The Ocean Data Dojo project and workshop objectives

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Ocean Data Dojo Workshop 2 – Recommendations for improved data value chains,
Online, 15-16 December 2022

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Outline

- Svalbard Science Forum & Svalbard Scientific Grants
- Project objectives
- A generic data delivery chain
- Main elements of the workshops
- Example data delivery chains

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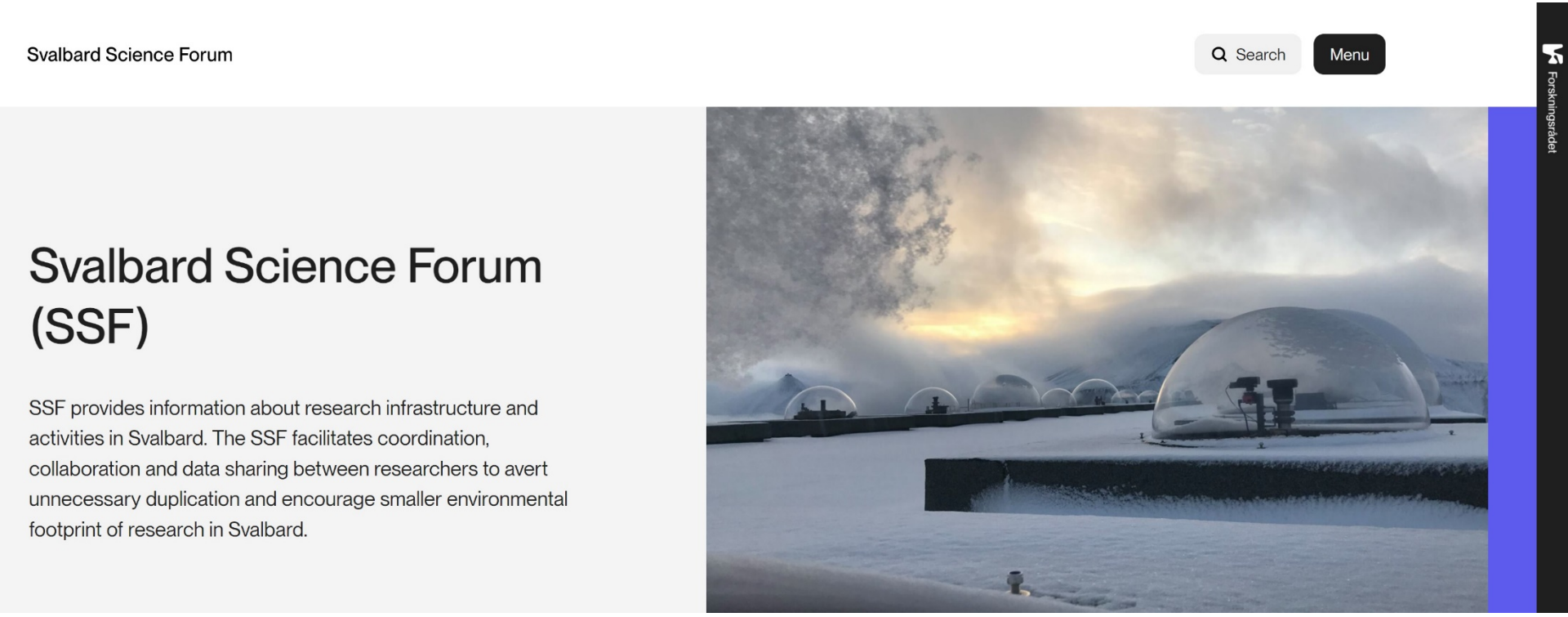
Svalbard Science Forum

https://www.forskningsradet.no/en/svalbard-science-forum/



Instruments: Arctic Field Grant **Svalbard Strategic Grant** Research in Svalbard (RiS) Svalbard Science Conference Research Communities (Ny-Ålesund, Longyearbyen, Hornsund and Barentsburg) Planning & Logistics Research Permissions

Objectives

- The Ocean Data Dojo project aims to identify and propose solutions for closing gaps in FAIR data management practices for ice-ocean observing around Svalbard across disciplines and projects.
  Specific objectives:
  - Organise two workshops to gather documentation about data delivery chains, standards and workflows used in ongoing ice-ocean research projects. Furthermore, discuss mechanisms to stimulate collaboration on FAIR data management among Norwegian initiatives.
  - Promote the workshops and the results through the CAPARDUS (Capacity-building in Arctic Standardisation Development) project's web site, and in relevant national and international networks for wider competence building in FAIR data management.
  - Recommend activities to stimulate collaboration on FAIR data management around Svalbard.

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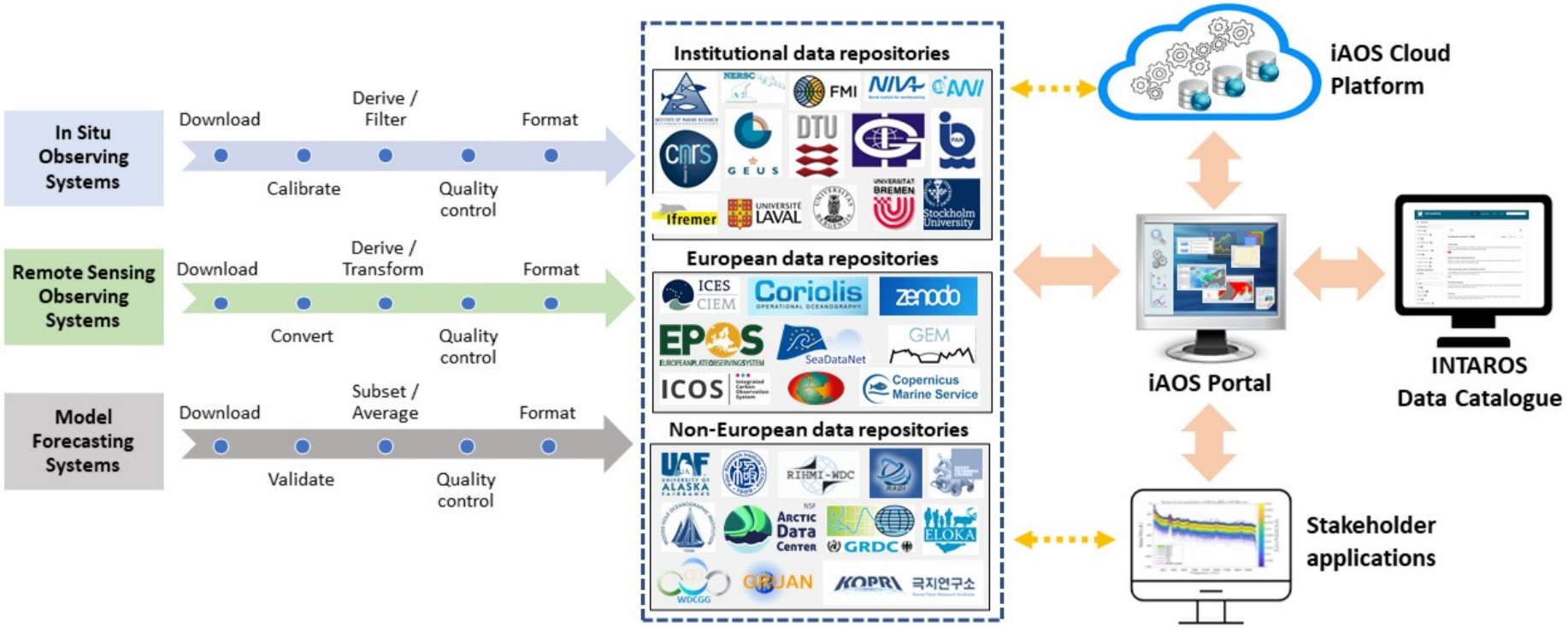
A generic data delivery chain

- Focus in Ocean Data Dojo: Selected sea ice - ocean in situ observations



INTAROS Data Delivery Chain (Hamre et al., 2021)

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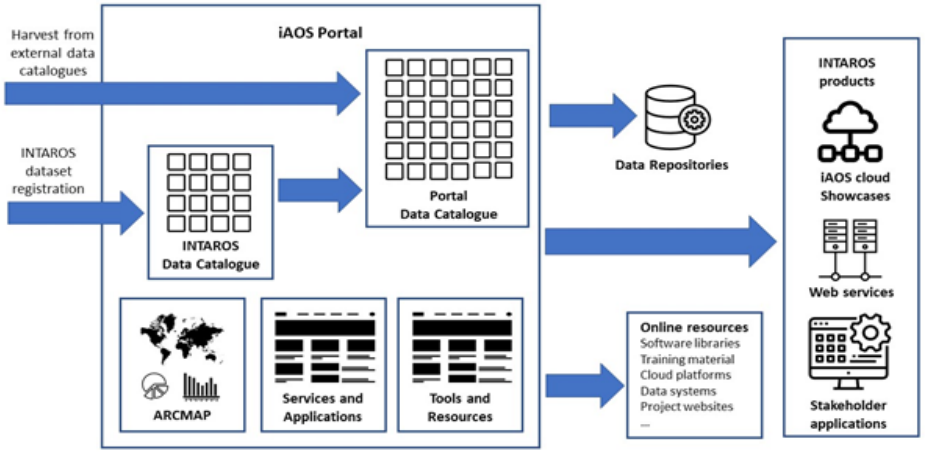
iAOS Portal

- Data catalogue and portal platform established
- Generic portal design
  - INTAROS data catalogue
  - Portal data catalogue
  - ARCMAP
  - Services & Applications
  - Tools and resources
- Data stored in sustained repositories
- Open standard interfaces
- Portal data catalogue
  - >500 datasets harvested
  - Leveraging open APIs
  - Reusing community plugins

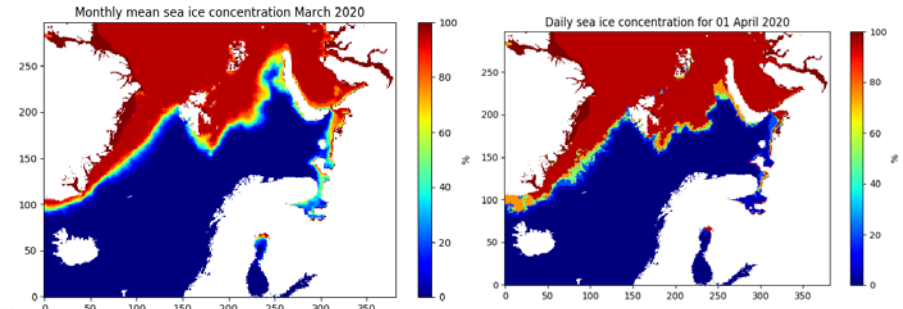


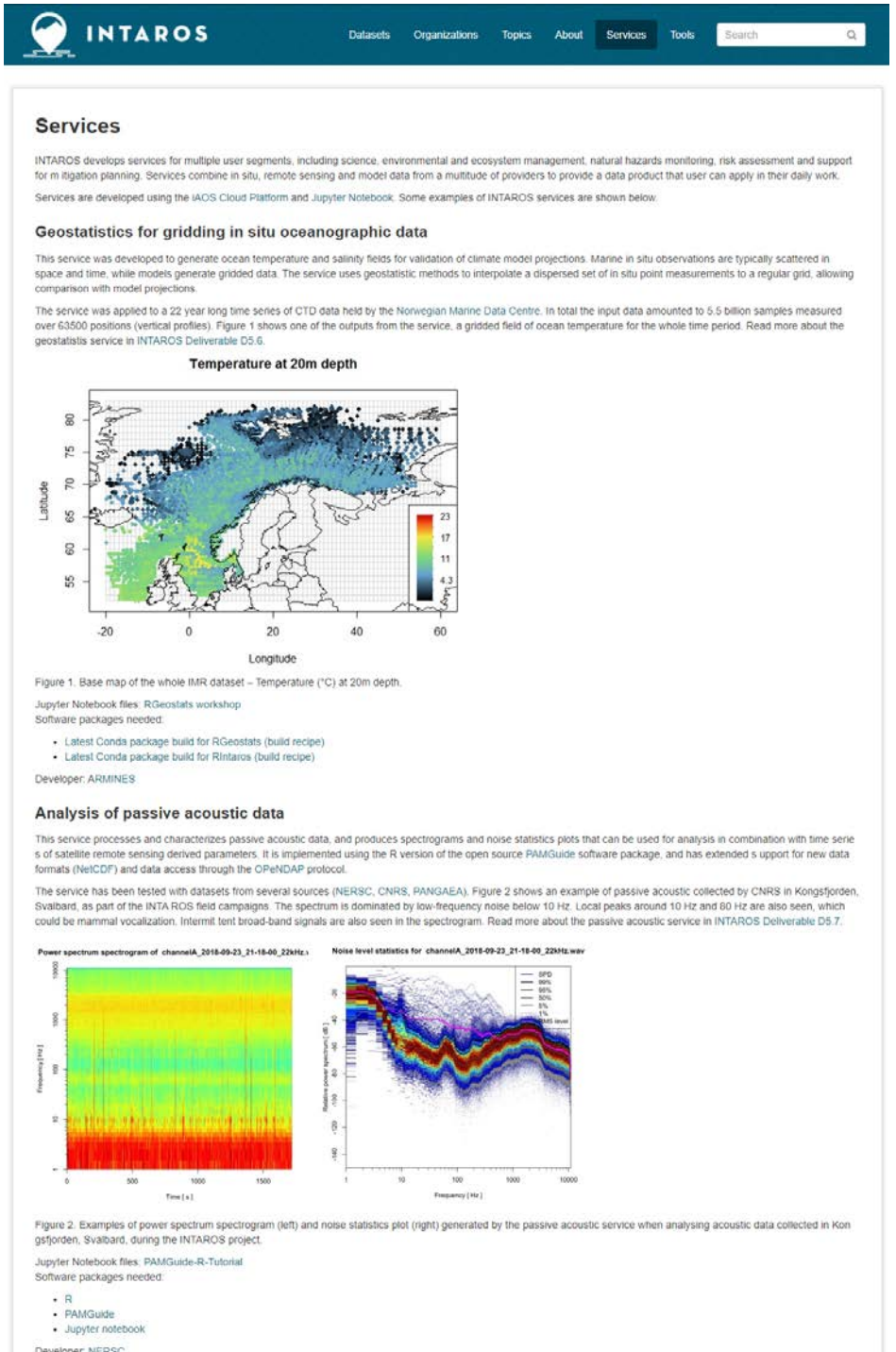
Major components of the iAOS Portal and their interconnections.

https://portal-intaros.nersc.no/

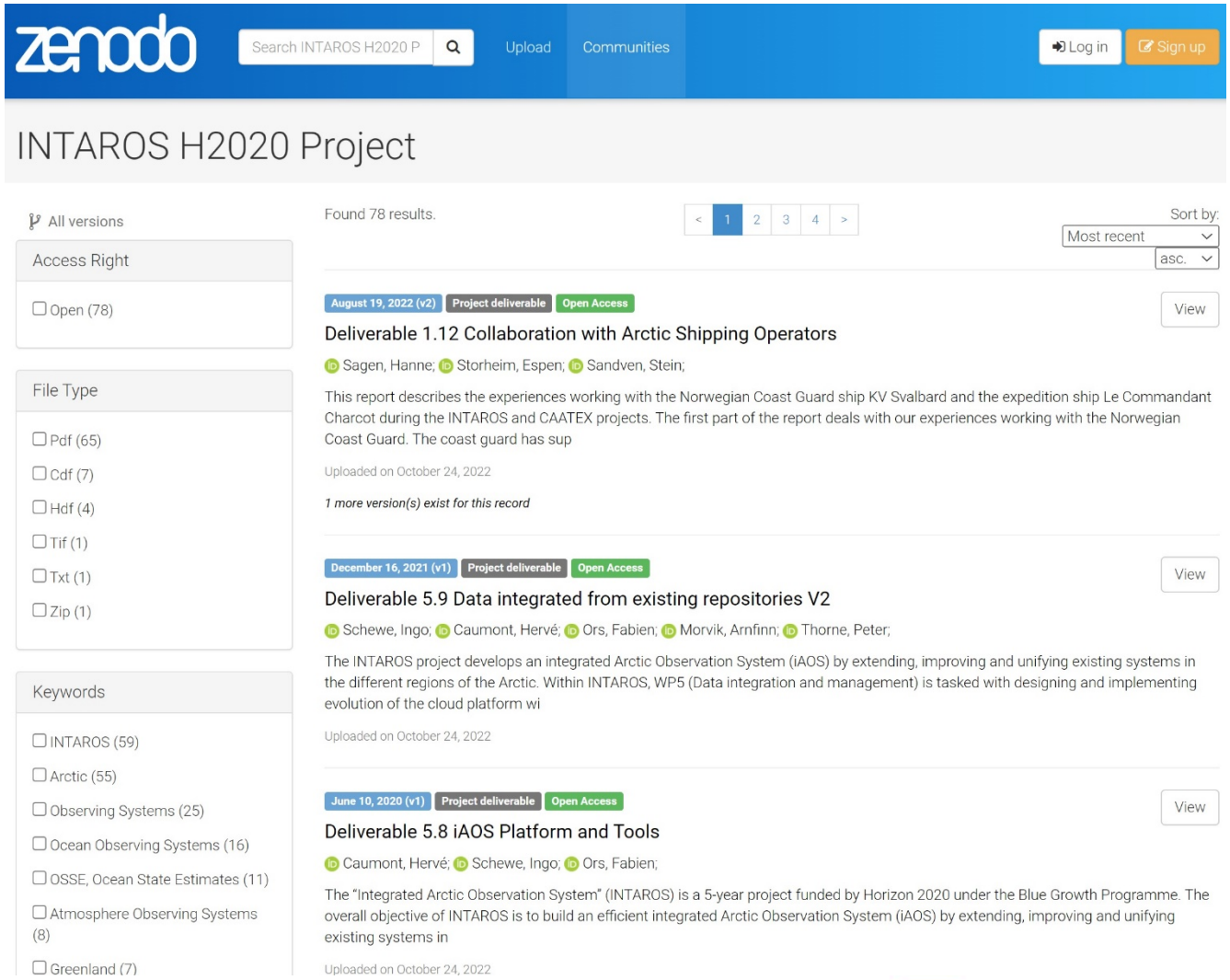
iAOS Portal

- Promotion spaces for
  - Showcases/Applications
  - Cloud services
  - WPS services
  - Geostatistics libraries
- Open for new entries
- Marketplace for future iAOS developments
- Will be maintained by NERSC





INTAROS Zenodo community



https://zenodo.org/communities/intaros-h2020

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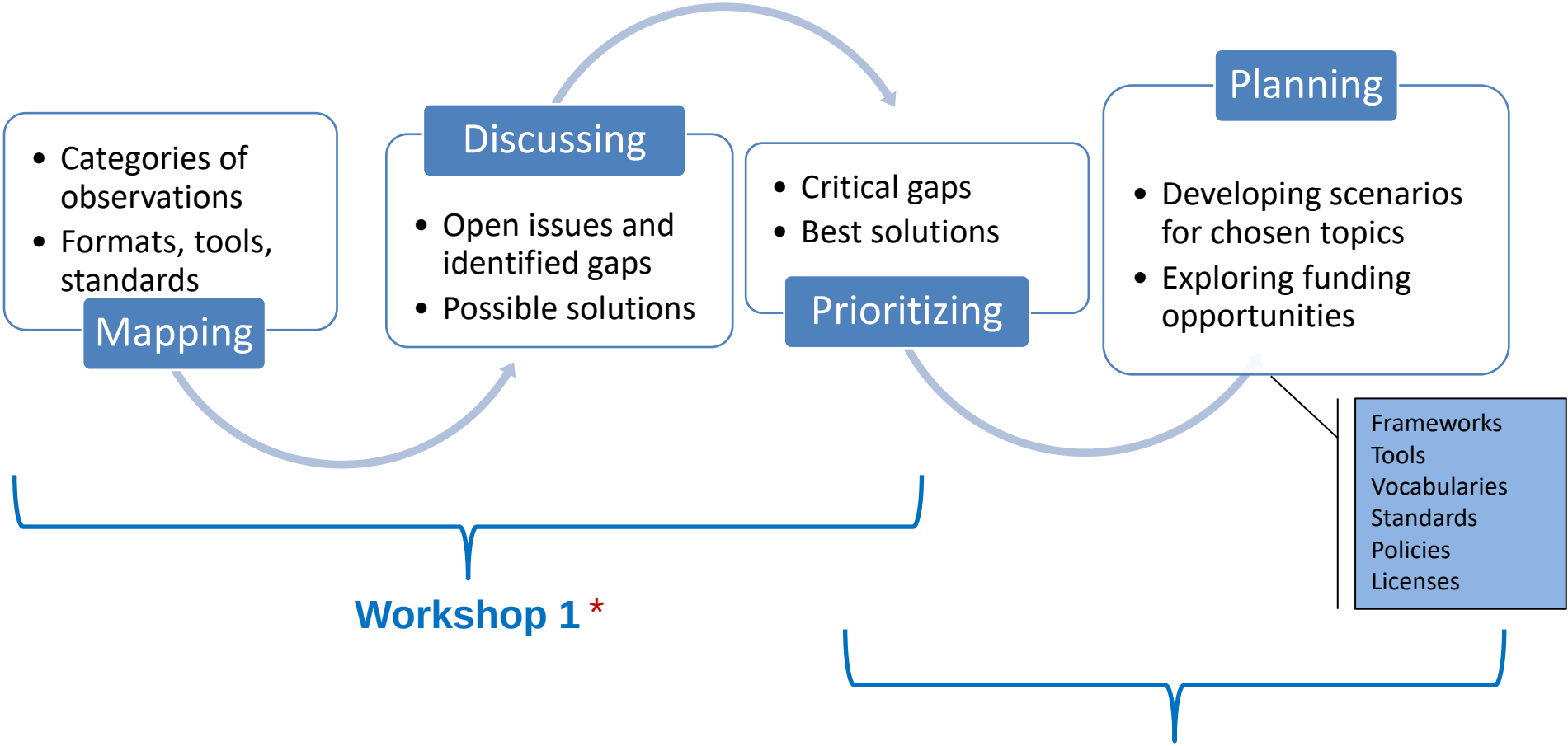
Main elements of workshops



*Workshop reports and presentations

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Example data delivery chains

Ocean moorings

Vessels

Drifters

Drones

Citizen Science

Seismometers

Ice stations

FAIR data principles

Metadata harmonisation

Vocabularies and conventions

Data policies and licenses

Rosetta file conversion tool

Nansen Legacy tools

CMEMS Arctic INSTAC tools

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Ocean Data Dojo workshop - 01 November 2022 | capardus.nersc.no

capardus.nersc.no

Capacity-building in Arctic Standardisation Development

Capacity-building in Arctic standardisation development
H2020 Grant agreement no. 869673

Home | Workshops | Meetings | Documents | Publication materials | Links and references | About

Ocean Data Dojo workshop - 01 November 2022

The Ocean Data Dojo project will engage experts in Arctic in situ data collection in ice-ocean sciences, Citizen Science for Arctic communities, and scientific data management. The aim is to develop a joint understanding of the current practices and gaps in the data delivery chain from research driven ice-ocean observing and citizen science programs in the Svalbard region. The workshop programme is available below.

Location
Bergen, Hotel Terminus
Start date
Tue, 11/01/2022 - 09:00
End date
Tue, 11/01/2022 - 17:00
Document files

- Workshop agenda
- The Ocean Data Dojo project and workshop objectives, Torill Hamre, NERSC
- FAIR data principles, metadata and data standards, documentation and formatting tools, Lara Ferrighi, METNO
- INTAROS metadata harmonisation for ocean mooring data, Arnfinn Morvik, IMR
- IOPAN oceanographic measurements from vessels and moorings in the Svalbard region, Agnieszka Beszczynska-Möller, IOPAN
- UAV real-time data acquisition, processing and visualization system: current challenges and future developments, D. Petrocelli
- Developing and using new drifters to measure drift and waves in sea ice and in open ocean, Gaute Hope, METNO
- Using the ICEWATCH system for collecting sea ice data through citizen science, William Copeland, METNO
- Data delivery chains for SIOS Core Data SCD4 Oceans, Ilkka Matero, SIOS

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Questions?