CAPARDUS - Capacity-building in Arctic standardization development

Coordination and Support Action under EC Horizon2020
Grant Agreement no. 869673

Project coordinator: Nansen Environmental and Remote Sensing Center

Deliverable 9.4

Data management plan

Start date of project:	01 December 2019	Duration:	36 months
Due date of deliverable:	31 March 2020	Actual submission date:	31.03.2020
Lead beneficiary for preparing the deliverable:	NERSC		

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Version	DATE	CHANGE RECORDS	LEAD AUTHOR
1.0	31.03.2020	Version 1.0	T. Hamre
	31.03.2020	Review	S. Sandven

Approval	Date:	Sign. Coordinator

DISSEMINATION LEVEL		
PU	Public, fully open	X
CO	Confidential, restricted under conditions set out in Model Grant Agreement	
CI	Classified, information as referred to in Commission Decision 2001/844/EC	

EXECUTIVE SUMMARY

Capacity-building in Arctic Standardisation Development (CAPARDUS) is a Coordination and Support Action funded by Horizon 2020 under H2020-LC-CLA-07-2019: The changing cryosphere: uncertainties, risks and opportunities, topic d) Arctic Standards. CAPARDUS will organize a series of dialogue meetings, workshops and research schools in Greenland, Svalbard, Canada and Arctic Russia. In connection with these events and interactions with community-based observing systems, personal data is collected from invited participants and contributors to work in CAPARDUS. Procedures for protecting personal data is described in a separate deliverable, D10.2 POD Requirement no.2. In addition, community-based data is collected for certain of these systems, on fishing, hunting and herding activities carried out by members of the engaged local communities. This document described how personal data and community-based monitoring data collected as part of CAPARDUS will be managed in accordance with the GDPR, the FAIR Data Principles and the CARE Principles for Indigenous Data Governance.

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1. Introduction

Capacity-building in Arctic Standardisation Development (CAPARDUS) is a Coordination and Support Action funded by Horizon 2020 under H2020-LC-CLA-07-2019: The changing cryosphere: uncertainties, risks and opportunities, topic d) Arctic Standards. The overall objective of CAPARDUS is to establish a comprehensive framework for development, understanding and implementation of Arctic standards. The framework will integrate standards used by communities active in the Arctic including research and services, Indigenous and local communities, commercial operators and governance bodies. This will support sustainable economic development, safe activities, emergency prevention and response, and improved understanding and conservation of the environment.

CAPARDUS will organize a series of dialogue meetings, workshops and research schools in Greenland, Svalbard, Canada and Arctic Russia. In connection with these events and interactions with community-based observing systems, personal data will be collected from invited participants and contributors to the work in CAPARDUS. In addition, community-based data is collected for certain of these systems, on fishing, hunting and herding activities carried out by members of the engaged local communities.

2. Usage of existing metadata

The project will not produce any new scientific or community-based data, but will deal with metadata for digital resources such as documents. In designing and demonstrating the Arctic Common Practices System (WP6), semantic and vocabulary community standards will be used and, where needed, extended to a) identify content in the documents and b) standardize key metadata describing them. In the tagging of Arctic common practice documents in WP6, semantic and controlled vocabulary descriptors generated through mining document content and metadata will be openly accessible via common interchange formats on the web (e.g. JSON, RDF). Similarly, document metadata will also be made available online. Further, any Arctic-specific extensions to these ontologies during CAPARDUS (which will be credited as such) will be openly available via their web-based and W3C-compliant distribution channels.

Metadata describing the Arctic common practice documents gathered during WP6 will be archived in a publicly available and open repository (e.g. GitHub) following the project's completion. This will allow the prototyping outcomes and demonstration of the ABPS be taken up to develop a fully-fledged system following this project. Arctic extensions to ontologies required to capture CAPARDUS phenomena and stakeholder concerns will be preserved in the ontologies which have been sustained in the long-term by federated repositories. Ontology curators and editors will ensure the quality of these extensions and will be engaged through WP6 (AWI).

3. Management of personal data

Personal data for potential participants in CAPARDUS activities will besides name and contact information include information on gender, age group, experiences and interests in the respective local community. These data, together with their signed information and consent form and beneficiary confirmations (Deliverable 10.2, POD – Requirement no. 1 (Protection of personal data)), will be managed according to the General Data Protection Regulation (GDPR) 2016/679 and stored by NERSC.

Management of personal data will thus include management of the personal data collected to support CAPARDUS activities in the targeted local communities, the signed informed consent forms from participants and the signed confirmations that a beneficiary has lawful basis for its data processing carried out within the CAPARDUS project.

Personal data about members of local communities will only be made available to organizers of CAPARDUS activities and events in the respective areas where the potential participants may be involved. Personal data about a beneficiary will only be shared with the Principal Investigator of the respective beneficiary.

4. Management of community-based data

Data collected by members of the involved local communities on fishing, hunting and herding of reindeers, will be managed by the respective local community observing system, according to common practices for community-based monitoring. The operator of each local community observing system is responsible for the safe storage and secure access to data collected by members of their local communities. The community based monitoring data will be managed according to the FAIR Data Principles and the CARE Principles for Indigenous Data Governance.

CAPARDUS will cooperate with the following community-based observing systems. The contact persons, who are responsible for data management in each of the CBM systems, are listed below and most of them are participants in the project.

- Greenland: Piniakkanik Sumiiffinni Nalunaarsuineq (PISUNA; Ministry of Fisheries, Hunting and Agriculture, Att. Nette Levermann, e-mail nele@nanoq.gl; Qeqertalik Municipality, Att. Paviarak Jakobsen, e-mail paja@qeqertalik.gl; Greenland Association of Fishermen and Hunters (KNAPK), e-mail knapk@knapk.gl).

- Svalbard: Environmental Monitoring by Expedition Cruise Operators (NERSC, Att. Lisbeth Iversen, e-mail lisbeth.iversen@nersc.no; NORDECO, Att. Michael K. Poulsen, e-mail mkp@nordeco.dk).

- Yakutia, Arctic Russia: Yakutia Community-Based Monitoring (Centre for Support of Indigenous Peoples of the North, Att. Rodion Sulyandziga and Nikita Vronskii, e-mail rodion@mailbox.org and nvronski@gmail.com).

- Canada: Exchange for Local Observations and Knowledge for the Arctic (ELOKA; University of Colorado, Boulder, Att. Noor Johnson, e-mail Noor.Johnson@Colorado.EDU).

- Alaska: Alaska Arctic Observatory and Knowledge Hub (AAOKH; University of Alaska Fairbanks, Att. Olivia Lee, e-mail oalee@alaska.edu).

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This report is made under the project

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Project partners:

No	Acronym	Participant Legal Name	Country
1	NERSC	STIFTELSEN NANSEN SENTER FOR MILJO OG FJERNMALING	NO
2	NORDECO	NORDISK FOND FOR MILJØ OG UDVIKLING	DK
3	Ilisimatusarfik	Ilisimatusarfik, Grønlands Universitet, University of Greenland	GL
4	AWI	Alfred-Wegener-Institut Helmholtz-Zentrum fur Polar- und Meeresforschung	DE
5	IEEE	IEEE France Section	FR
6	NINA	STIFTELSEN NORSK INSTITUTT FOR NATURFORSKNING NINA	NO
7	UCPH	KOBENHAVNS UNIVERSITET	DK
8	NIERSC	Scientific foundation Nansen International Environmental and Remote Sensing Centre	RU
9	ARC-HU	Arctic Research Centre, Hokkaido University	JP

Subcontractors

	ELOKA	Exchange for Local Observations and Knowledge of the Arctic	USA
	UAF/IARC	University of Alaska Fairbanks/ International Arctic Research Center	USA
	CSIPN	Center for Support of Indigenous Peoples of the North	Russia
	E84	Element 84	USA