



POLARIN

POLAR
RESEARCH
INFRASTRUCTURE
NETWORK

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INFRASTRUCTURE
NETWORK

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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



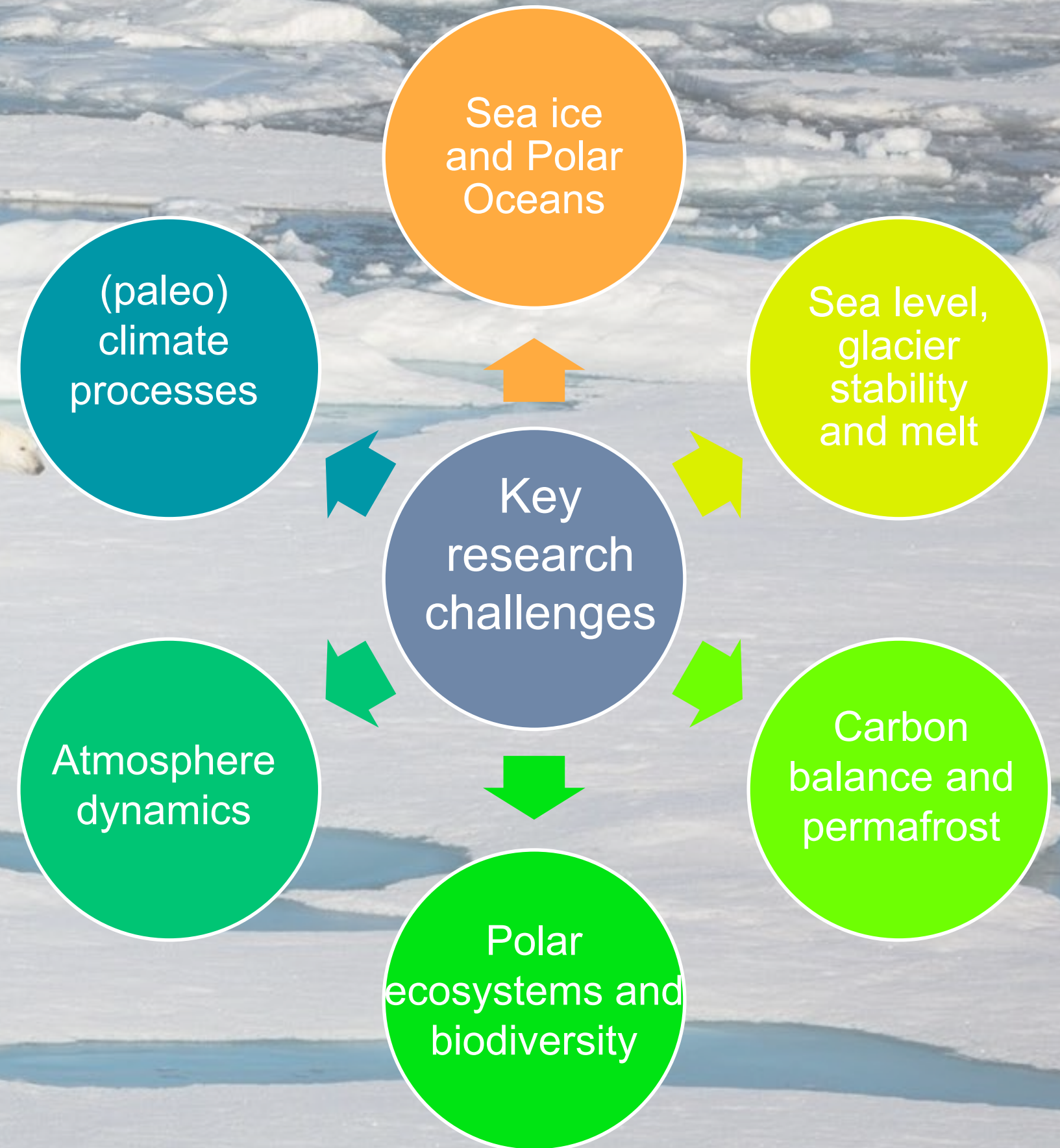
Overall aim

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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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.



Polarin will:



Integrate and combine the access to Arctic and Antarctic RI



Improve online services, data access and interoperability



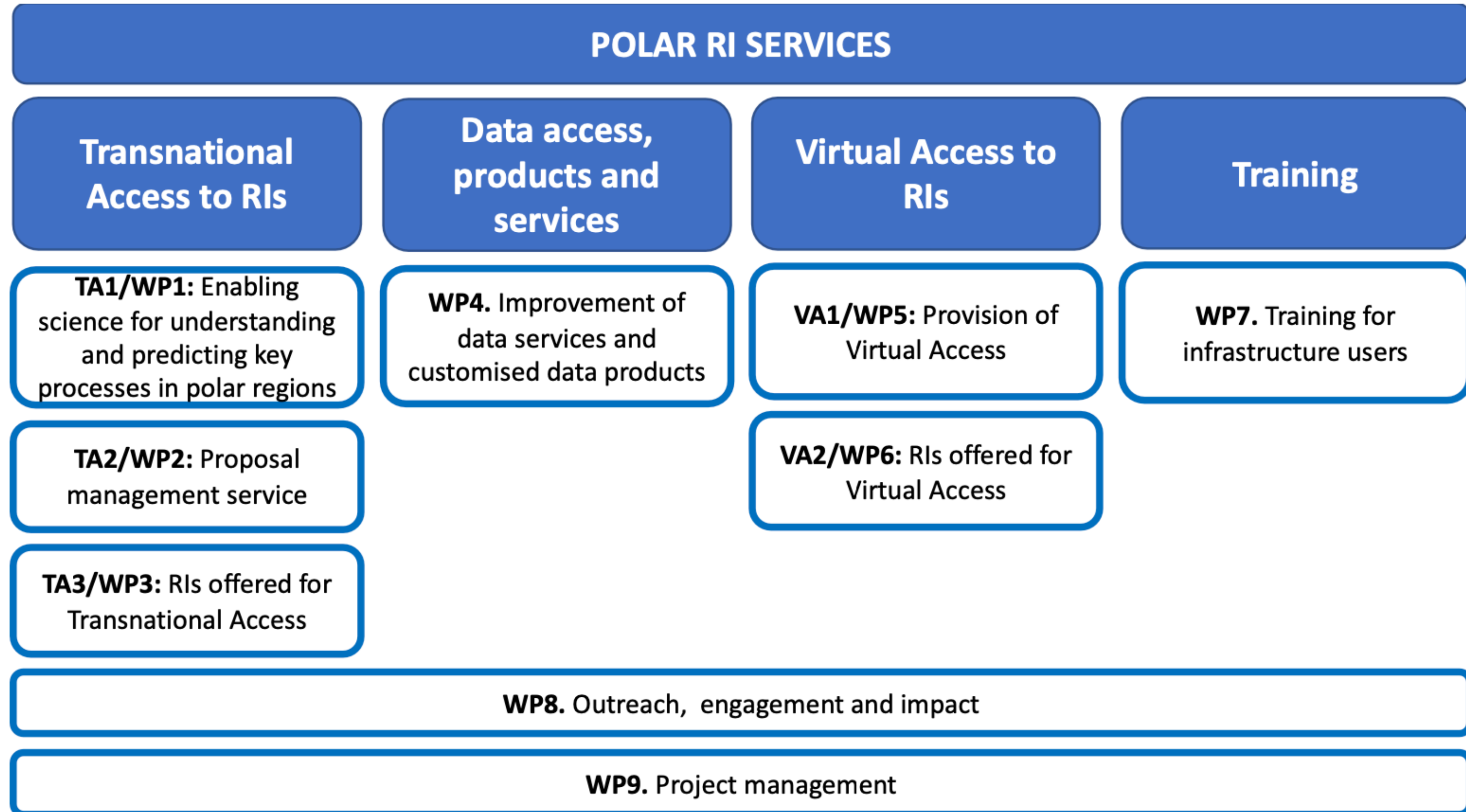
Ensure that the new generations are trained to exploit the leading edge RIs



POLARIN Consortium



Overall structure of the work plan



POLARIN RESEARCH INFRASTRUCTURE



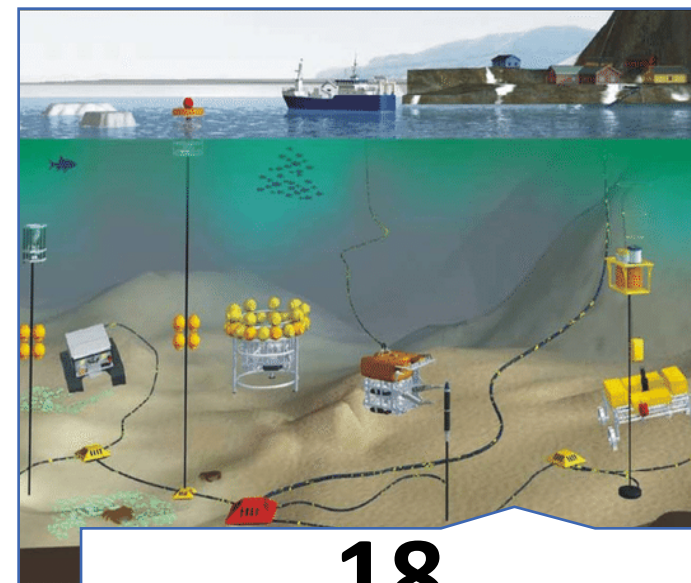
Access integration to **64** research infrastructures in **both poles**



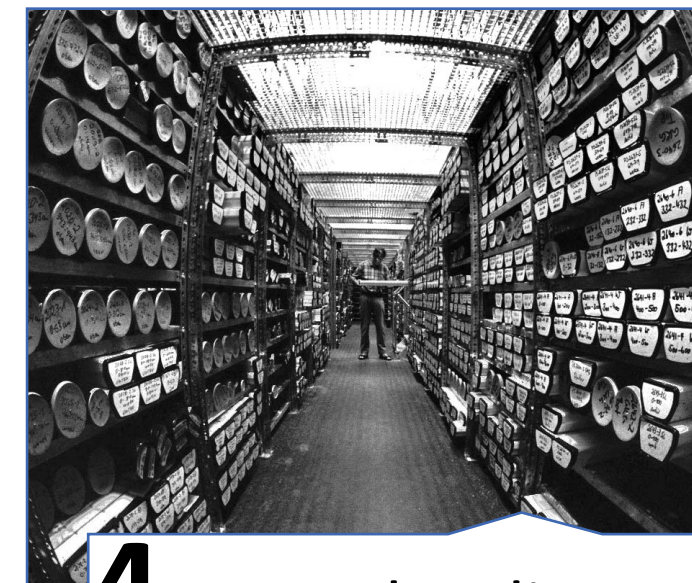
38
Research stations



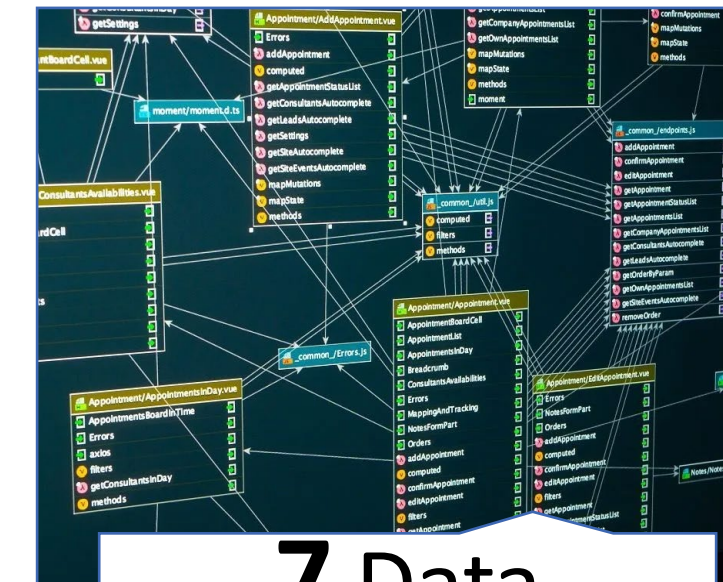
12
Polar vessels



18
Observatories



4 Ice and sediment
core repositories



7 Data
infrastructures

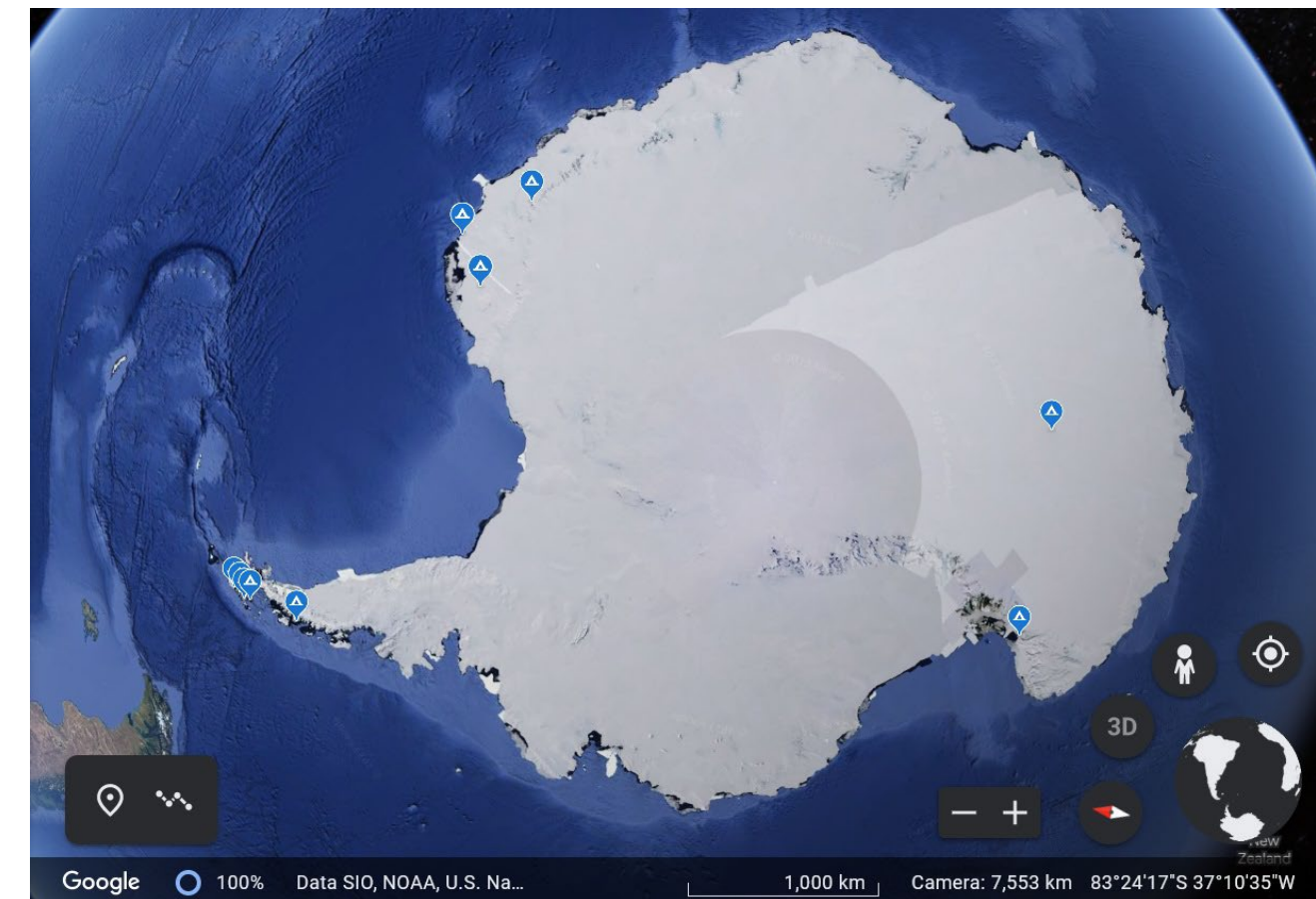
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38
Research stations

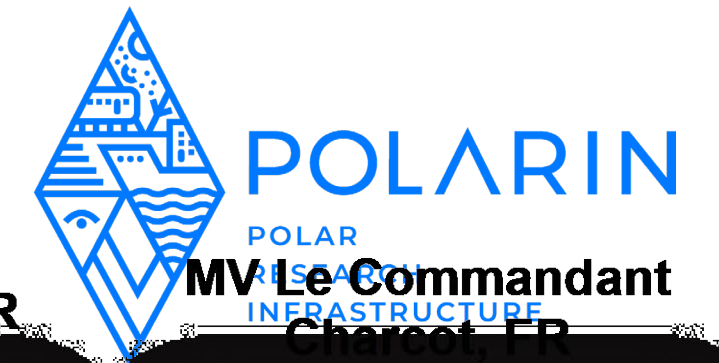


27 Arctic stations



11 Antarctic stations

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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 Karpui, CL



RVIB Laura Bassi, IT



Noosfera, UA



PRV Polarstern, DE

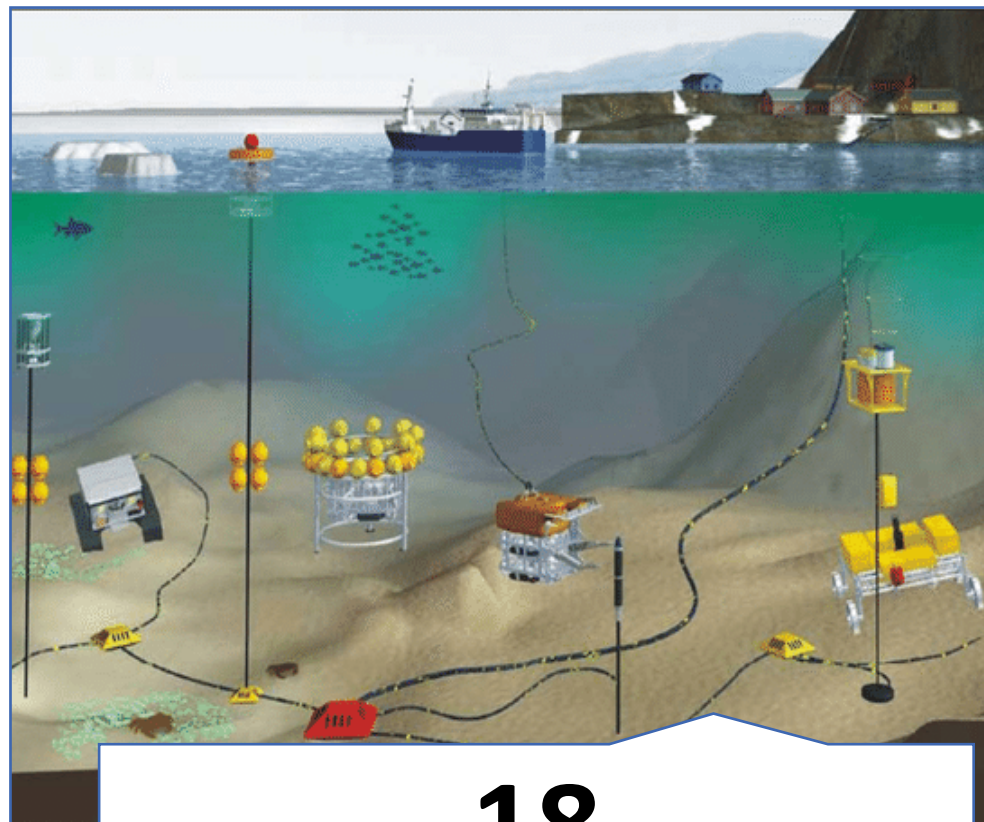


TARA polar station, FR



12
Polar vessels

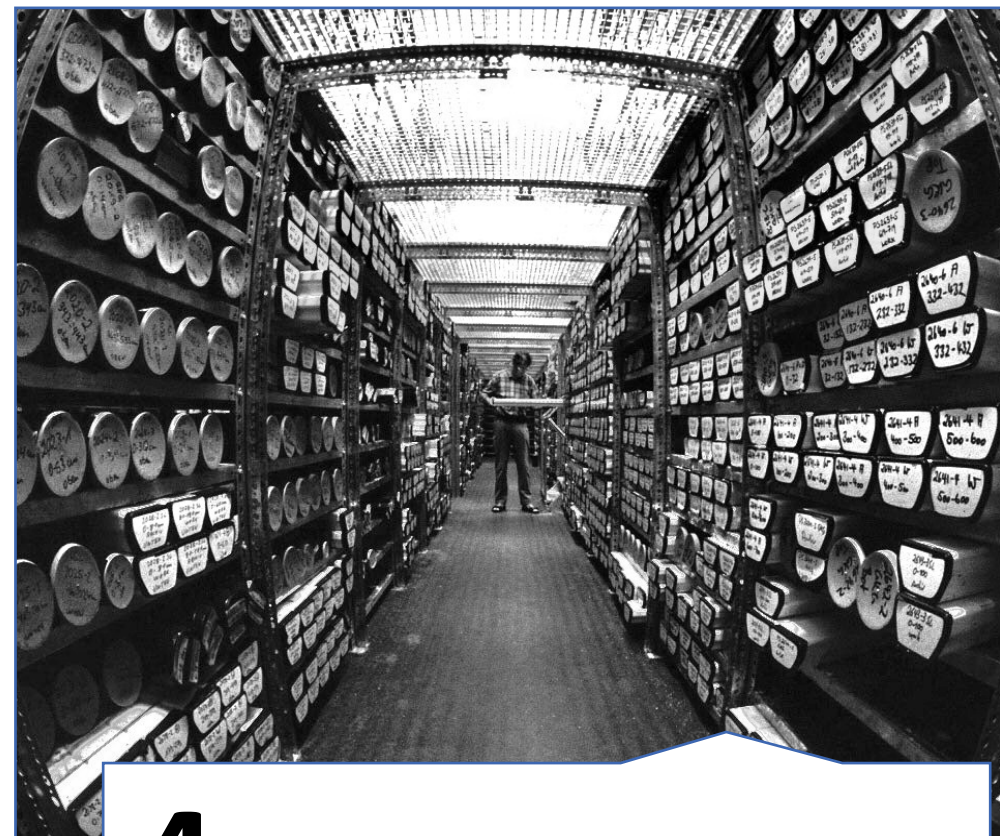
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18
Observatories

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

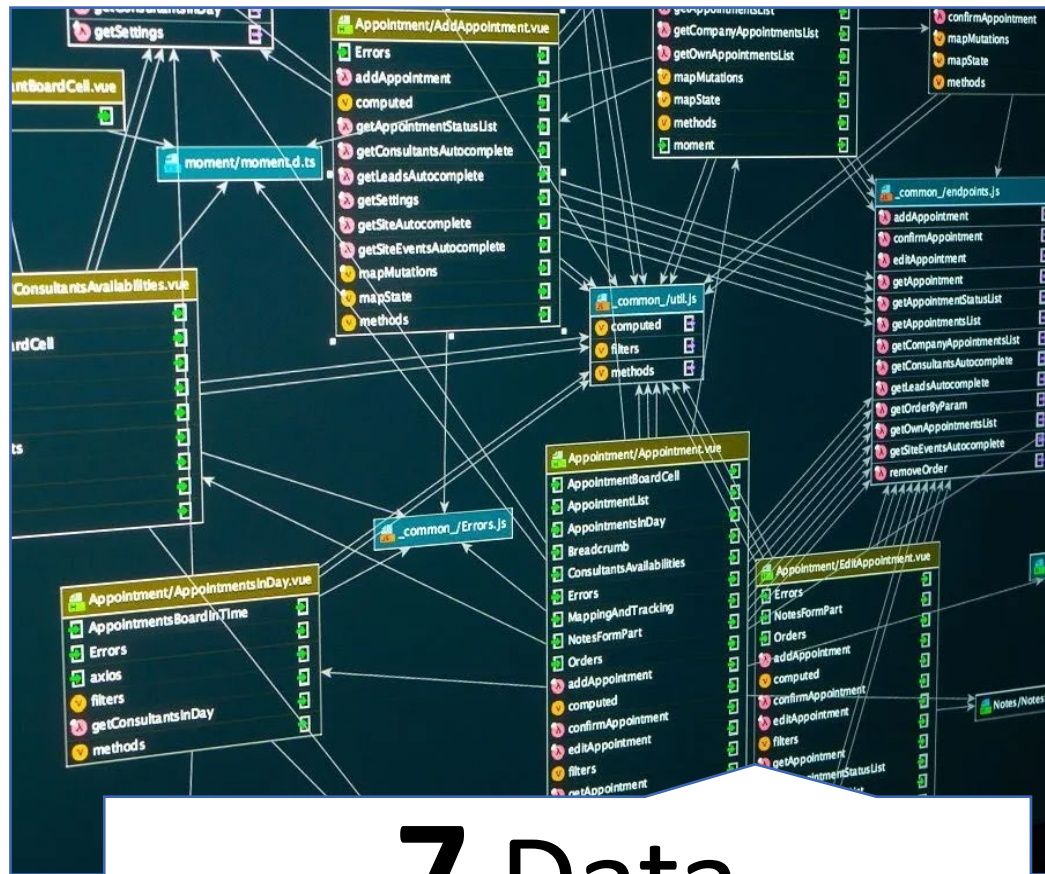
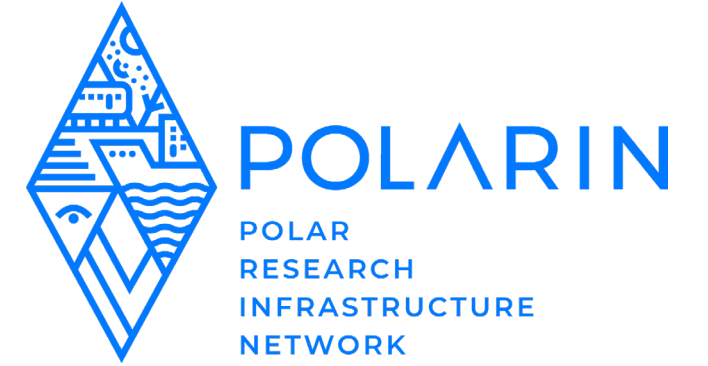
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4 Ice and sediment core repositories

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

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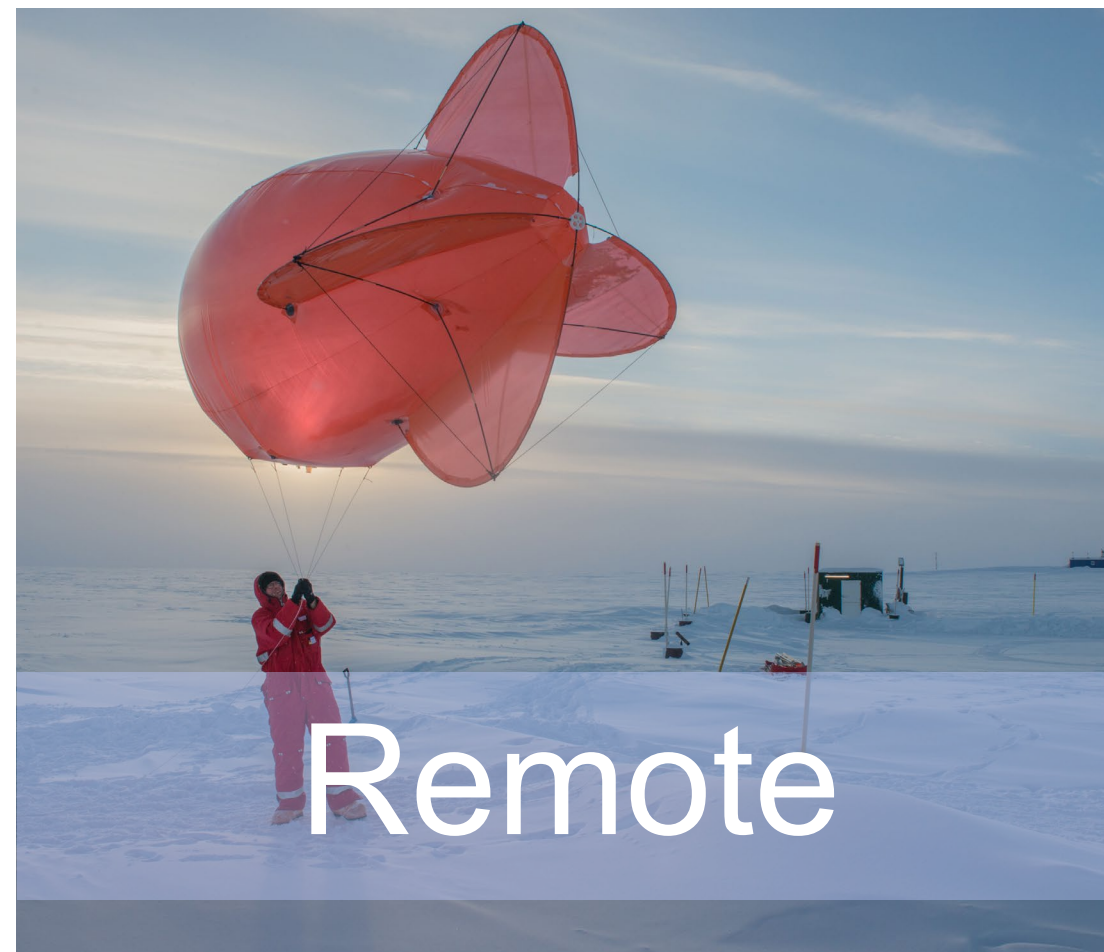


7 Data infrastructures

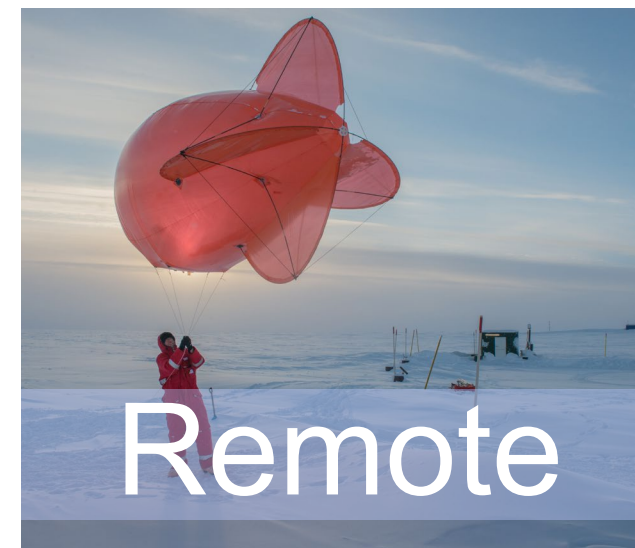
- Arctic Biodiversity Data Service (**CAFF**)
- ARICE Data infrastructure
- Italian Arctic Data Center (**CNR**)
- **INTERACT** data portal
- Italian National Antarctic Data Center (**CNR**)
- **POSEDA** (GFZ)
- **SIOS** Data Management System

TYPES OF ACCESS TO RI

Transnational Access



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

Virtual Access



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



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

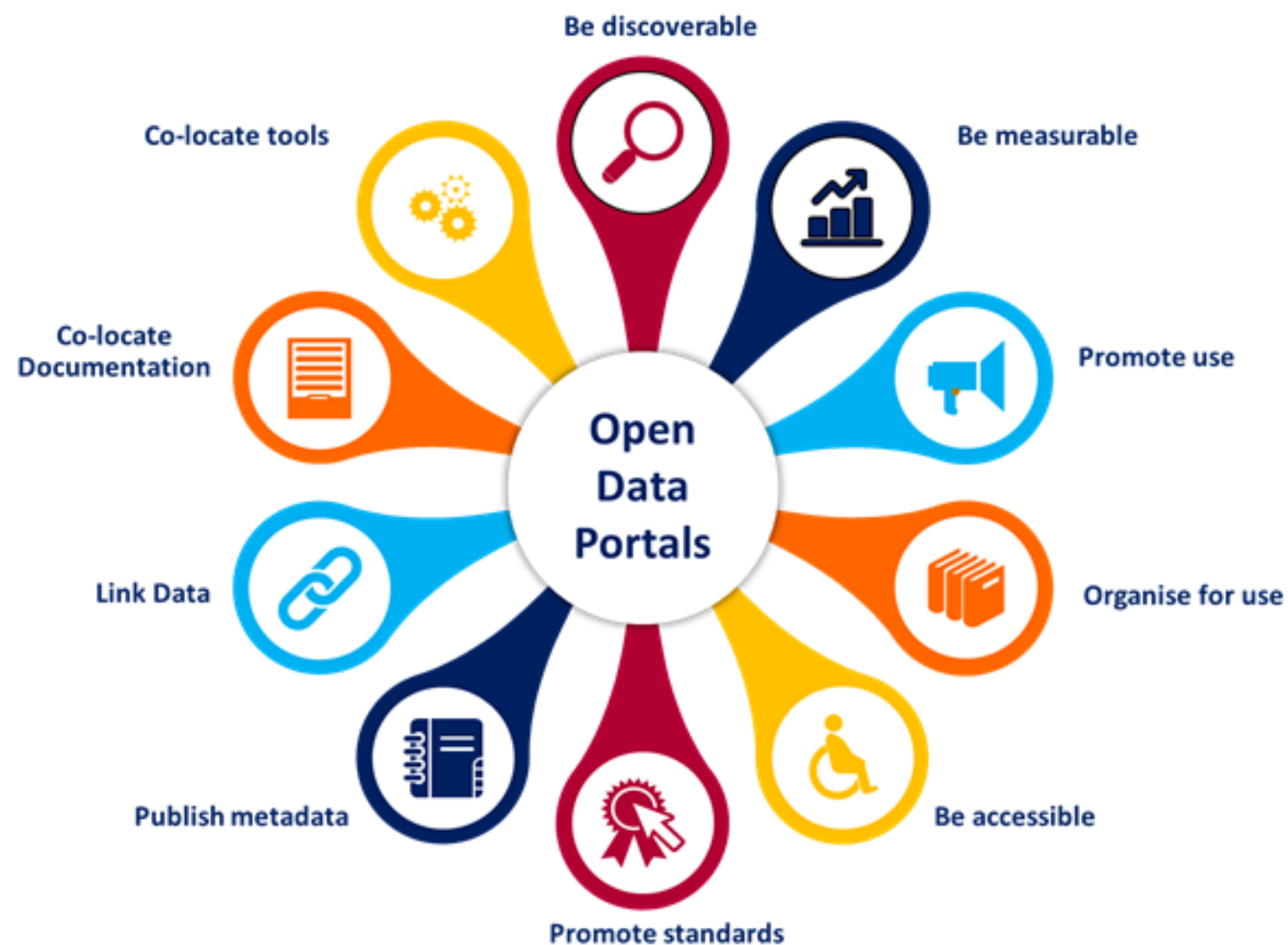
Provide virtual access (VA) to data and data services

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
- 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.

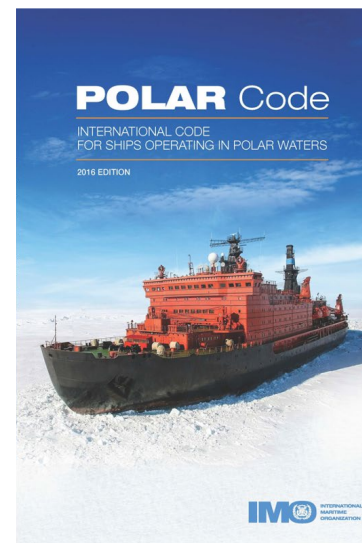
Training for infrastructure users



Training for early career scientists and professionals



Training on data stewardship



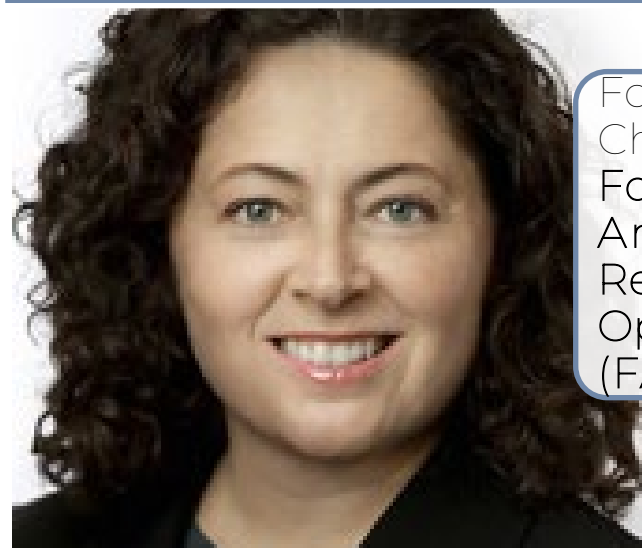
Safety training



POLARIN ADVISORY BOARD



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NSF



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Chair of the
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Operators
(FARO)

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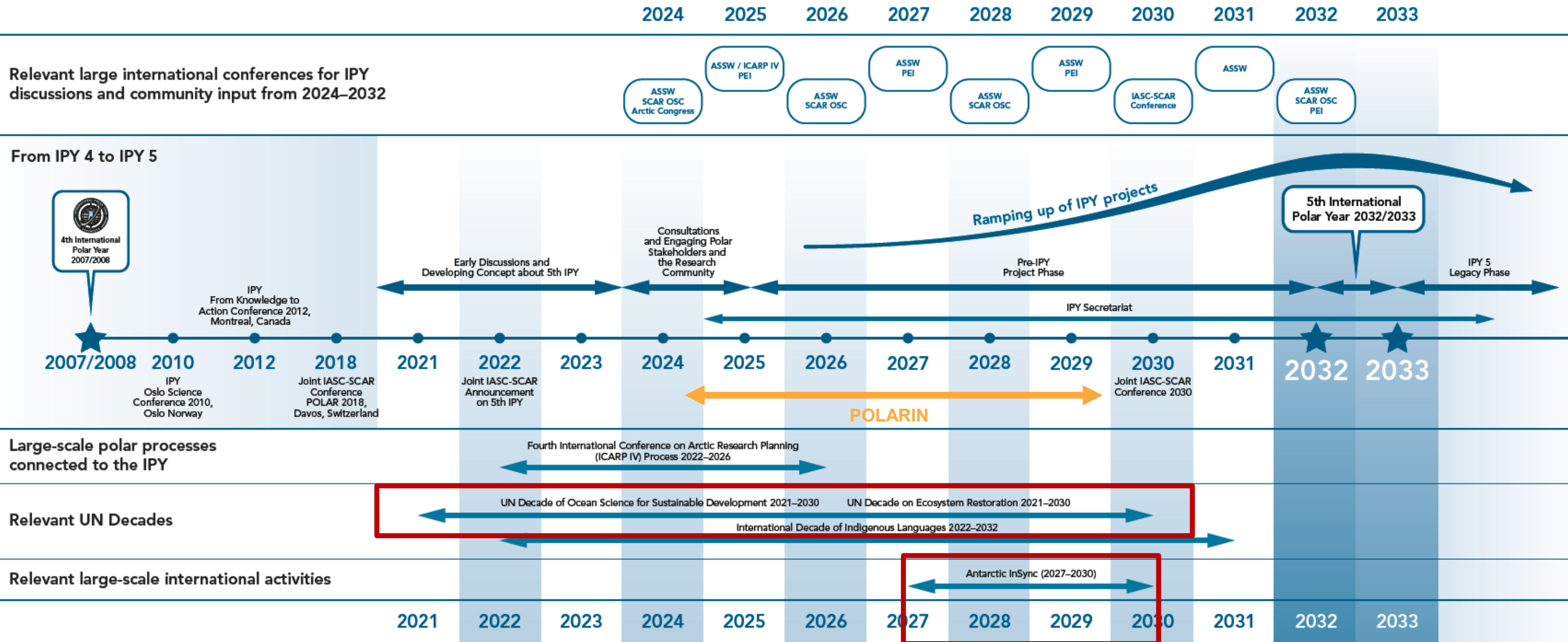


Connection with other projects,
forums, organisations



Long-term perspective

Towards the 5th International Polar Year (IPY) 2032-33

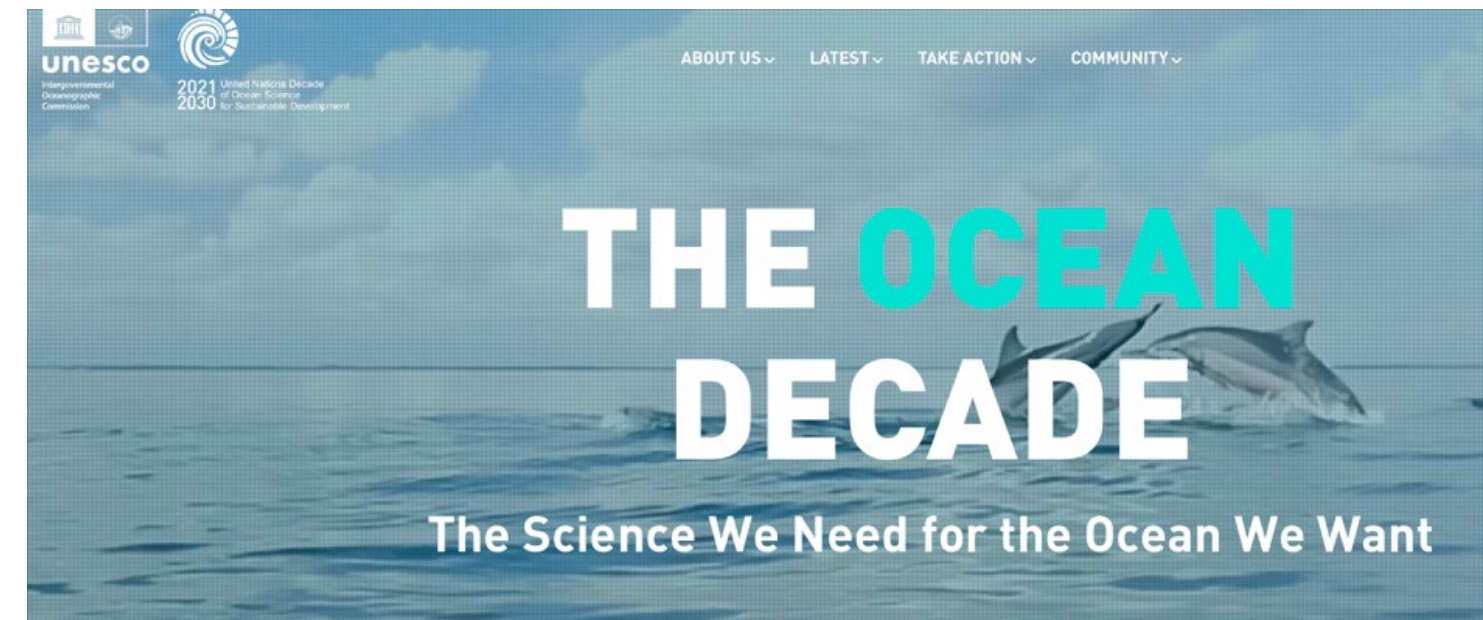


What is Antarctica InSync?

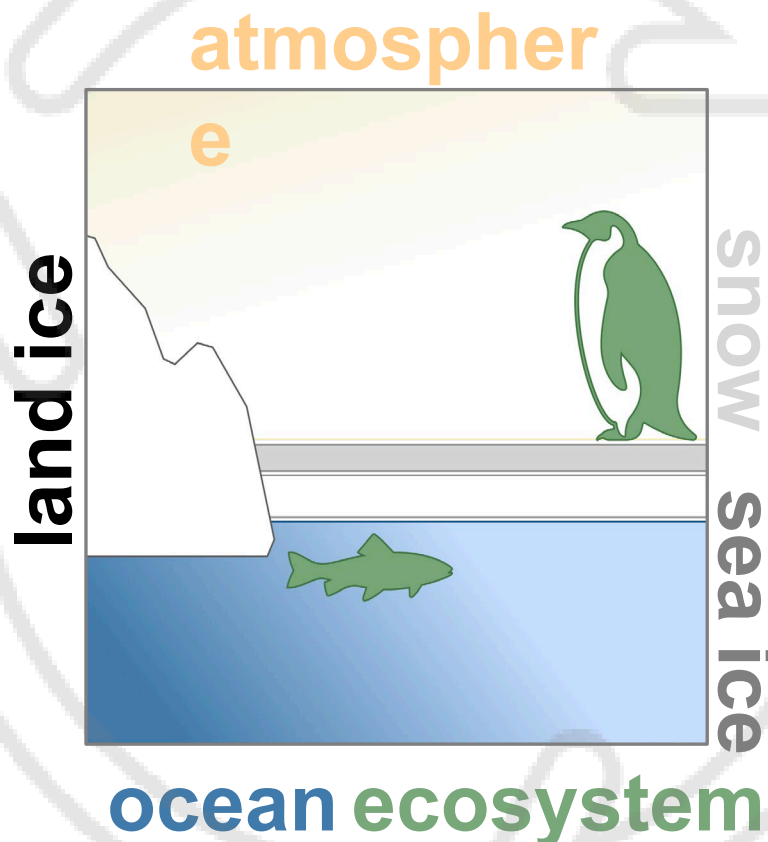
A policy and research driven international initiative endorsed as a UN Ocean Decade Action with focus on Antarctica and the Southern Ocean.

A synchronous scientific observation mission to allow for a circumpolar assessment of the connections between ice, ocean, climate, environment and life, including human pressures, and their solutions such as marine protection.

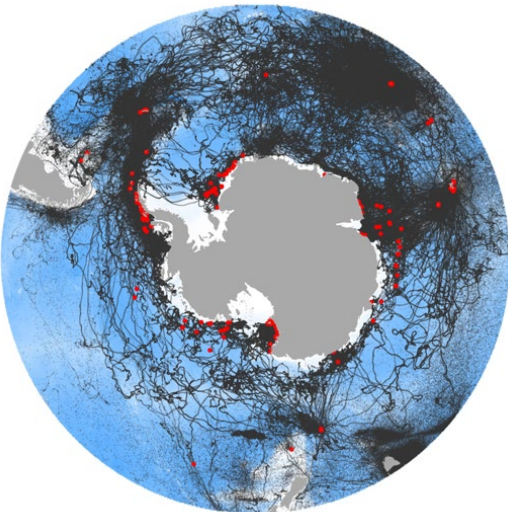
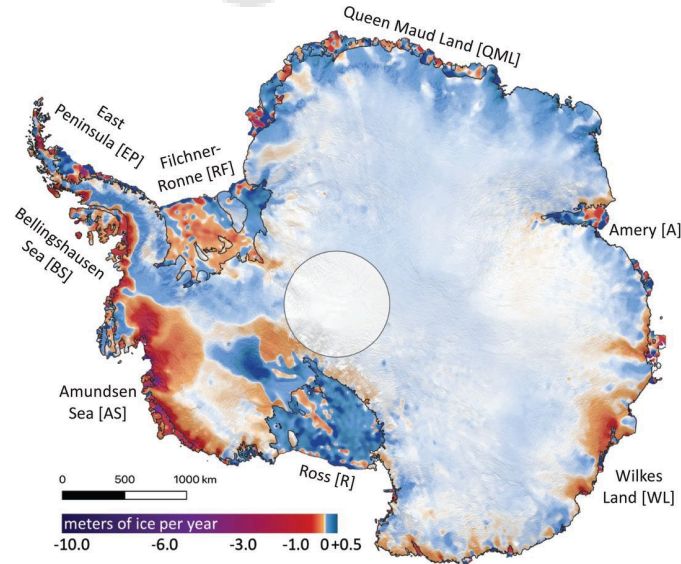
Closely coordinated with SCAR in its role as host of the Decade Collaborative Centre (DCC) for the Southern Ocean Region.



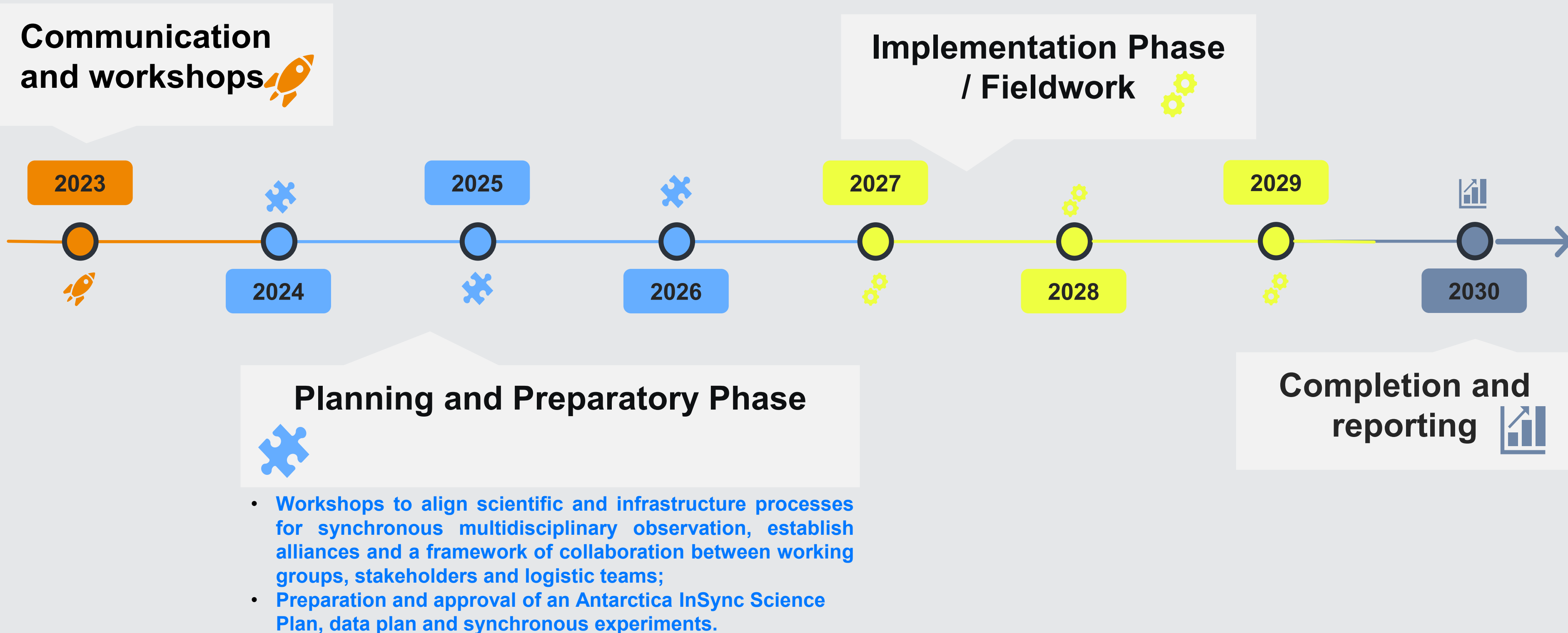
How will it work?



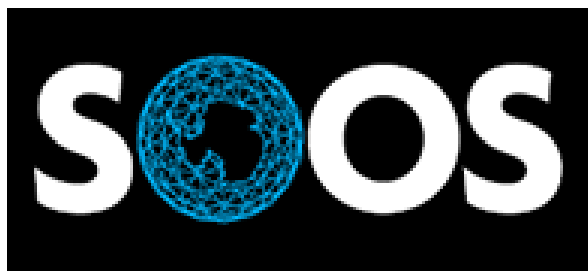
RESEARCH
INFRASTRUCTURES IN
ANTARCTICA AND THE
SOUTHERN OCEAN



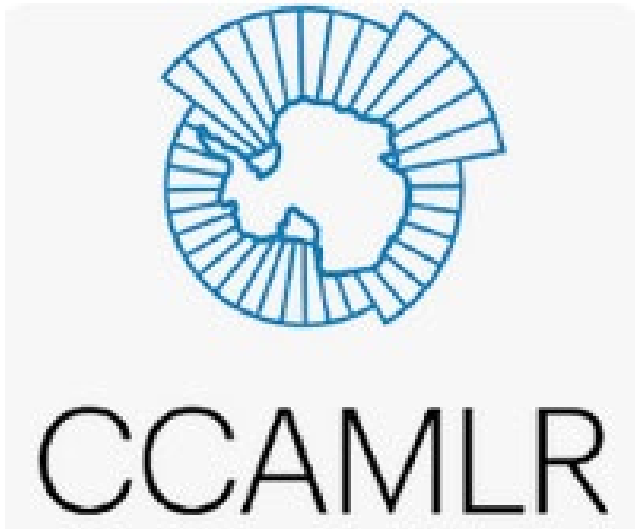
Anticipated time-line for Antarctica InSync



How will it work?



Antarctica InSync is open to everyone willing to contribute



Māori and Antarctica

CIVIL SOCIETY



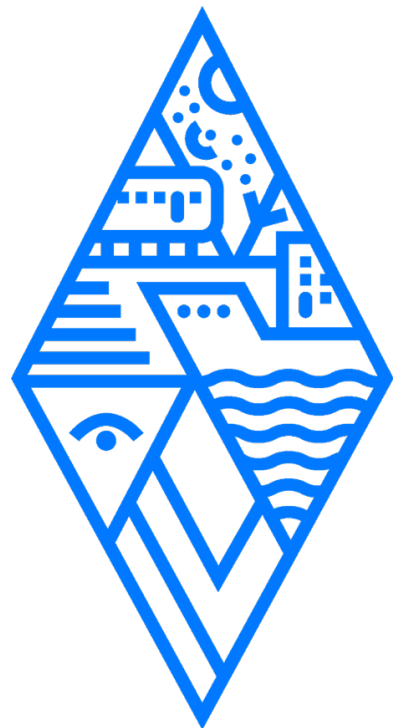
Contact Us

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