

Arctic Spatial Data Infrastructure (Arctic SDI)

Pan-Arctic Cooperation among Ten Mapping Agencies

www.arctic-sdi.org

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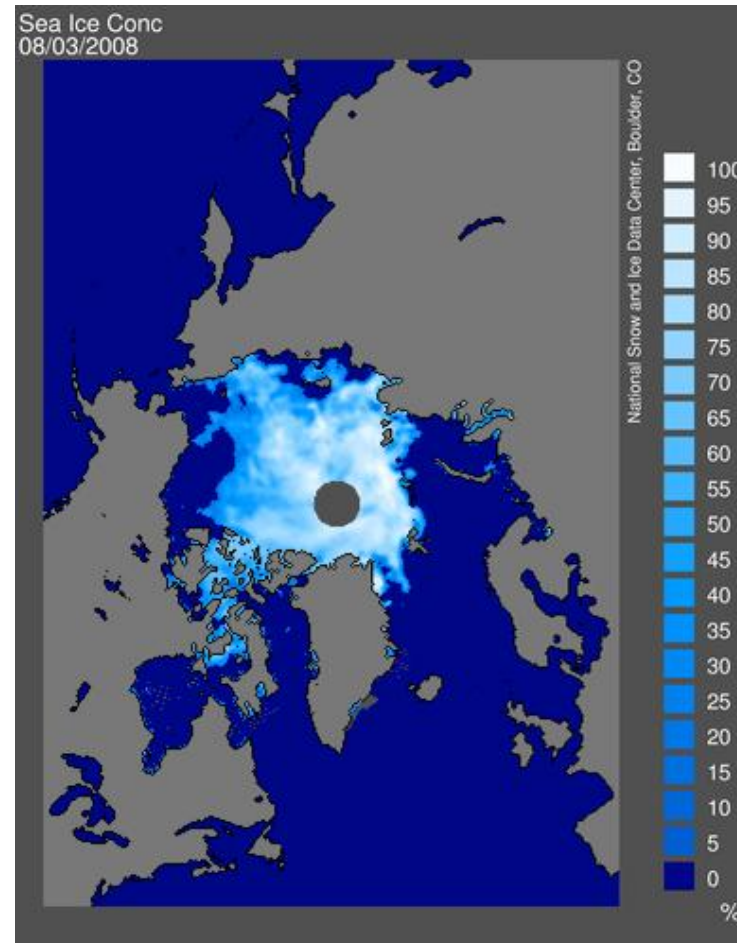


The Arctic

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

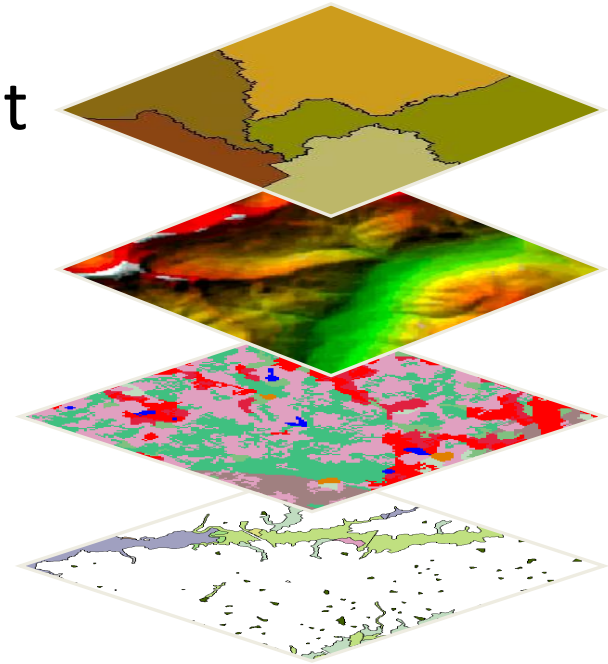


Monitoring the environment



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**



Arctic SDI

**Arctic SDI
Portal**

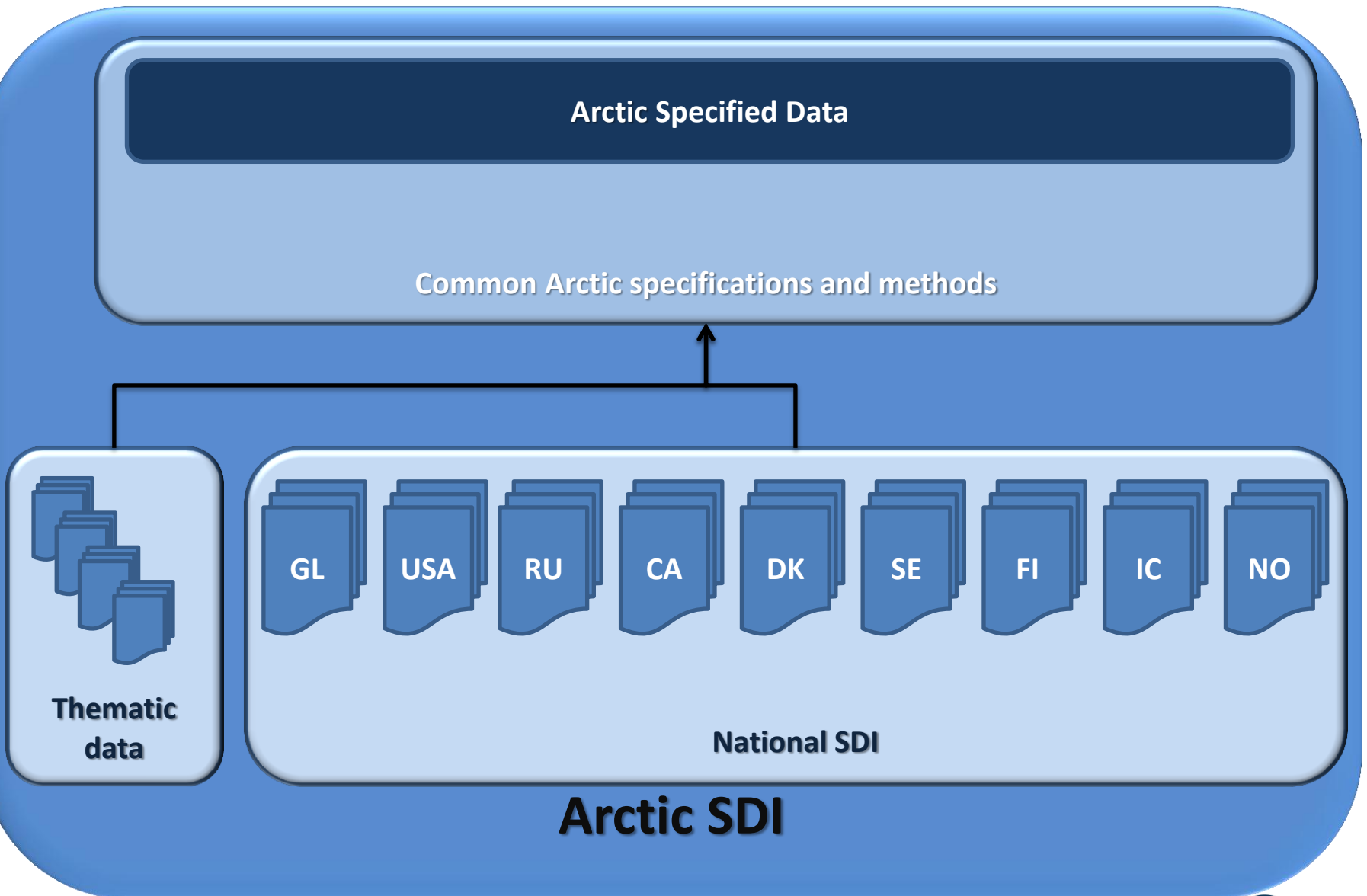
**Thematic
data**

**NMA national
reference data**

**Media, Public &
Education**



Arctic SDI draft Arcitecture



Arctic SDI : Expected results

- Access to relevant and updated geographical reference data and thematic information covering the entire circumpolar region
- Possibilities for governmental authorities and decision makers to always have access to receive relevant and updated information
- 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

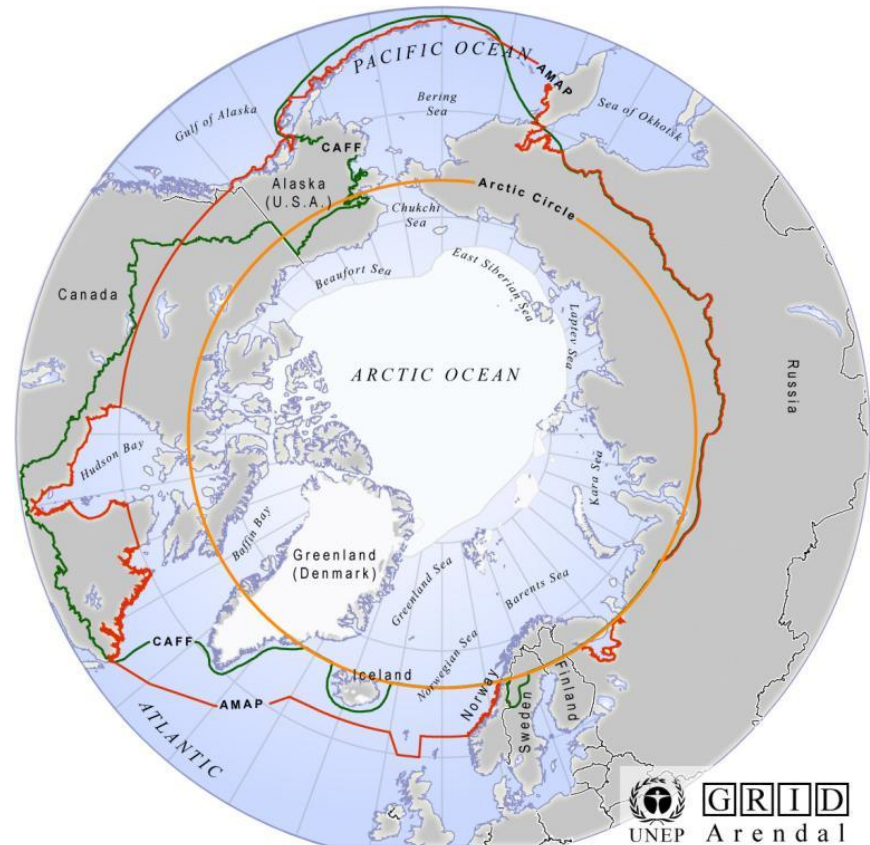


Area and reference map scale

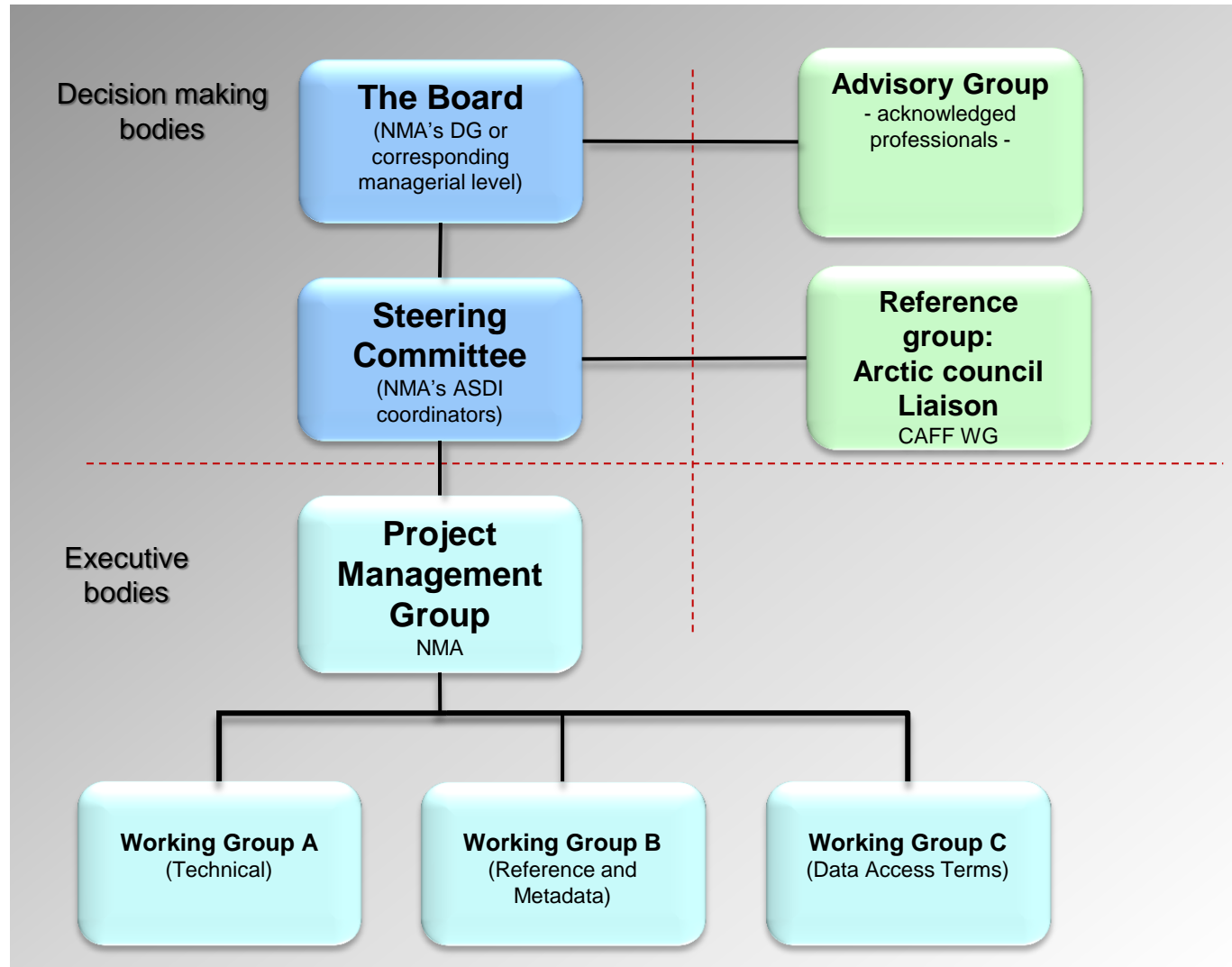
The Arctic SDI will cover the Arctic regions of the involved participating countries, as **defined by the countries themselves.**

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

