

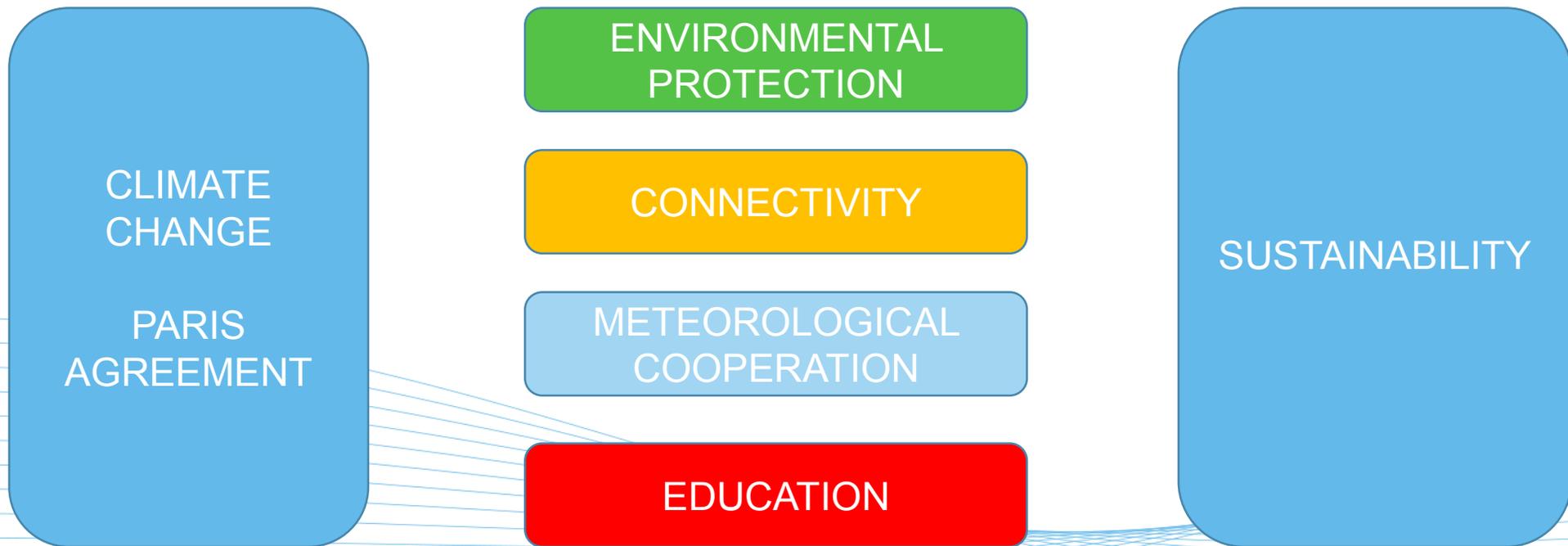


Finland's Chairmanship in the Arctic Council 2017-2019





Finland's chairmanship in the Arctic Council 2017-2019





Strengthening the work of the Arctic Council

1. THE ENVIRONMENT AND CLIMATE

Paris climate agreement

2. THE SEAS

Arctic Marine Strategic plan 2015-2025

3. THE PEOPLE

Sustainable Development Goals of Agenda 2030

4. STRENGTHENING ARCTIC COOPERATION

Long-term strategic goals and continuity of **AC's** work



Arctic Council chairmanship 2017-2019

CHAIRMANSHIP PRIORITIES (into effect 5/2017)

1. Environmental protection

- the core of arctic cooperation
- putting AC working groups' recommendations into practice

2. Connectivity, i.e. secure communication in the Arctic

- continuing the WG telecommunications work
- communication technologies, satellite connections, mobile communication systems, low bandwidth transmission and maritime cables
- satellite navigation



Arctic Council chairmanship 2017-2019

CHAIRMANSHIP PRIORITIES (into effect 5/2017)

3. Meteorological and oceanographic cooperation

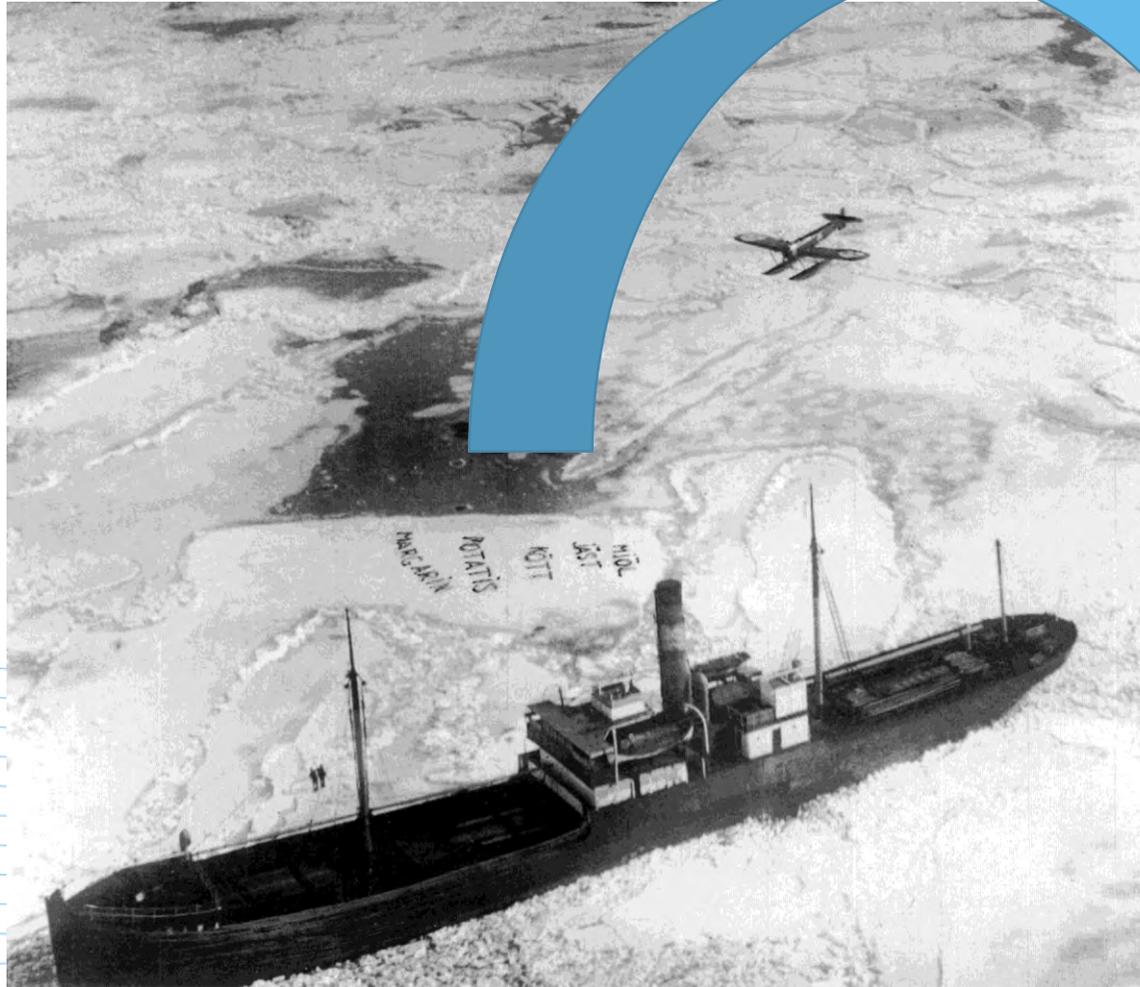
- improving public safety, better data coverage, enhancing arctic climate science

4. Education

- fair educational opportunities
- strengthening the network of education specialists



Drivers...



FLOUR

YEAST

MEAT

POTATOS

MARGARIN



Meteorological and oceanographic cooperation (in collaboration with WMO)

WHY?

Accurate situational awareness, forecasts and arctic climate science ensures safety at sea, in the air and on land.

Essential for arctic communities, businesses and authorities.

Requires intensified monitoring → better data coverage → improved safety services and forecasting.

Improved climate change scenarios deepens our understanding of its consequences in the Arctic.



Meteorological and oceanographic cooperation (in collaboration with WMO)

HOW?

- implementation of WMO initiatives Arctic Polar Regional Climate Center (PRCC) and Year of Polar Prediction (YOPP) Campaign
- intensifying monitoring in the Arctic: Sustainable Arctic Observation Network (SAON), implementation of the EU Horizon2020 project "International Arctic Observation System" (INTAROS), developing IOC Arctic GOOS programme
- developing services related to navigation and communication in the Arctic
- strengthening the use of satellite based data for research, monitoring and services



→ proper situational awareness, communication solutions and data transfer are vital to any activities in the Arctic





AC Ministerial in Fairbanks May 2017





FMI Science Networking Workshop 8/2017

Venue: FMI headquarters, Helsinki, Finland

Suggested dates: Aug 30-Sep 1, 2017

Target group: experts from all Arctic Council member states
and WMO arctic PR's

Themes:

- Satellite based services and products, incl. ECV's and UAV's: atmosphere, snow, sea ice, permafrost, floods, forest fires, water overrun on ice, Day-Night Band (DNB)
- Weather model and application development to meet arctic requirements
- Observations and monitoring in the Arctic (YOPP campaign)
- WMO Arctic Regional Climate Center (Arctic RCC)
- Adaptation and resilience to climate change, including changing cryosphere in the Arctic
- Joint Meteorological Action Plan



Arctic Meteorology week 2018

MON 19 March	TUE 20 March	WED 21 March	THU 22 March	FRI 23 March
<u>Morning</u> ICWED arrivals	<u>Morning</u> ICWED Meeting cont.	<u>Morning</u> WMO/PHORS opening	<u>Morning</u> WMO/PHORS	<u>Morning</u> WMO/PHORS incl closure
<u>Afternoon</u> ICWED Meeting	<u>Afternoon</u> Arctic Meteorology Summit (*)	<u>Afternoon</u> WMO/PHORS	<u>Afternoon</u> WMO/PHORS	<u>Afternoon</u> Departures
<u>Evening</u> ICWED Dinner	<u>Evening</u> Arctic Met Summit Cocktails & Dinner Gala	<u>Evening</u> WMO PHORS Dinner	Evening	

(* *Arctic Meteorology Summit is for the Meteorological Directors of all European and Arctic Council member Countries, high-level WMO and SAO Officials as well as Finnish high-level authorities from Parliament, Ministries and local governance.*



Planned demonstrations during the Finnish chairmanship

Satellite data transfer demo

**Oil combatting exercise 3/2018
(as required in the EPPR Agreement)**

**SAR exercise during the
Arctic Coast Guard Week 3/2019**

**Intelligent navigation systems in the Arctic
Mobility as a Service (MaaS/AURORA) 2018**

Winter navigation training 2018

Arctic 100 Expedition 2018/2019

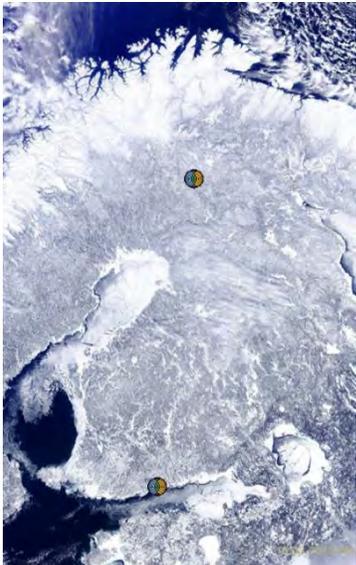




Satellite data transfer demo

Satellite data with ice information is received at the Sodankylä National Satellite Data Center, packed into a transferable unit and forwarded near real time to a vessel sailing in the Arctic. Coordinator: Finnish Meteorological Institute (FMI).

- Aims:
- 1) highlighting the needs of telecommunication in remote areas
 - 2) Solutions for addressing the issue of no broadband or connectivity in the Arctic.



National satellite data center providing satellite data reception and data processing services to Finnish and international partners



Oil combatting exercise / Arctic coast guard week

Oil combatting exercise as required in EPPR Agreement. Coordinator: Finnish Environment Agency (Syke).

Promoting practical approach to Arctic coast guard cooperation by organising a maximal maritime safety exercise (early 2019). Coordinator: Finnish Border Control (Rajavartiolaitos).

Aims: 1) exchange of best practices

2) aligning standard operating procedures and promoting interoperability.



Intelligent navigation systems / Mobility as a Service in the Arctic

Unique information based testing area and competence center for transport automation (AURORA) in Fell Lapland. Test site for prototypes supplemented with services such as Arctic corridor for intelligent transport (E8). Coordinator Finnish Transport Agency (Liikennevirasto).

Automated driving, Mobility as a Service, digital transport infrastructure and connected cars, intelligent infrastructure asset management.

- Aims:
- 1) verifying and validating new Arctic connectivity ITS (intelligent transport system) solutions and innovations in arctic winter conditions
 - 2) development of digital transport systems in the Arctic



Winter navigation training

Winter navigation pilot course in the northern Baltic Sea (early 2018), making use of top notch winter navigation simulator and decades of experience in ship design, construction and operation in Arctic conditions. Coordinator: Finnish Traffic Safety Agency (Trafi).

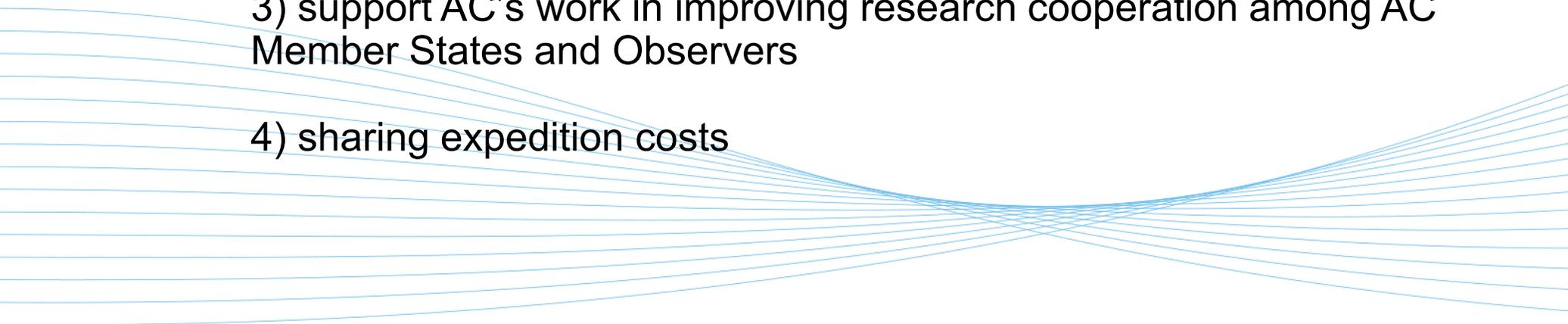
- Aims:
- 1) training winter navigation
 - 2) raising awareness of the IMO Polar Code.





Arctic 100 Expedition

Arctia Ltd. offers an unique opportunity for science community and technological development to join a tailored cruise to the Arctic in summer 2017.

- Aims:
- 1) intensified, multipurpose use of operative icebreaker fleet in the Arctic
 - 2) facilitate international cooperation and sharing of knowledge and data between science and technological development (industry)
 - 3) support AC's work in improving research cooperation among AC Member States and Observers
 - 4) sharing expedition costs
- 



See you in the Arctic!