

Arctic Spatial Data Infrastructure

(Arctic SDI)

Pan-Arctic Cooperation among Ten Mapping Agencies





The Arctic

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



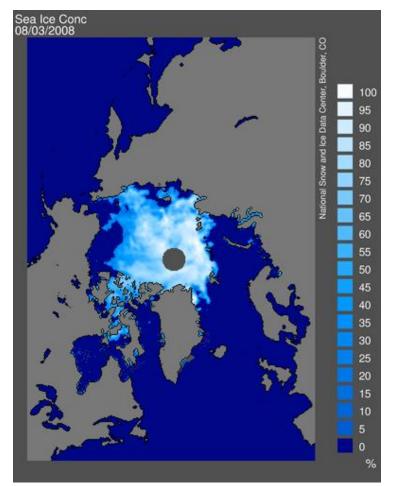




Monitoring the environment





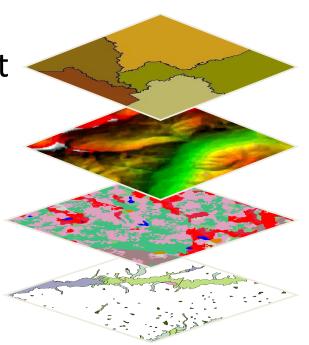






Why Arctic SDI?

- 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.

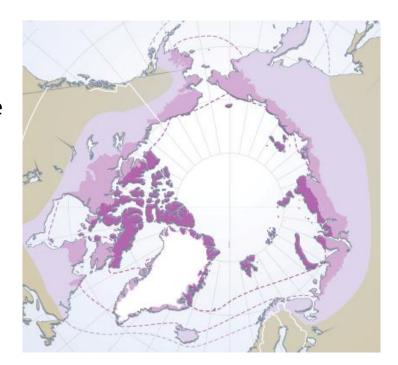




Participating Organisations in the Arctic SDI:



- 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



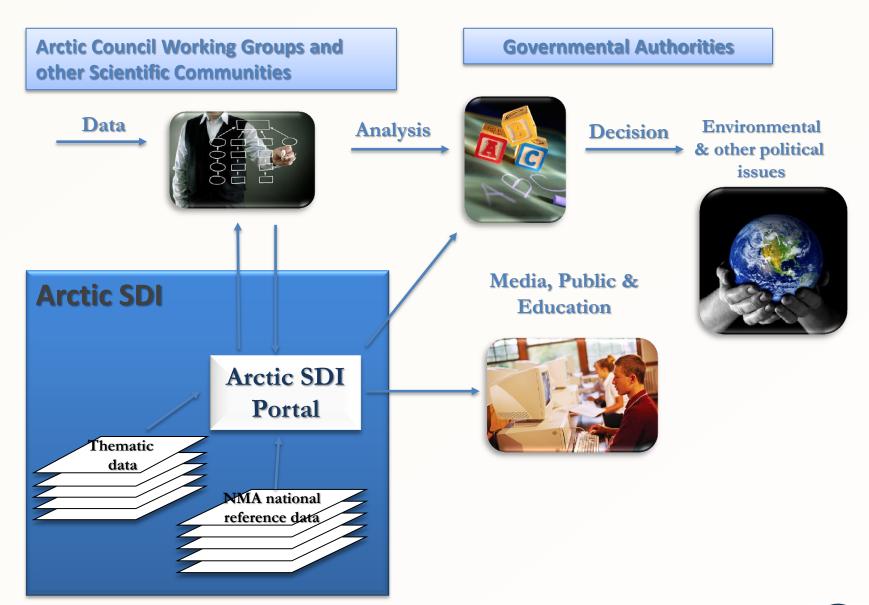


Arctic SDI

- Vision -

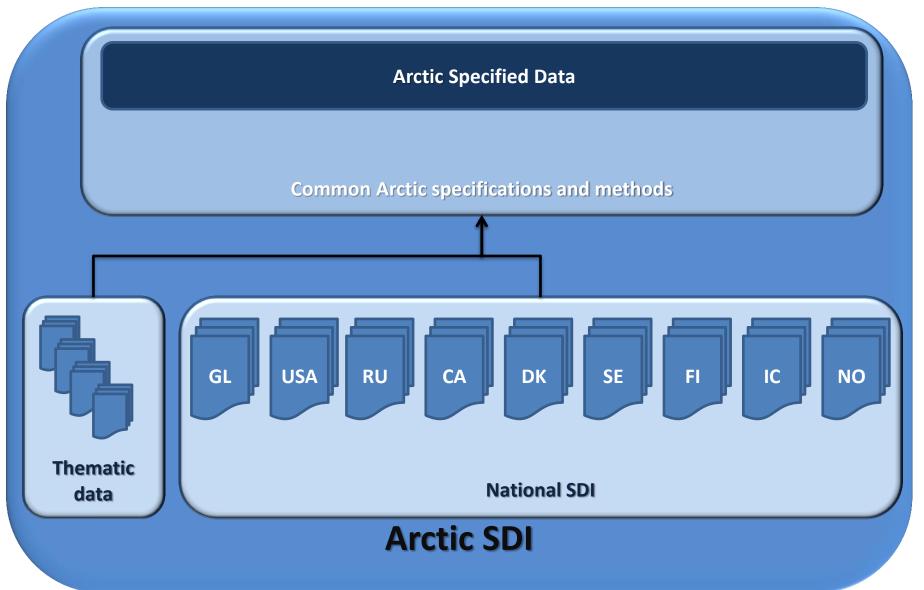
An Arctic SDI – based on sustainable cooperation between mandated national mapping organisations – which will provide for access to spatially related reliable information over the Arctic to facilitate monitoring and decision making





Arctic 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







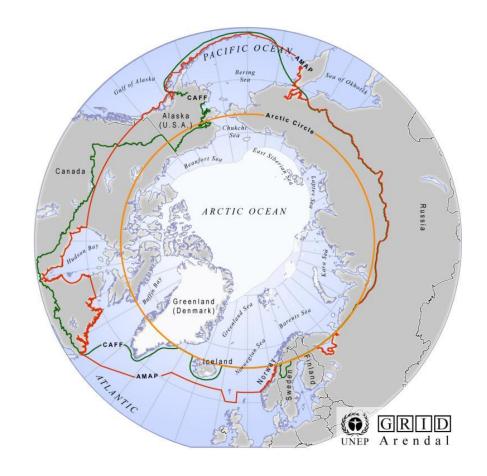
Area and reference map scale

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

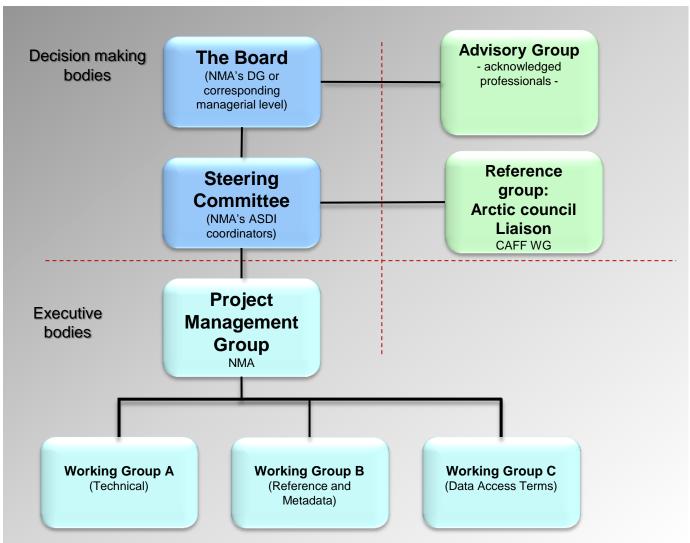
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Project Organisation







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 and in Copenhagen 21-22. Februar 2012
- 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** in is in process
- **The Board** of the Project will meet on 30th March 2012 in Iceland (Directors Generals)
- **Support** from European Environmental Agency and EuroGeographics

























