

EU-PolarNet

connecting science with society

*Co-designed research proposals,
involving stakeholders from the outset,
will ensure that scientific outcomes
are directly relevant and beneficial to
society and our economies*

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Our ambition

- Improve and strengthen international cooperation in polar research and to implement the Transatlantic Research Alliance
- Improve the co-ordination of European research in the Arctic and Antarctic to develop an integrated European polar research programme
- Design a resource-oriented European infrastructure access and usage plan to support an integrated research programme
- Initiate, conduct and sustain ongoing dialogue and cooperation with all relevant units of the European Commission and with stakeholders for the polar regions

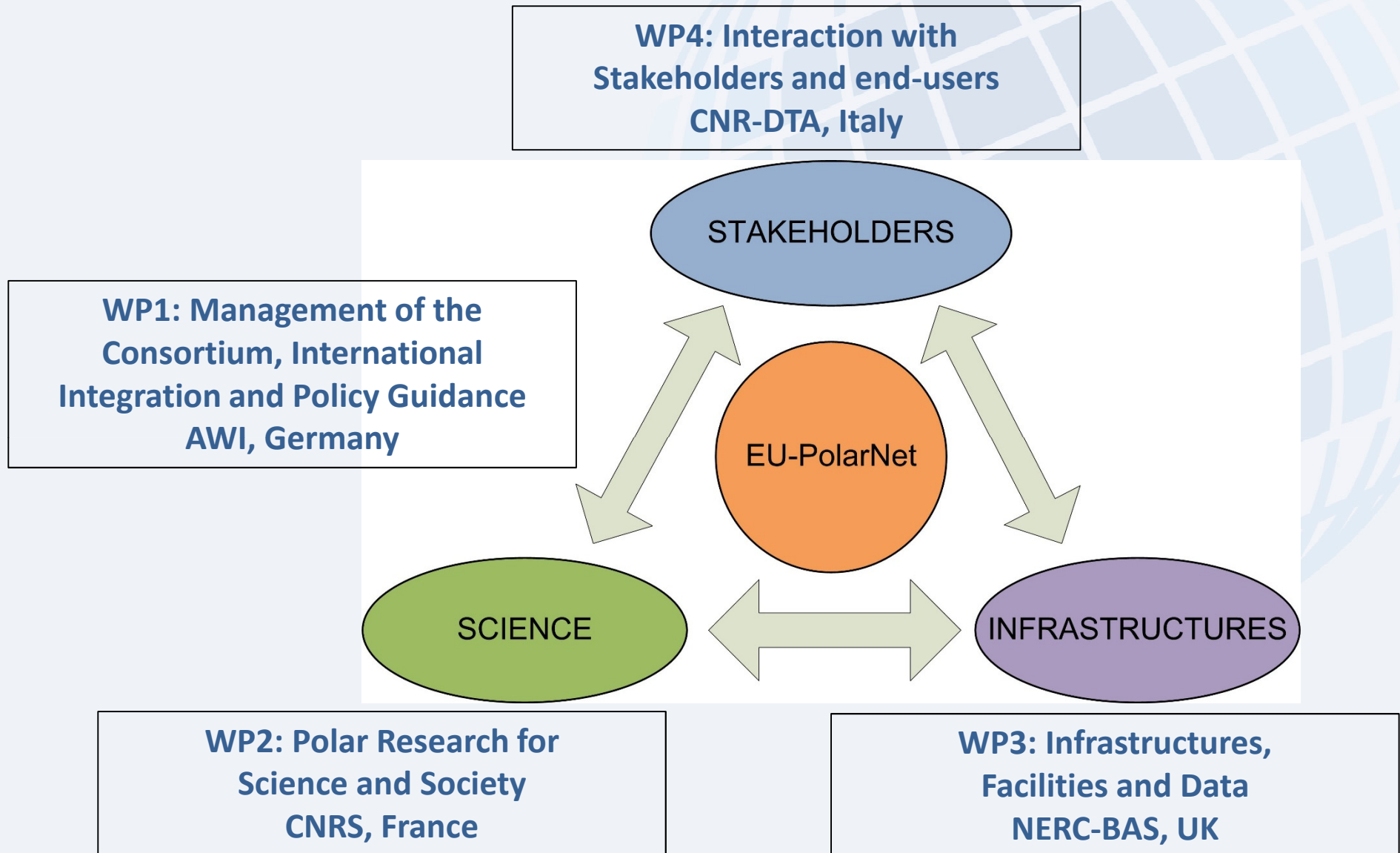


Who we are

- The world's largest consortium of expertise and infrastructure for polar research
- 17 countries represented by 22 of Europe's internationally-respected multi-disciplinary research institutions
- Professional teams from many disciplines



Work packages



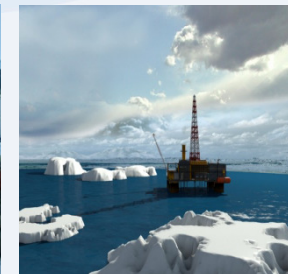
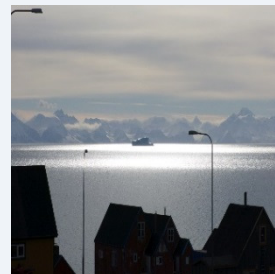
WP1, Lead AWI (Germany) – objectives

- Conduct the financial and contractual management of the project
- Guarantee an effective day-to-day management and create group dynamics and integration for the whole consortium
- **Improve and Strengthen international cooperation and implement the Transatlantic Research Alliance**
- **Support the implementation of the EU's international commitments in the Polar Regions**



WP2, Lead CNRS (France) – objectives

- **Improve coordination in European Polar Research** and develop an Integrated European Polar Research Programme co-designed from the outset with all relevant stakeholders.
- Support the **coordination and optimisation of existing polar monitoring and modelling programmes** and related infrastructure
- Bring together and critically review the **polar-related research priorities** identified by international and national bodies to establish those priorities of particular relevance to Europe
- Facilitate a more effective **dialogue between a wide range of stakeholders**, to allow them to present their views on the priority issues for Polar Regions and identify their needs from the European research community



WP3, Lead BAS (UK) – objectives

- Design a **resource-oriented European infrastructure access and usage plan** for the Integrated Polar Research Programme
- Work towards a coordinated **European polar research data infrastructure** and improve open access to quality-controlled data
- Determine the best approach to wider and more **coordinated use of space-based assets**, spanning satellite communication, navigation and observation, to support European polar operators
- **Interact with businesses** that operate infrastructure in Polar Regions and work towards charged usage of these infrastructures



WP4, Lead CNR-DTA (Italy) – objectives

- Initiate, conduct and sustain an on-going dialogue and cooperation with all relevant stakeholders for the Polar Regions
- Support meaningful interactions between scientists and stakeholders to shape the future polar research agenda, exchange key information and priorities, and foster joint involvement in the research process
- Establish **trans-disciplinary collaboration** on polar research by bringing together natural scientists, social scientists and stakeholders
- Equip EU-PolarNet participants with **“tools” and resources** to development engagement plans



WP3 Task 3.1

Polar platforms: research ships, stations, aircraft and autonomous instrumentation

Coordinators:



Yves Frenot

Institut Polaire Français
Paul Emile Victor, IPEV)



Gonçalo Vieira

(IGOT - Universidade de Lisboa)

EU-PolarNet partners involved: ALL Members should contribute

Links to other Organisations

- INTERACT
- COMNAP
- FARO

WP3 Task 3.1

Polar platforms: research ships, stations, aircraft and autonomous instrumentation

EU-PolarNet: initiating a **European Network of Polar Operations** that will develop a management system for trans-national access to the polar infrastructures

What is expected?

- A **catalogue of all existing polar infrastructures** (stations, research vessels, aircrafts, observatories, autonomous instrumentation on land, in air and ocean research...)
- An **understanding of the current rules** of trans-national access
- **Identification of polar commercial infrastructures** that could be made available to implement the Polar Research Programme.

Final objectives

- Publish a **white paper on European polar infrastructure access and interoperability**
- Publish an **infrastructure implementation plan** for the Polar Research Programme

WP3 Task 3.2

Satellites, communication and remote sensing

Andrew Fleming, British Antarctic Survey (NERC-BAS)

IPEV: Institut Polaire Français Paul Emile Victor; **RCN & CNR-DTA**



- Determine the best approach to wider and more coordinated use of space-based assets to support European polar operators
- Unique role of space assets in the polar regions
- Increased coordination of European space assets E.g. Galileo, Copernicus
- Development of future space assets will benefit from coordinated statement of requirements from the polar community
- Determine how to better coordinate access to space assets and facilities to support polar infrastructure and operations

A closer cooperation with ESA has been already initiated on a workshop on 10th April

WP3 Task 3.3

Data management and interoperability



RBINS **Serge Scory** (Royal Belgian Institute of Natural Sciences)

CNR-DTA **Stefano Nativi** (Consiglio Nazionale Delle Ricerche –
Department of Earth System Science and Environmental
Technologies)

AMAP **Simon Wilson** (Arctic Monitoring and Assessment
Programme)

Objectives:

To improve and optimise existing European systems and identify needs for new systems that may need to be created to facilitate a coherent data management system that is integrated into a global polar data management system

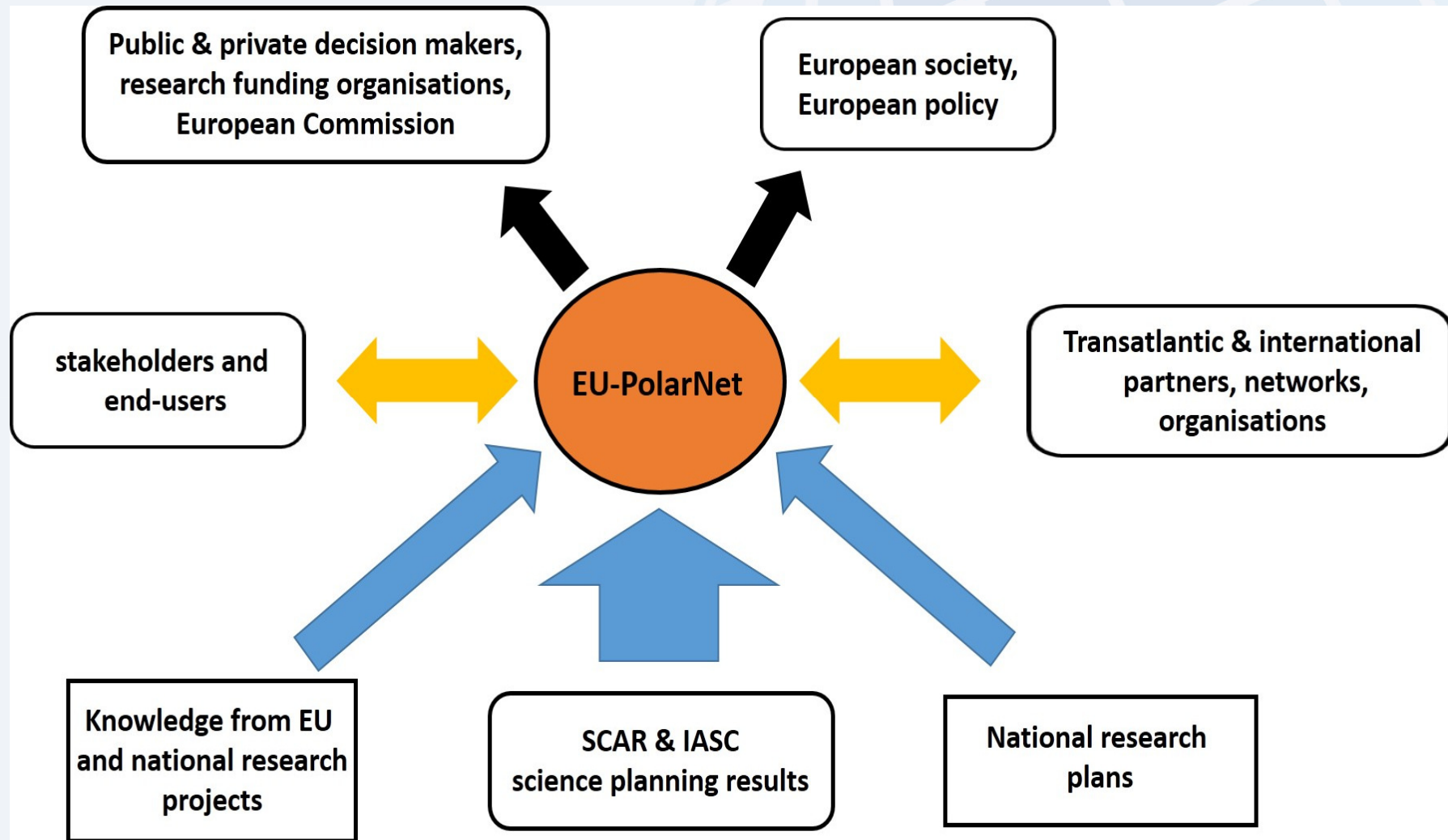
WP3 Task 3.3

Data discoverability and accessibility

Expected Results

- Publish **a survey of the existing European polar research data systems and infrastructures**, including their architectures, standards, good practice baselines, policies and scope
- Publish **a compendium of data management recommendations for polar research** data systems and infrastructures in Europe
- Publish **recommendations on how to significantly improve open access to data**, interconnection and interoperability of the existing and upcoming polar research data systems and infrastructures

Our approach



Thank you very much

Questions?

