

Scientific challenges & opportunities ahead of us



Research Need 1: A better understanding of climate change in the Polar Regions



Research Need 2: Informed weather and climate action



Research Need 3: Resilient socio-ecological systems



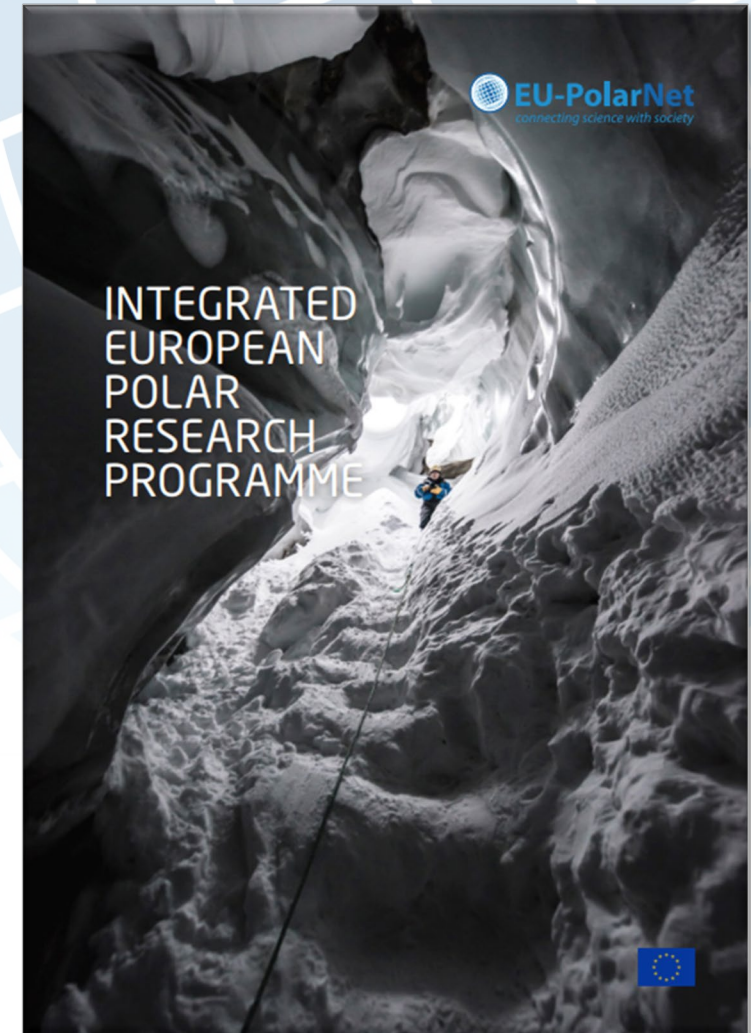
Research Need 4: Prospering Communities in the Arctic



Research Need 5: Challenges and opportunities in Polar operations

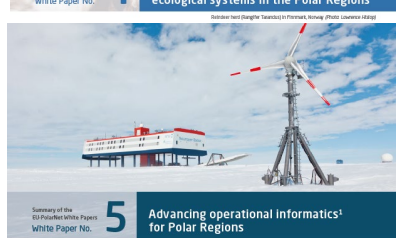


Research Need 6: Inclusive creation, access and usage of knowledge



Scientific challenges & opportunities ahead of us

- Assessing and predicting the changes and the vulnerability of natural polar environments,
- Preserving the polar environments and the cultural vitality of Arctic communities,
- Identifying mechanisms that can sustain improved well-being and quality of life,
- Improving knowledge of environmental, technical, and societal factors controlling safe, sustainable, and just operations in the Polar Regions and evaluating the associated risks,
- Accessing environmental and socio-economic data, and improving interoperability, and
- Raising awareness on the value of Polar Regions.

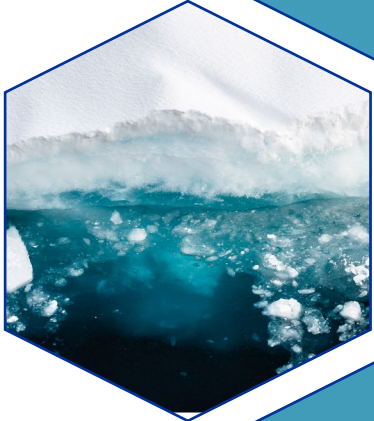


EC-ESA Common Science Agenda

ARCTIC
PROJECTS



POLAR
PROJECTS



ANTARCTIC
PROJECTS



Combination of satellite data and in-situ observations is crucial to address grant challenges

Better overcome crises – sustaining long-term observations

Support large-scale international initiatives

In general: cooperation and diversity leads to higher quality scientific research and solving of complex, non-routine problems

Thank you for your attention!



Contact:
nicole.biebow@awi.de



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