

**First Forum
Seoul, Republic of Korea, 24-26 October 2011**

**Arctic Spatial Data Infrastructure
(Arctic SDI) ***

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Arctic Spatial Data Infrastructure (Arctic SDI)

Pan-Arctic Cooperation among Ten Mapping Agencies

www.arctic-sdi.org

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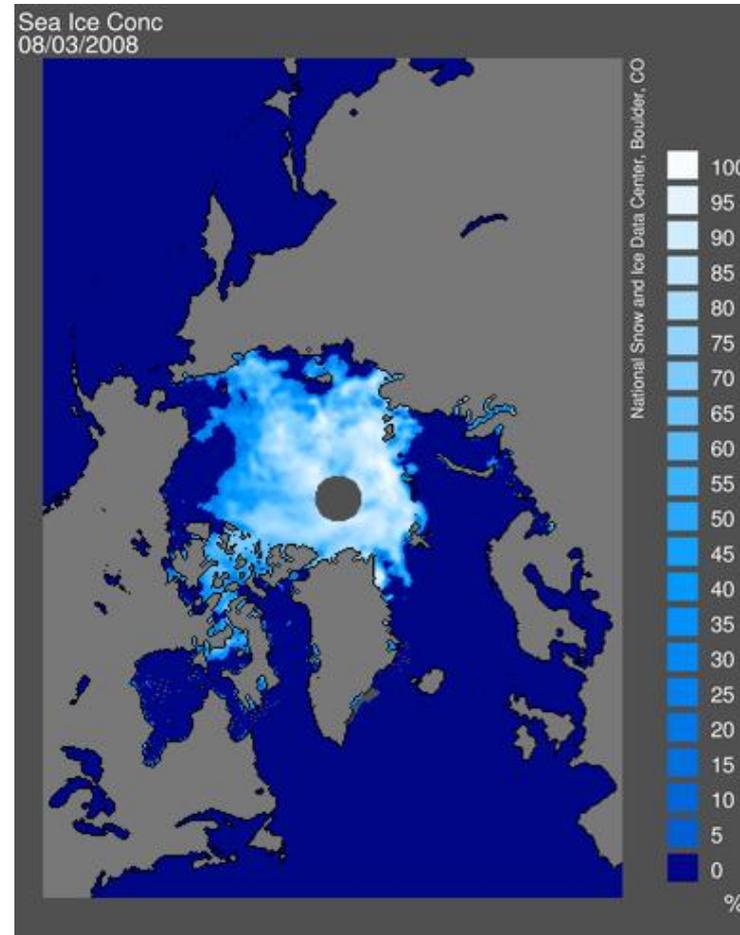


The Arctic

- 1/6 of the earth's landmass
- More than 30 million km²
- 24 time zones
- Over hundred languages

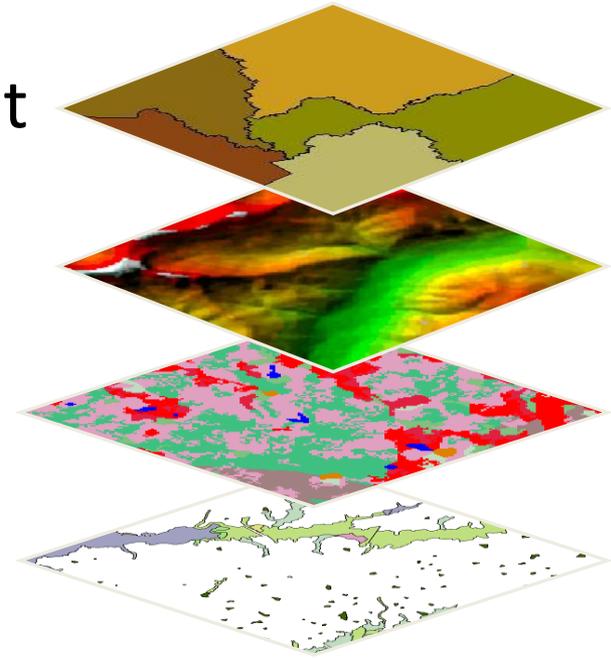


Monitoring the environment



Why Arctic SDI ?

- Wide array of spatial data around the Arctic
- Datasets are distributed throughout many organisations often not integrated or coordinated
- Arctic SDI would allow for more robust management and manipulation of data for both research and management purposes.



Participating Organisations in the Arctic SDI:

- Norwegian Mapping and Cadastre Authority
- National Land Survey of Iceland
- National Land Survey of Sweden
- Centre for Topographic Information, Canada
- National Survey and Cadastre, Denmark (Faroe Islands)
- The Government of Greenland
- National Land Survey of Finland
- The Federal Service for State Registration, Cadastre and Mapping, Russia
- US Geological Survey, USA
- Conservation of Arctic Flora and Fauna (CAFF)
Working Group of the Arctic Council



Arctic SDI support

- Arctic SDI discussions have been ongoing for a number of years
- The Arctic SDI initiative received, after a request from the Nordic Mapping Agencies, the formal support of the Arctic Council at its Senior Arctic Officials (SAO) meeting in November 2009
- Support of all the eight Arctic Council countries i.e. Canada, Denmark (Faroes, Greenland), Finland, Iceland, Norway, Russian Federation, Sweden and the United States
- The Nordic Council of Ministers and Greenland have provided funding to help insure the successful completion of the project



PROJECT FRAMEWORK

- Project phases -

Arctic SDI

Structuring Phase
2010/2011



Establishing Phase
2011/2012



Operational Phase
2012/2013

Arctic SDI

- Vision -

An Arctic SDI – based on sustainable co-operation between mandated national mapping organisations – which will provide for access to spatially related reliable information over the Arctic to facilitate monitoring and decision making

Arctic Council Working Groups and
other Scientific Communities

Governmental Authorities

Data



Analysis



Decision

Environmental
& other political
issues



Media, Public &
Education



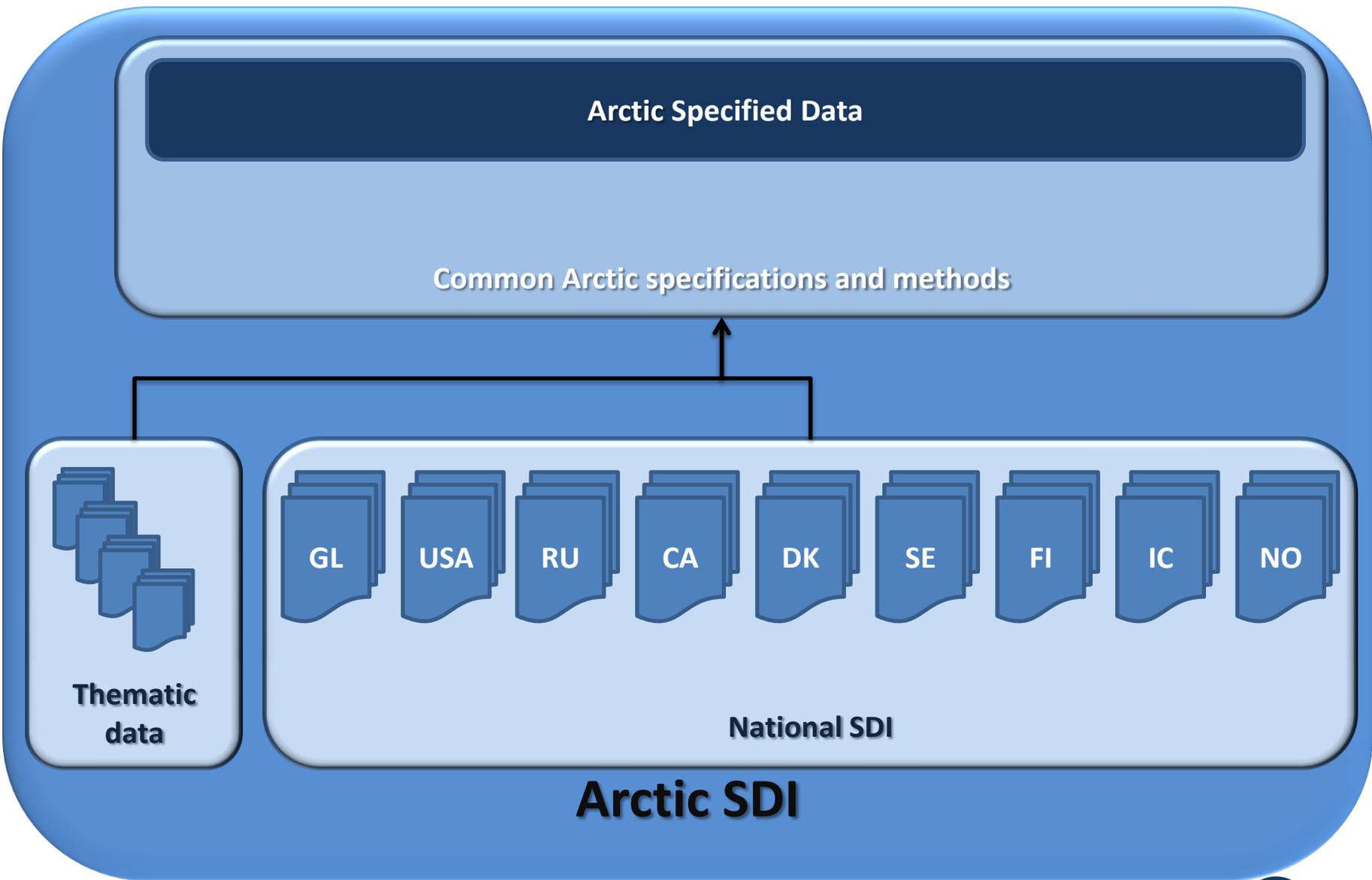
Arctic SDI

Arctic SDI
Portal

Thematic
data

NMA national
reference data

Arctic SDI draft Arcitecture



Arctic SDI

Expected results

- Access to relevant and updated geographical reference data and thematic information covering the entire circumpolar region
- Daily use of the project's web map services in schools and universities in the Arctic and elsewhere
- Possibilities for media to receive relevant and updated information
- Possibilities to foster cooperation with industry on Arctic issues

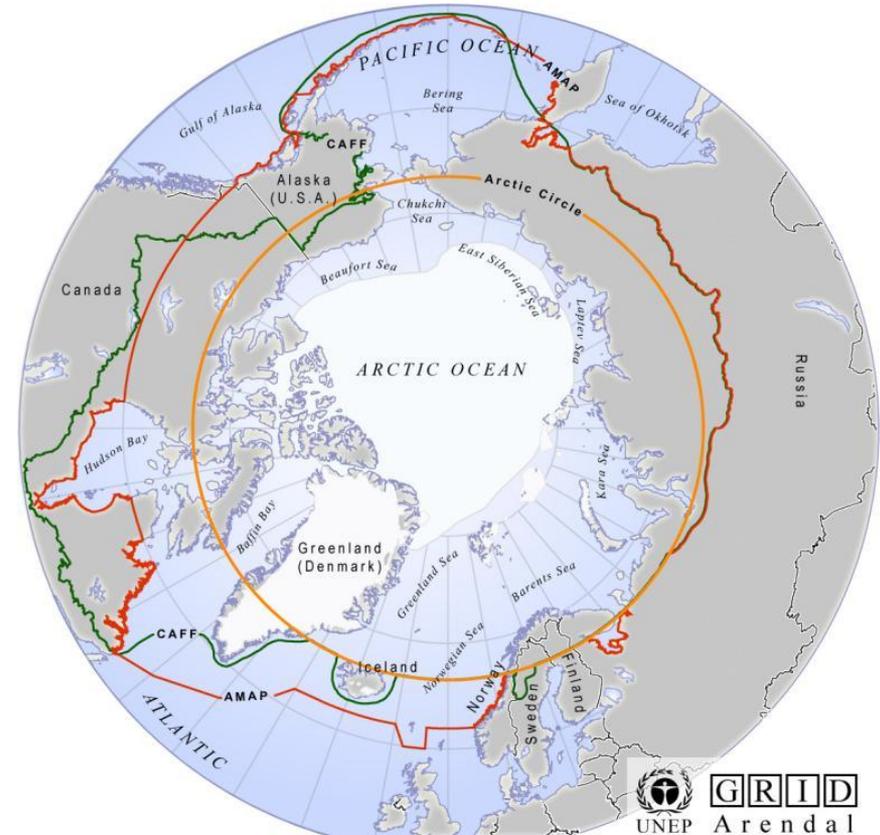


Area and reference map scale

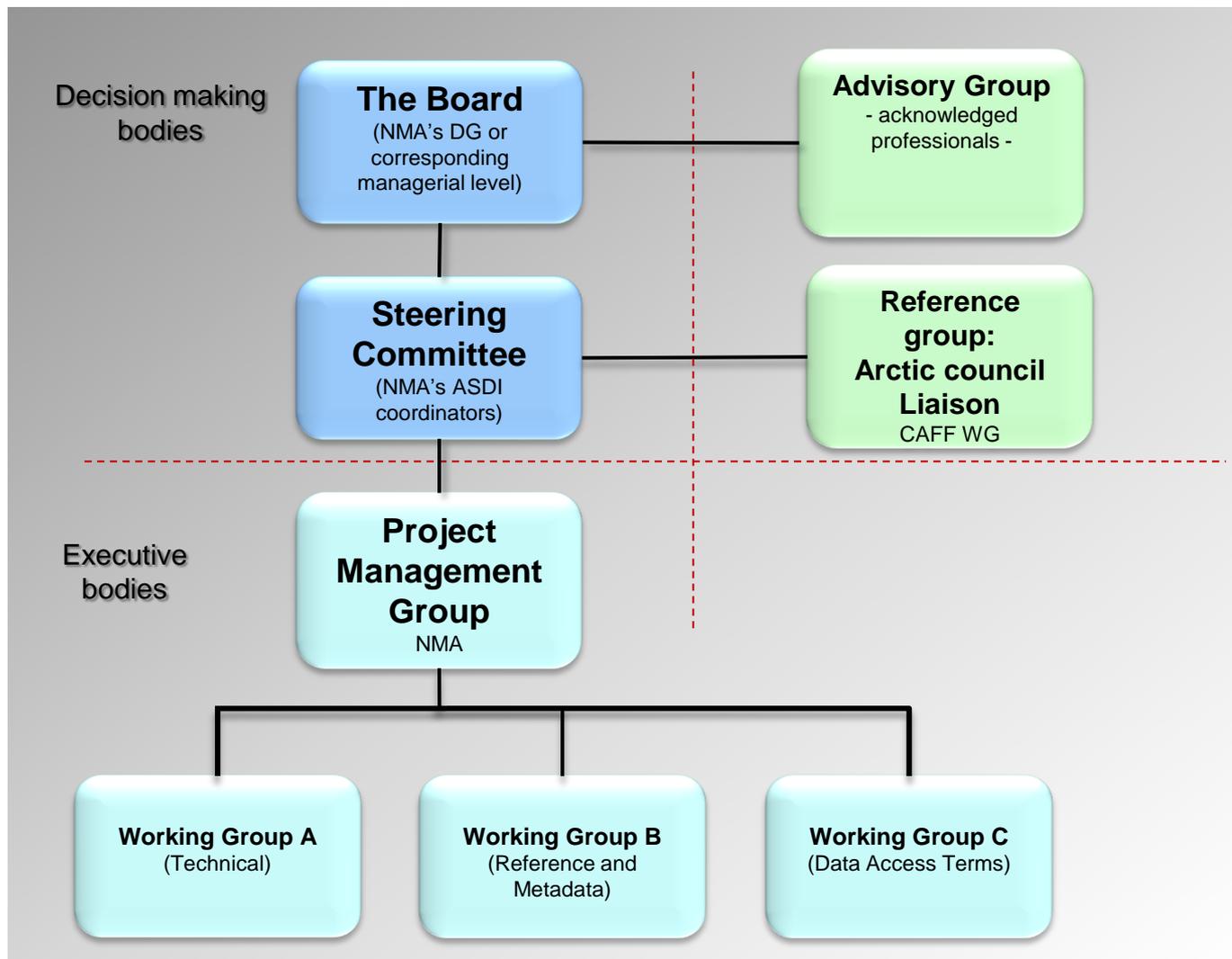
The Arctic SDI will cover the Arctic regions of the involved participating countries, as **defined by the countries themselves.**

Scale

It is envisioned that the Arctic SDI will be in the range of **1: 200 000**
– **1:1 000 000**

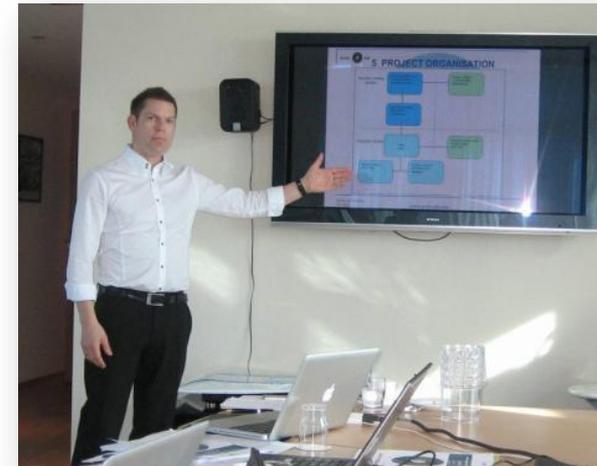


Project Organisation



Status of Arctic SDI project

- **Project Management Group** is taking care of daily work (1,5 man year, Norway and Sweden)
- **The Steering Committee** is up and running, meeting in Reykjavík in April 2011 and Moscow in September 2011
- The **Project plan** and **Project Organisation** were approved in April 2011
- Two **Working groups** were started in September 2011
- **Advisory Group** is active
- Establishment of the **MoUs between the National Mapping Agencies** is in process
- **The Board** of the Project will meet soon (Directors Generals)
- **Support** from European Environmental Agency and EuroGeographics





Thank you

www.arctic-sdi.org

