"An international collaboration strategy for meeting the needs of marine based research in the Arctic"

ARICE:
Arctic Research Icebreaker Consortium

Type of Action: RIA Research and Innovation action
Topic: Integrating Activities for Starting Communities
Start date: 01.01.2018  End date: 31.12.2021

Project coordinator: ANI
Budget ~6M€
International cooperation on Arctic marine-based research

The international Arctic science community must have access to world-class research icebreakers in the Arctic, able to operate in the Arctic Ocean outside the summer season:
• To answer questions of particular scientific, environmental and societal concern, and
• to develop policy recommendations for a sustainable usage of the Arctic and its resources

Arctic marine research is technologically challenging and very cost intensive, beyond the capacities of one single nation:

It can only be carried out in close scientific and operational international cooperation.
ARICE aims at providing Europe with better capacities for marine-based research in the ice-covered Arctic Ocean with the existing polar fleet by:

**(1) Networking:**

Developing strategies to ensure the **optimal use** of the existing polar research vessels at a **European and international level**, working **towards an International Arctic Research Icebreaker Consortium** which shares and jointly funds operational ship time on the available icebreakers.
(2) Trans-national access

Providing trans-national access to a set of six key European and international icebreakers for European scientists based on scientific excellence of submitted proposals:

- PRV Polarstern, DE
- IB Oden, SE
- RV Kronprins Haakon, NO
- CCGS Amundsen, CA
- RRS Sir David Attemborough, UK
- RV Sikuliaq, USA
(3) Joint research activities:
Improving the research icebreakers services by:

• partnering with maritime industry
  – on a “ship of opportunity” programme
  – by exploring into new key technologies that could lead to an improvement of ship-based and autonomous measurements in the Arctic Ocean

• Implementing a virtual and remote access of data.
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