



**Cruise Expedition Monitoring Workshop  
and Dialogue-Seminar  
Longyearbyen 7-8 March 2019**



# INTAROS

**= Integrated Arctic Observing System**

EU Horizon 2020 project

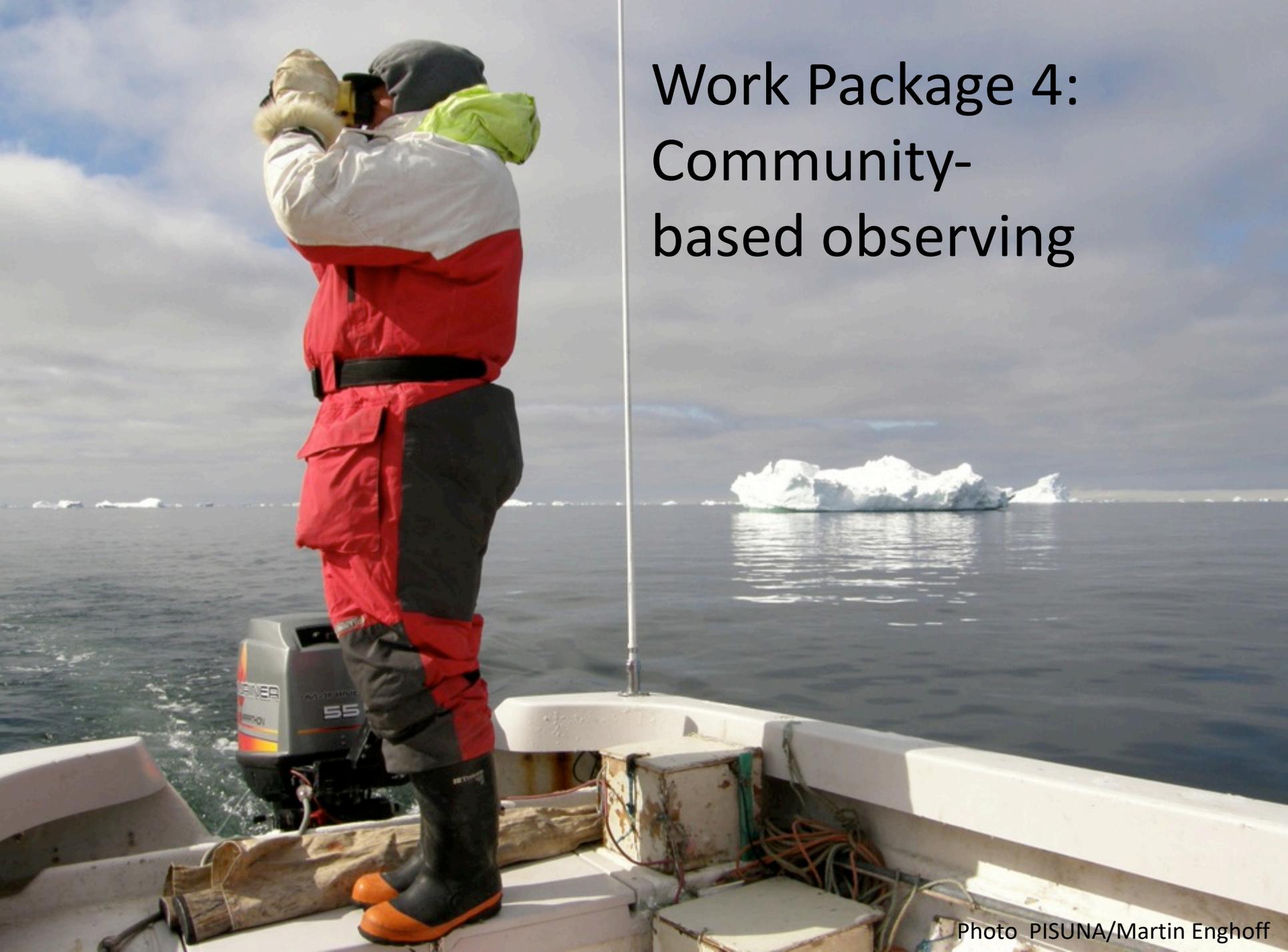
50 partners, 2016-2021

Director: Stein Sandven



Longyearbyen 7-8 March 2019

# Work Package 4: Community- based observing





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# WP4 Community-based observing

**Aims** Enhance community based observing programs for participatory research and capacity-building

**T4.1** Surveyed Arctic CBM programs

**T4.2** Prepared CBM toolkit

CBM = Community Based Observing - **includes citizen science**



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## WP4 Community-based observing

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# Surveyed Arctic CBM programs

## Report on Arctic CBM good practices

### Report contents:

- Capabilities of community observing programs
- Good practices
- Challenges

**NORDECO**

Nordic Agency for  
Development and Ecology



Map: SG Hansen



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## WP4 Community-based observing

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# Community based observing toolkit

Community Based  
Monitoring

## LIBRARY

Programs and experiences:

[Home](#)

[AAOKH](#)

[Arctic Borderlands](#)

[ION-Yukon River](#)

[PISUNA](#)

[SIWO](#)

[Winterberry](#)

[Contact](#)



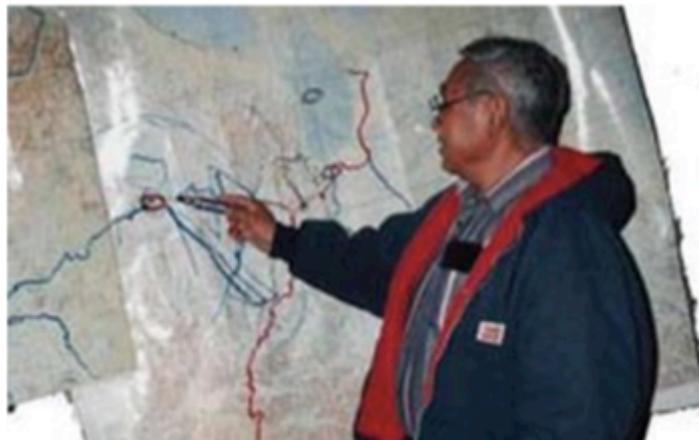
INTAROS

Integrated Arctic  
Observation System

## Community Based Monitoring Library

Here you can find information about Arctic community based monitoring programs, including the manuals they use and an overview over the most important lessons learned.

The materials have been prepared by the organizers of each community based monitoring program.



AAOKH



Arctic Borderlands



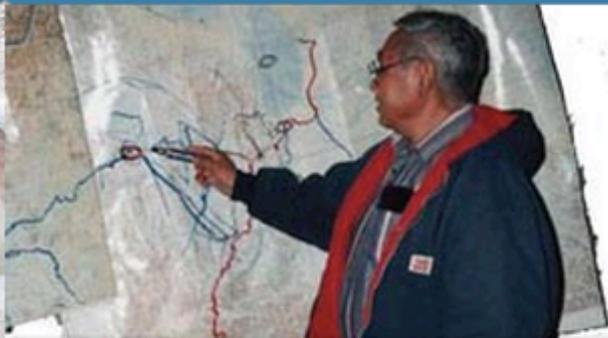
ION-Yukon River



AAOKH

Arctic Borderlands

ION-Yukon River



PISUNA

SIWO

Winterberry



Available from SAON, Intaros and Arcticcbm.org websites

Other important activities

# Capacity exchange workshops



Photo: MK Poulsen

# Workshops

## Evenk communities

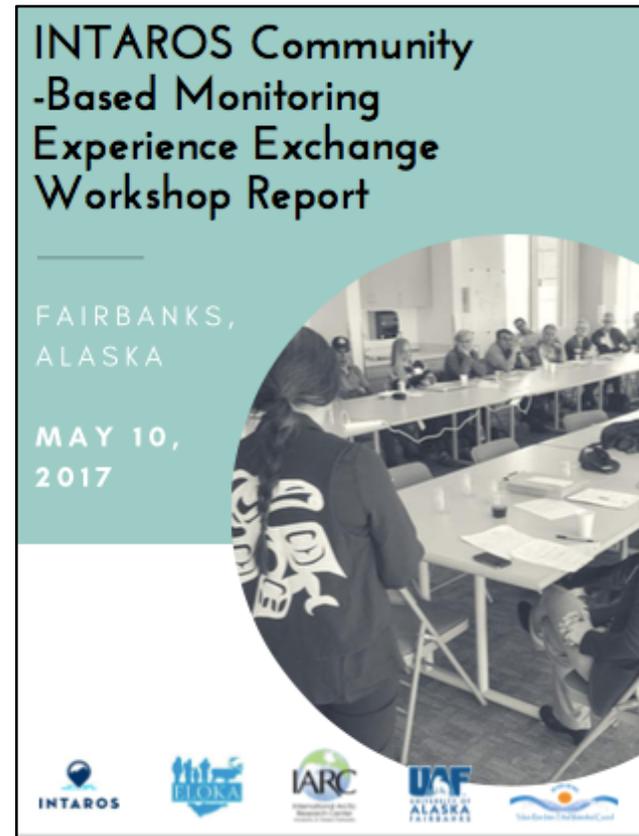
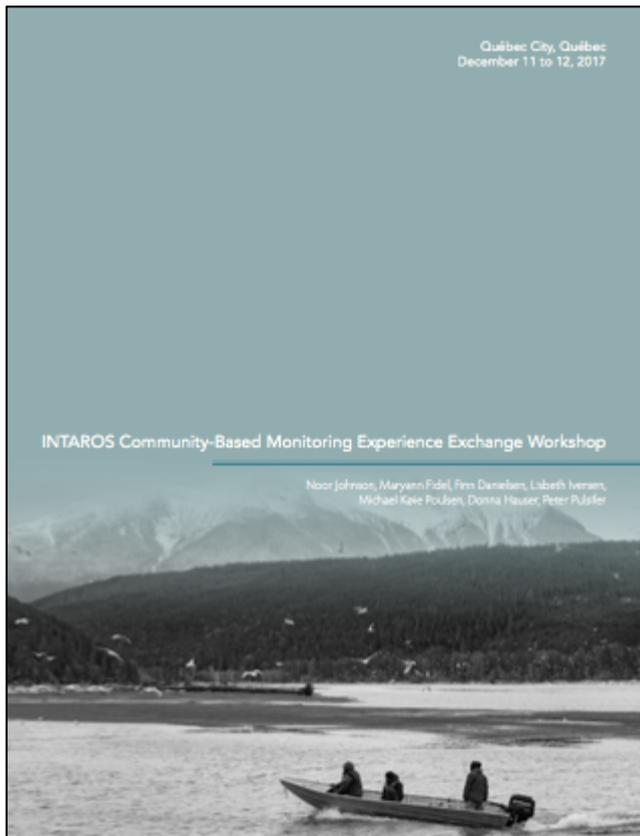
→ Government recognition of traditional fisheries zones



# Examples of experiences documented

<http://www.intaros.eu/>

<http://eloka-arctic.org/content/reports>



**Greenland**

# Community-based monitoring of land and marine ecosystems

Connecting top-down and bottom-up approaches



Photos: F. Danielsen



Focus group discussions with experienced fishers and hunters



# Findings example – Cod



Akunnaaq, photo by community monitor Gerth Nielsen

## The Attu Natural Resource Council on the west coast of Greenland



Cookies

**Local fishermen document the marine environment and suggest measures for managing it better.**

Fishermen in the Attu area on the west coast of Greenland are acting as observers, providing input into research (citizen science and local indigenous knowledge) and suggesting measures to protect nature. The Natural Resource Council is an important example of people assuming responsibility for their local environment and natural



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## Svalbard and Disko Bay (T4.3-4; 6.6)

1. Pilot Citizen Science network of relevant parameters to support decision-making
2. Make Citizen Science data accessible for 'recognized' int'l databases
3. Demonstrate the benefits of cross-fertilizing citizens' and scientists' observing systems



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1. Pilot Citizen Science network of relevant parameters to support decision-making
  2. Make Citizen Science data accessible for 'recognized' int'l databases
  3. Demonstrate the benefits of cross-fertilizing citizens' and scientists' observing systems
- **Lessons learned report**
  - **CSc data entered into databases**
  - **Policy brief for decision-makers, demonstrating 'real-world' benefits of cross-weaving observing**

# Cruise Expedition Monitoring Workshop at UNIS 7 March 2019



## Objectives

To jointly develop a cruise expeditions' Arctic environmental monitoring program comprising dedicated Citizen Science programs

## Envisaged output

Agreement on a **pilot** monitoring program to be tested around Svalbard and in the Arctic

## **First session: Setting the Scene**

- 8.30 Welcome by Stein Sandven and Finn Danielsen
- 8.50 The governance of Svalbard by Lisbeth Iversen
- 9.10 AECO by Ilja Leo Lang
- 9.30 The Arctic Cruise Project of UNIS by Børge Damsgård
- 9.50 Break

## **Second session: Participating Cruise Operators**

- 10.00 Hurtigruten by Veranda Meraldi
- 10.10 Viking Cruises by Jørn Henriksen
- 10.20 Mare Incognita by Robert Stephan Zergenyi
- 10.30 Noble Caledonia by Pam Le Noury
- 10.40 PolarQuest (Johanna Vakkila) and Quark (Allison Kean)

## **Third session: Programs & Platforms**

11.00 Intro by Michael Køie Poulsen

### **Citizen Science Programmes**

11.05 Sea ice by Penelope Wagner, Trond Robertson

11.15 Oceanography, FerryBox by Kai Sørensen

11.25 Onshore, plastic, algae by Agnieszka Tatarek

11.35 Cultural and historical sites, IASC (Naja E. Mikkelsen)

11.45 Global program on wildlife, birds - eBird (Ian Davis)

### **Platforms and intermediate organisations**

11.55 LEO Network by Michael Brubaker

12.05 Polar Citizen Science Collective (proposed)

12.15 Svalbard observing system, SIOS (Inger Andersen)

12.20 Lunch

## **Fourth session 13.30-17.00: Workshop Discussions**

16.45-17.00 Wrap up

1. Which attributes do you suggest are recorded? Rank these.
2. Reporting format and lines of communication – How to report?
3. What kind of feedback is needed - and how fast?
4. Can we agree on a pilot monitoring program in 2019? Which role could you play? What could you get out of it?

## Group 1

Jørn Henriksen

Penelope Wagner

Kai Sørensen

Zdenka Sokolka

Finn Danielsen

## Group 2

Veranda Meraldi

Børge Damgård

Trond Robertson

Naja Elisabeth Mikkelsen

Michael Køie Poulsen

## Group 3

Hilde Fålun Strøm

Ilja Leo Lang

Agnieszka Tatarek

Ian Davis

Stein Sandven

Lisbeth Iversen