

Arctic SDI basic presentations

The standardized Arctic SDI slide show consists of 2 basic presentations of which one is technical. Supplementary slides can be found in a separate file.

- Arctic SDI standard presentation_V1.0_150311
- Arctic SDI technical presentation_V1.0_20150219
- Arctic SDI supplementary slides _V1.0_150311
 - ✓ The series are to be seen upon as gross series.
 - They can be used as they are but it is recommended to edit/modify/complete due to the audience
 - ✓ Slides from the supplementary could be used as complement



Arctic Spatial Data Infrastructure - A circumpolar mapping initiative -Technical presentation

Name of conference or meeting Place

Name Organization or logo

www.arctic-sdi.org

Name Organisation or logo





What is a <u>Spatial Data Infrastructure?</u>

SDI is a **coordinated series of agreements** on technology standards, institutional arrangements, and policies that **enable** the **discovery and use** of **geospatial information** by **users** and for purposes other than those it was created for

Kuhn, W. (2005) presentation "Introduction to Spatial Data Infrastructures".



Spatial Data Infrastructure Basics

- Data and metadata are managed by the data originator and/or owner
- Tools and services connect via computer networks to the various sources through a common end point

To achieve the objectives

- coordination is necessary
- standards are essential

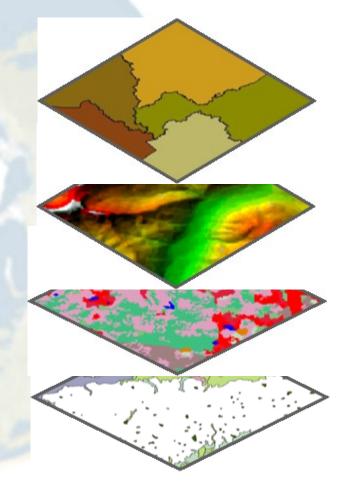
Steiniger, S., and Hunter, A.J.S. (2012) preprint "Free and open source GIS software for building a spatial data infrastructure".



Main Content of the Artic SDI

The Arctic SDI is an infrastructure that provides a web portal with easy access to:

- A geoportal for geospatial data viewing and discovery
- A searchable metadata catalogue
- Authoritative reference data as a Web Map Service (WMS)
- Thematic data (birds, icecover, ship routes, land cover change, flora etc.)





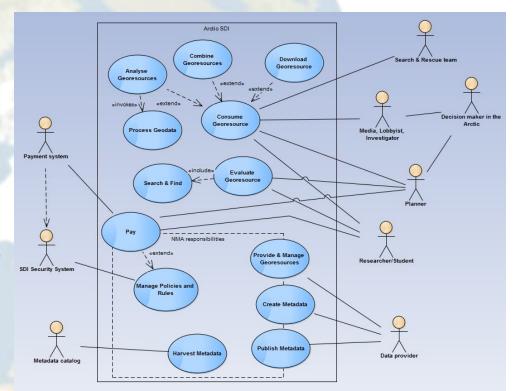
Arctic SDI from a technical perspective

- Easy access to updated spatial data in the Arctic
 - National Mapping Agencies
 - Thematic data producers
- Use National SDI's
 - Add as little overhead as possible
- Some common services are needed
 - Cascading service
 - Map cache
 - Metadata catalogue
 - Geoportal
- Geospatial Digital Rights Management
 - Authentication
 - Authorisation
 - (Payment)



Use Cases

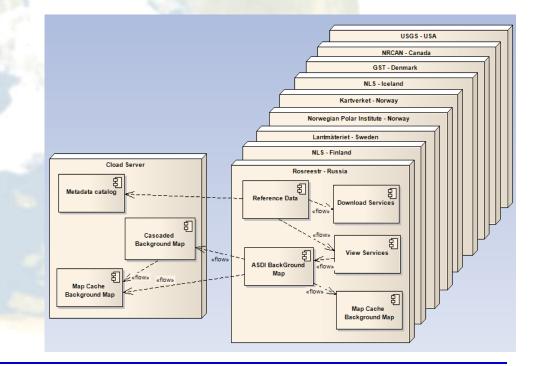
- Actors
 - Decision makers
 - Media
 - Lobbyists
 - Investigators
 - Planners
 - Researchers/Students
 - Data providers
 - Supporting Systems
- Use cases
 - Provide & Manage Georesources
 - Create Metadata
 - Publish Metadata
 - Evaluate Georesources
 - Consume Georesources





Deployment

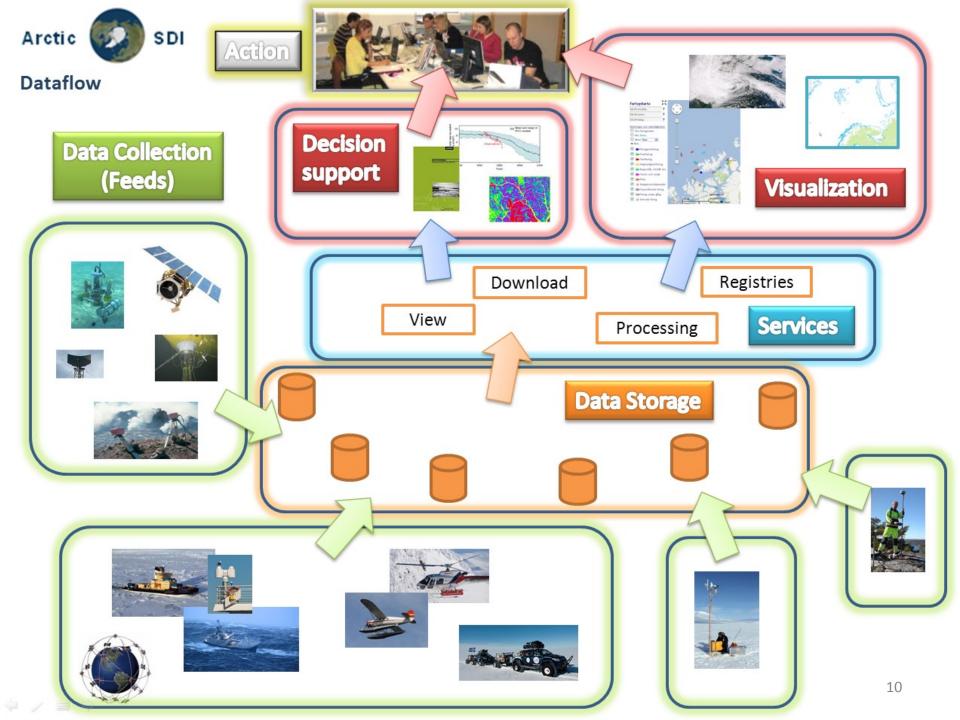
- Only covering Arctic Mapping Agencies responsibilities
- Arctic SDI Components and their physical deployment environment
- Points out the need of 24-7 runtime





Data, technology and standards

- What data is provided in the SDI?
 - Reference data
 - Thematic data
- Standards
 - Focus on WMS, CSW
 - ISO19115, ISO19139
 - WFS, REST API for download





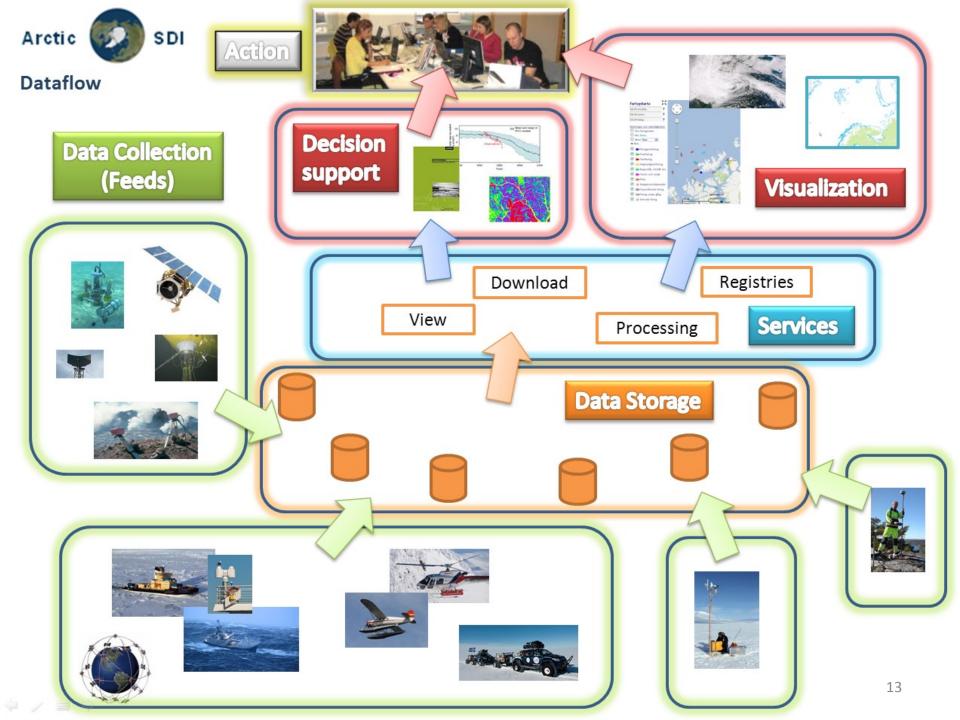
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CAFF – EOP Available on Arctic SDI Geoportal

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