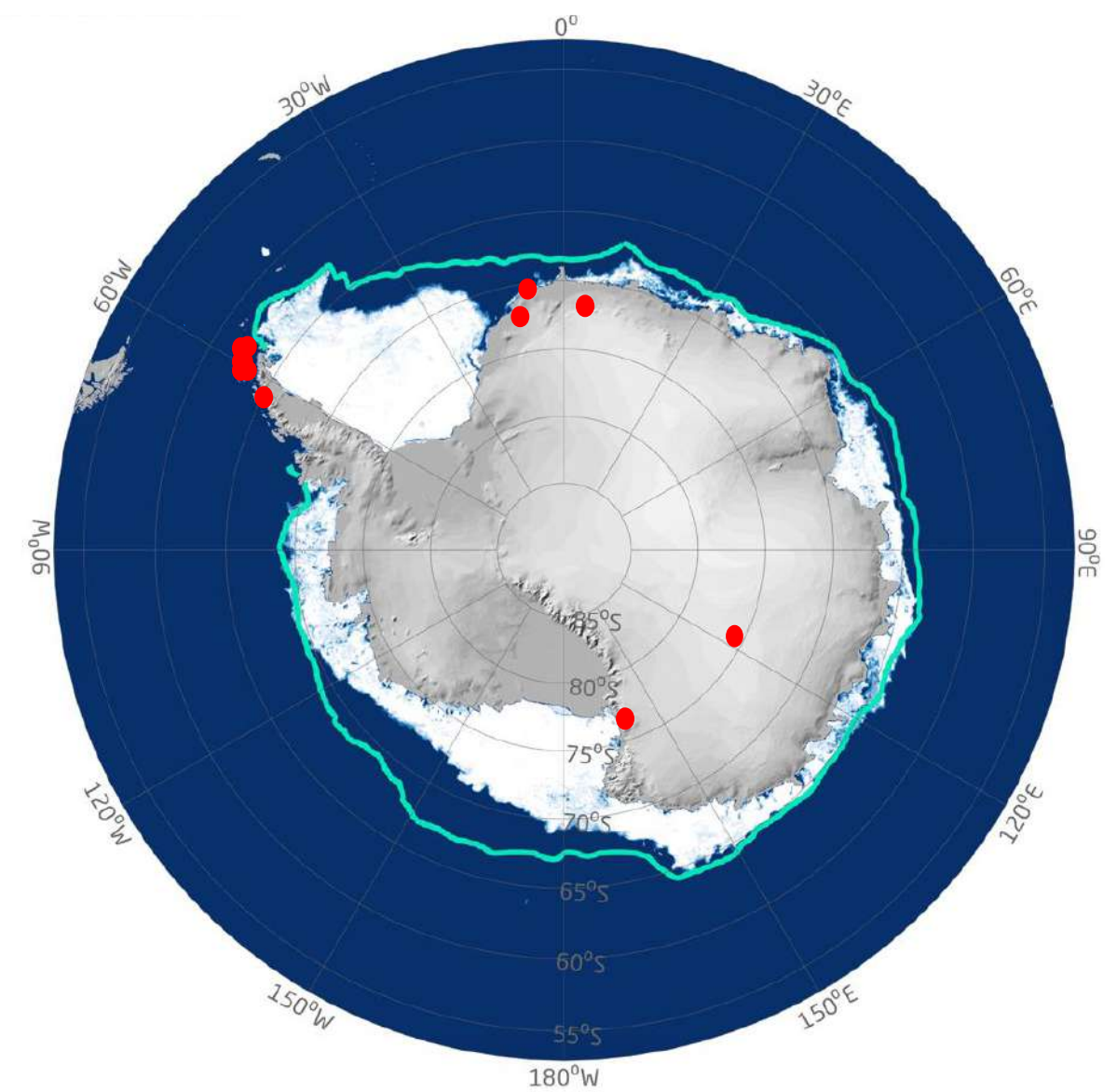
POLARIN Infrastructure



38
Research stations



27 Arctic stations



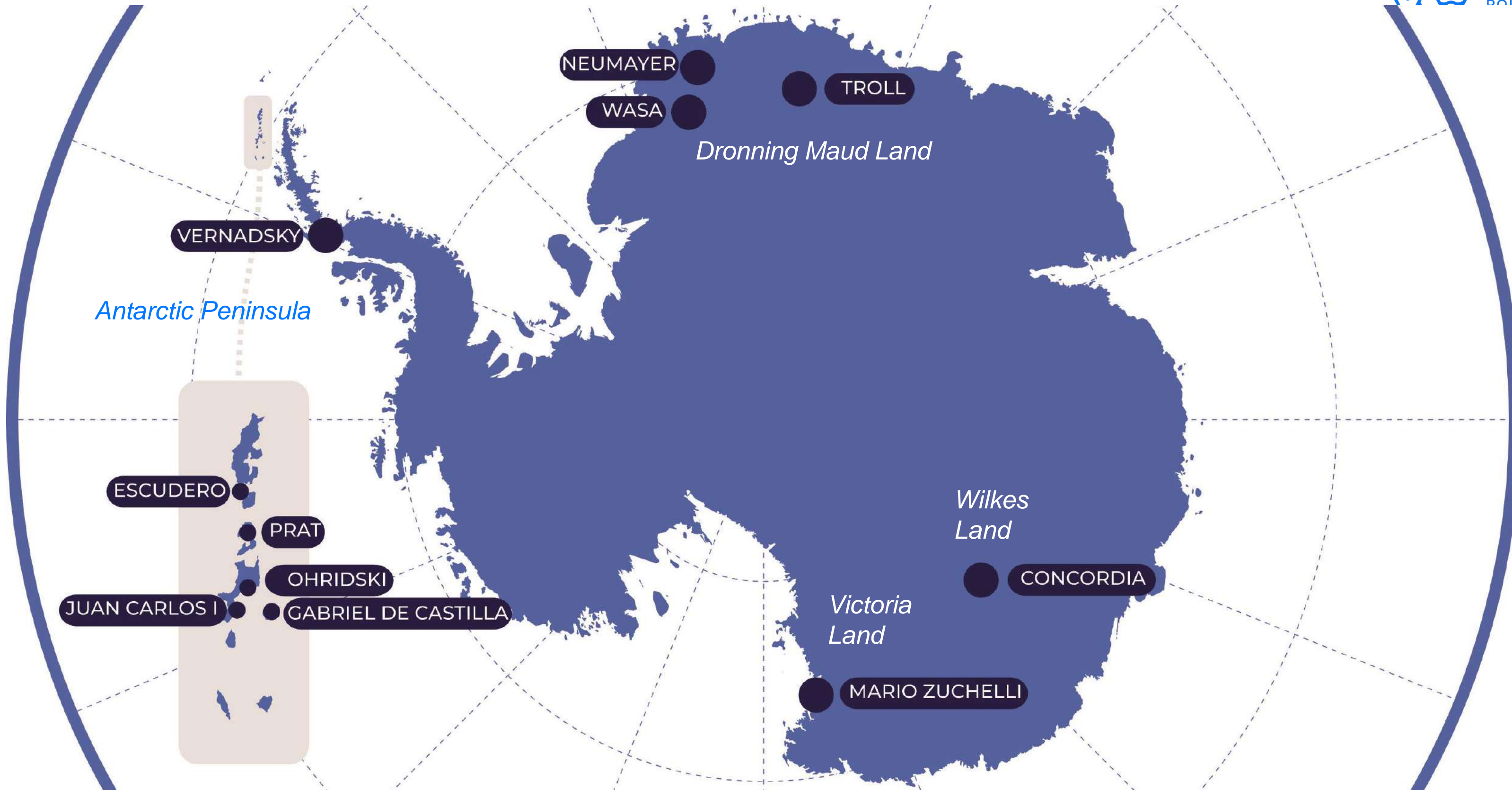
Sensor: AMSR2

11 Antarctic stations

POLARIN Arctic Research Stations



POLARIN Antarctic Research Stations



POLARIN Infrastructure



12
Polar vessels

CCGS Amundsen, CA

Arni Fridriksson, IS

RV Celtic Explorer, IR

MV Le Commandant Charcot, FR

RV Dana, DK

RV Kronprins Haakon, NO

BIO Hespérides, ES

RS Karpuj, CL

RVIB Laura Bassi, IT

Noosfera, UA

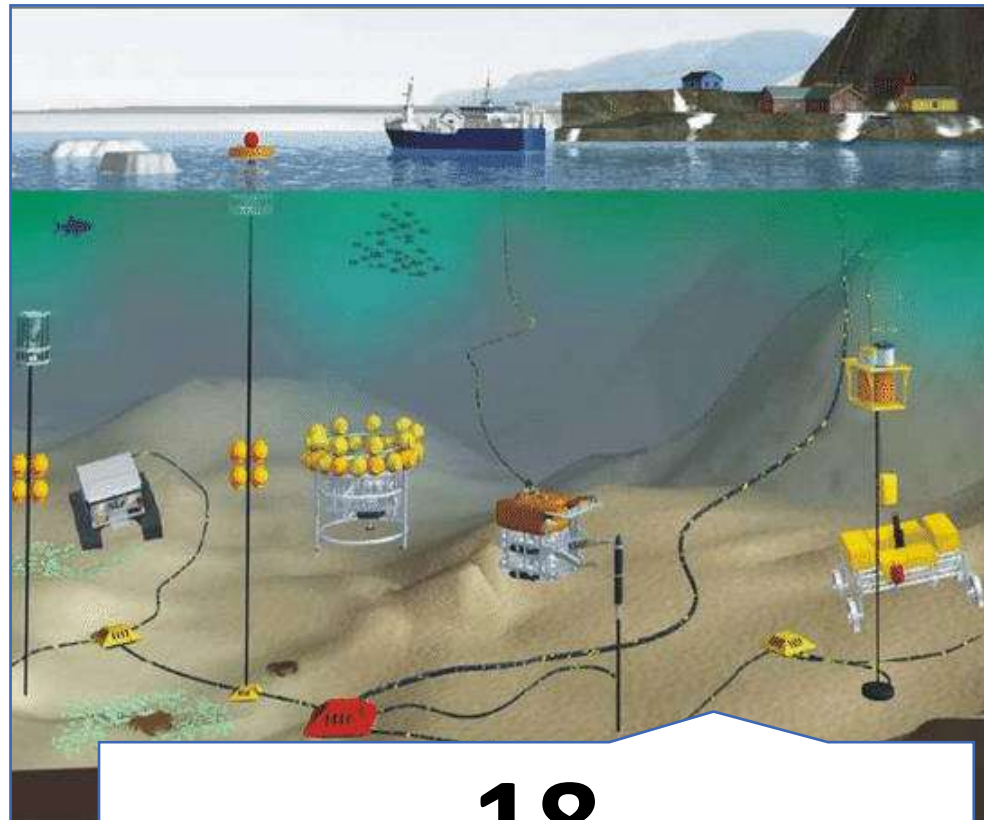
PRV Polarstern, DE

TARA polar station, FR

 ARCTIC
 ANTARCTIC
 TWO POLES



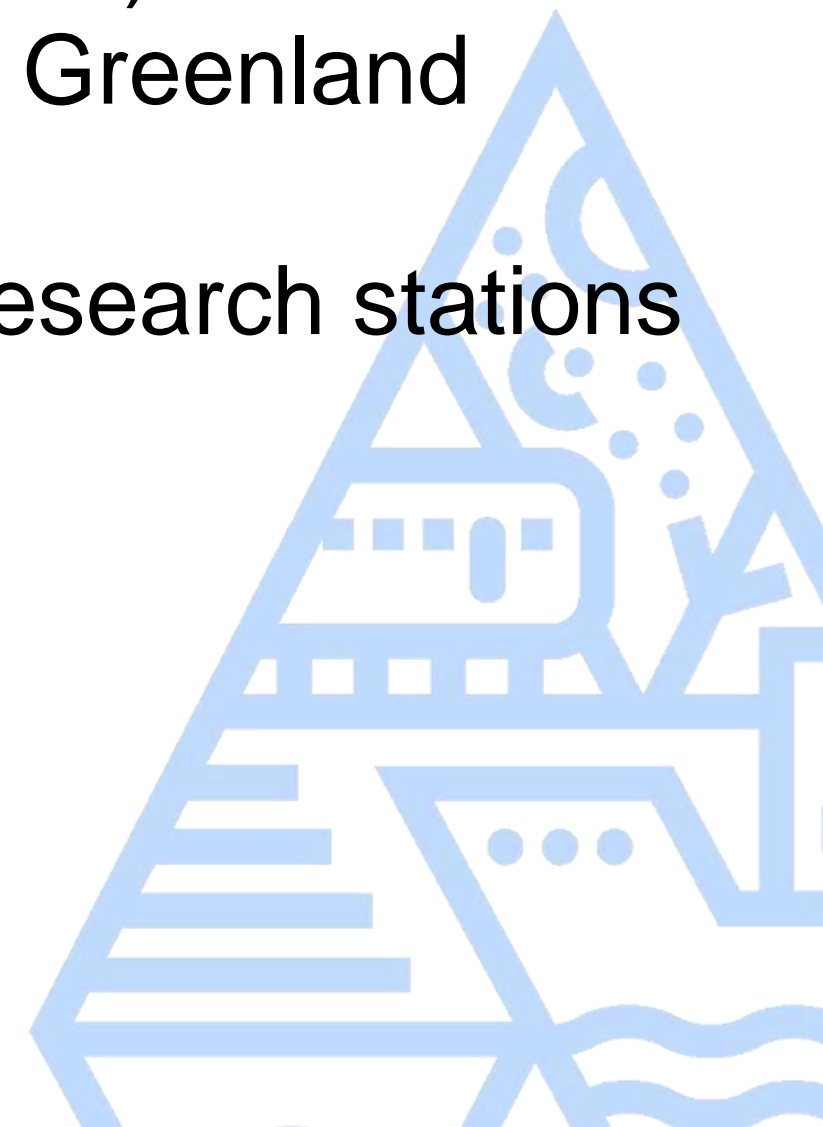
POLARIN Infrastructure



18

Observatories

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

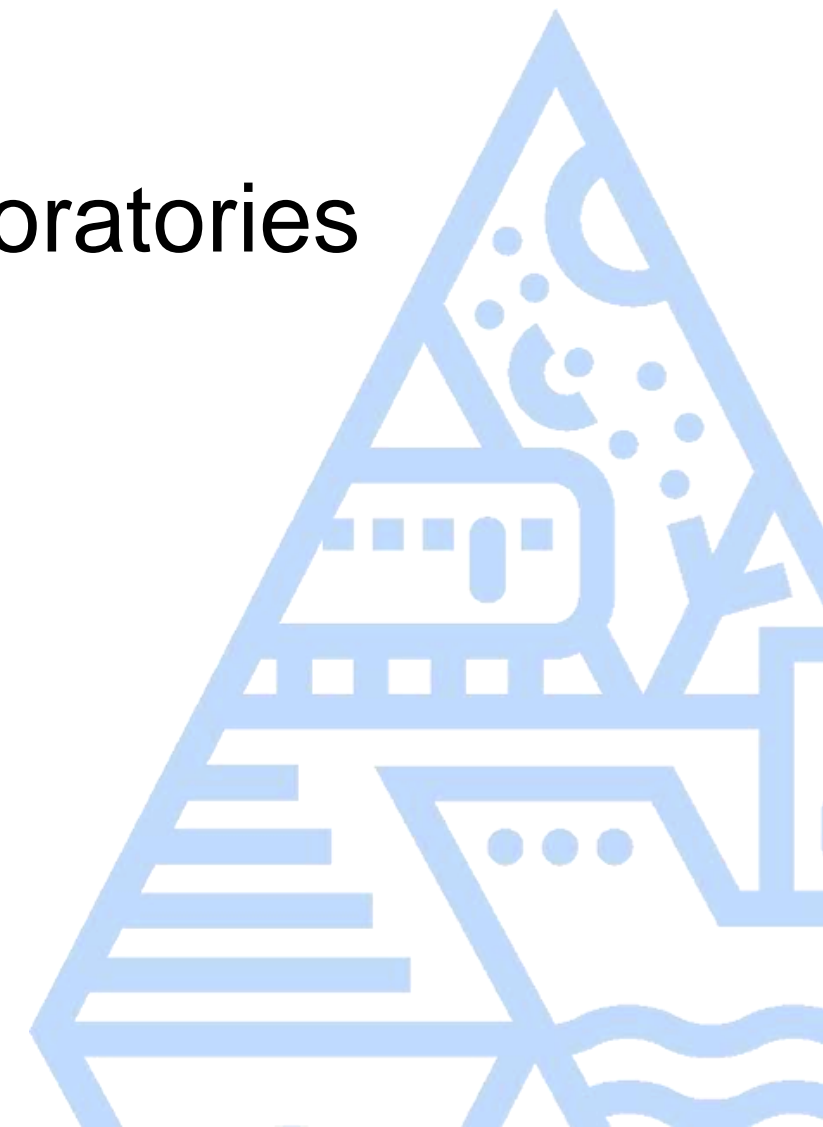


POLARIN Infrastructure



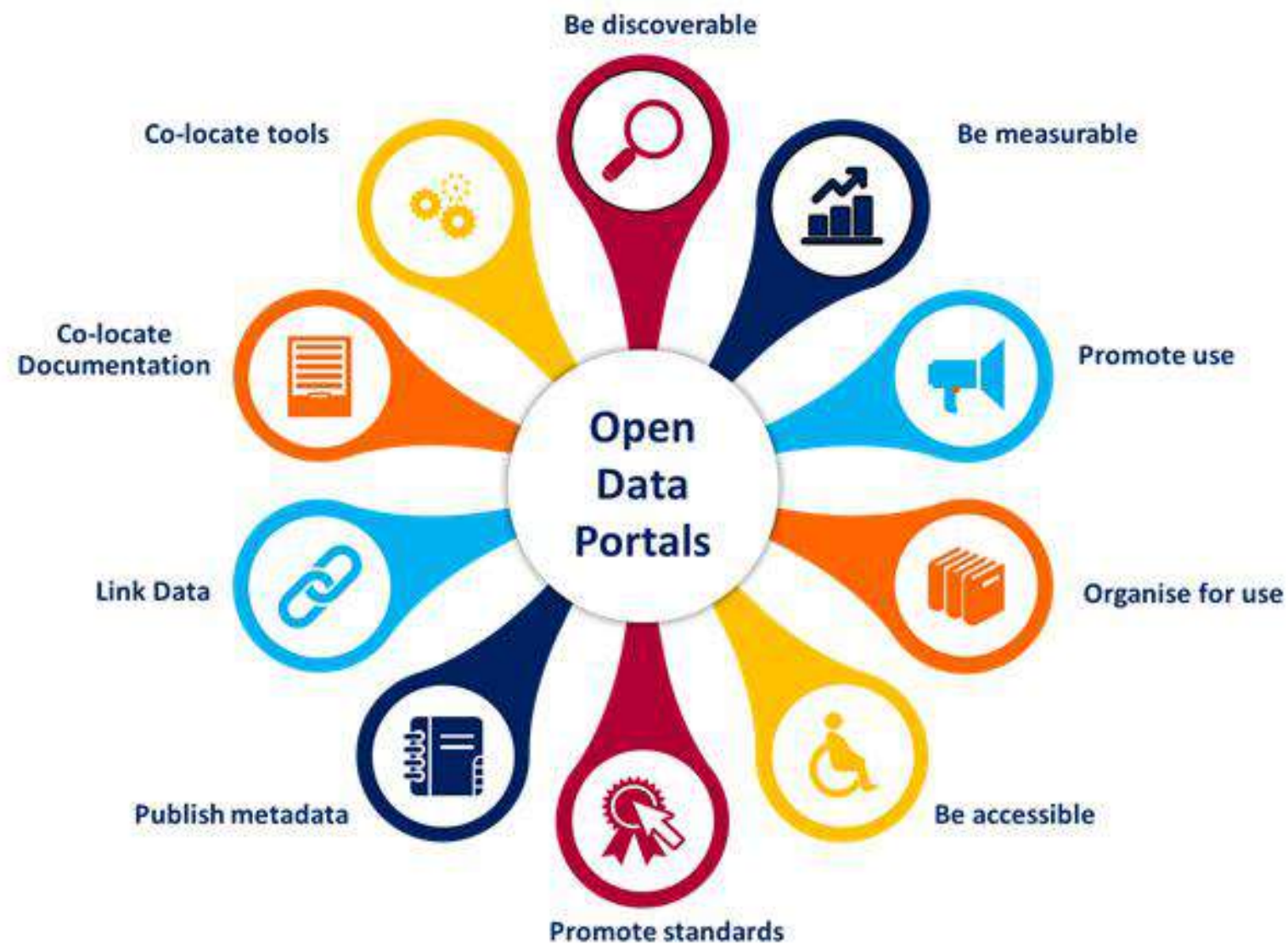
4 Ice and sediment core repositories

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



Data services and data products

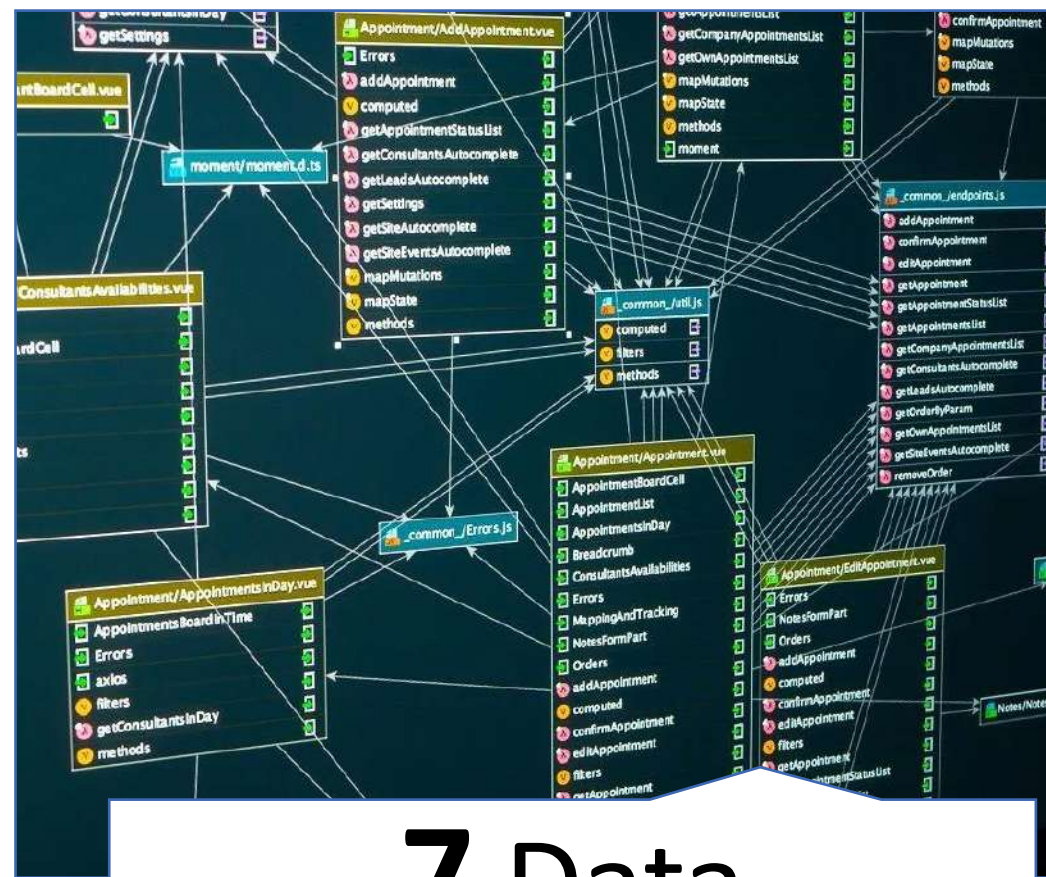
Improving the data landscape and the consumption of data



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

Virtual access portal opening soon!

POLARIN Infrastructure



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



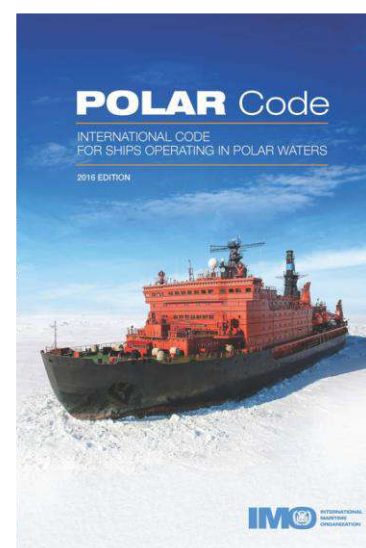
Training for infrastructure users



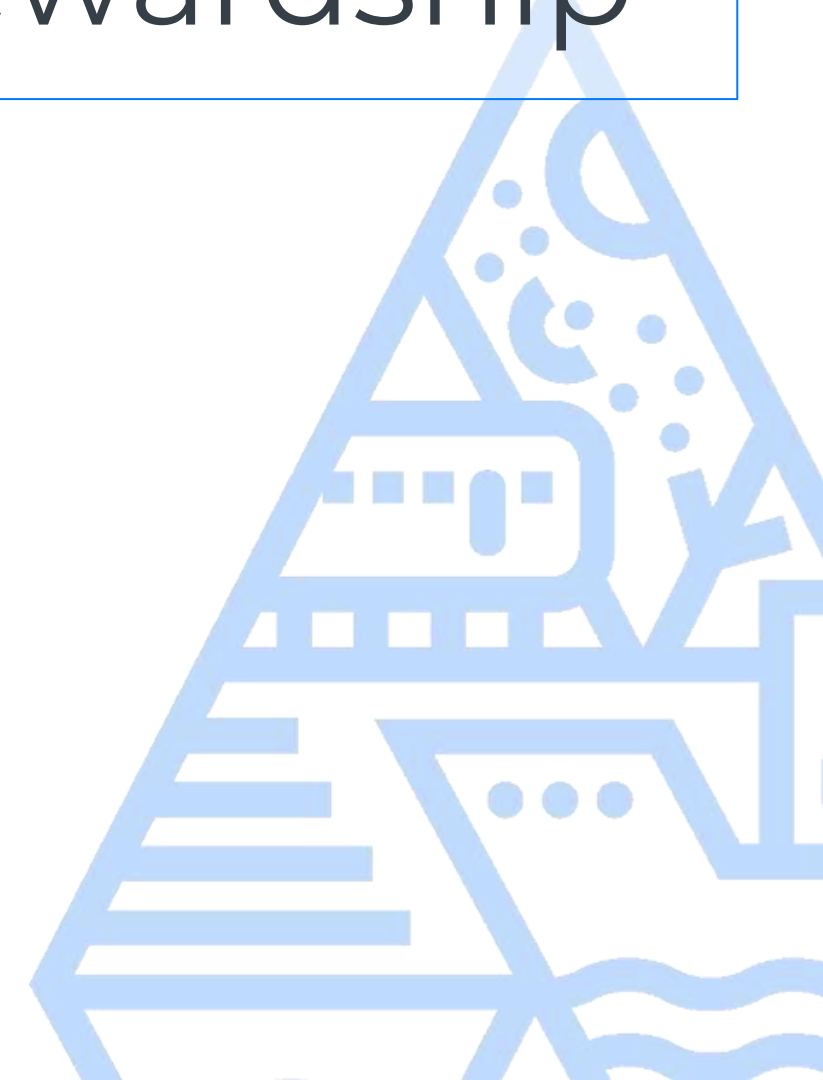
Training for early career scientists and professionals



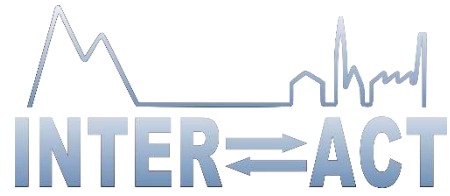
Training on data stewardship



Safety training



POLARIN Consortium



AARHUS UNIVERSITY



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE



UNIVERSITY OF COPENHAGEN



EUROPEAN POLAR BOARD



UiT Norges arktiske universitet



SIOS



Norsk institutt for luftforskning
Norwegian Institute for Air Research



STATE INSTITUTION NATIONAL ANTARCTIC SCIENTIFIC CENTER
Ministry of Education and Science of Ukraine



Instituto de Geografia e Ordenamento do Território
UNIVERSIDADE DE LISBOA



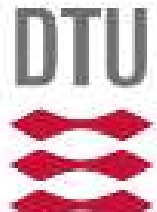
POLAR OPERATION



Ministerio de Relaciones Exteriores



Helmholtz Centre POTSDAM



INSTITUT POLAIRE FRANÇAIS
PAUL-ÉMILE VICTOR



PONANT



MARINE & FRESHWATER RESEARCH INSTITUTE



Greenland Institute of Natural Resources



POLARFORSKNINGS SEKRETARIATET
SWEDISH POLAR RESEARCH SECRETARIAT



PEKINGARSETUR SUÐURNESJA
Sudurnes Science and Learning Center



Danmarks Meteorologiske Institut



UNIVERSITÉ LAVAL



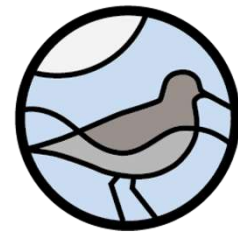
UNIVERSITY OF TURKU



TJÓÐSAVNIÐ



CSIC
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RIF Field Station



Stockholm University



Instytut Geofizyki Polskiej Akademii Nauk



UNI W TORUNIU
UNIWERSYTET MIKOŁAJA KOPERNIKA W TORUNIU



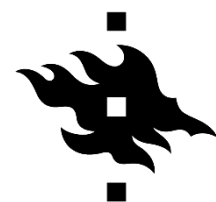
UNIVERSITY of ALASKA
Many Traditions One Alaska



Foras na Mara
Marine Institute



UK Research and Innovation



UNIVERSITY OF HELSINKI



FINNISH METEOROLOGICAL INSTITUTE



UIC SCIENCE



Conservation of Arctic Flora and Fauna

Fondation taraocéan
explorer et partager



ACTRiS Exploring the Atmosphere

Contact Us

Project Coordinator

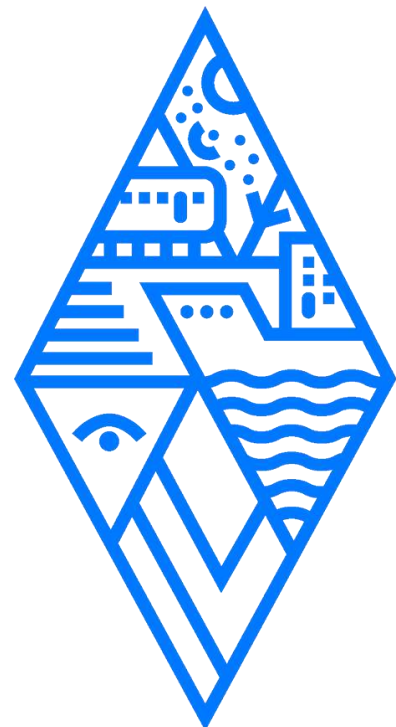
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