

***Make Arctic data accessible and reusable – roadmap to open and cost effective data management policy***

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[arctic-sdi.org](http://arctic-sdi.org)



- System of systems
  - Data
  - Platforms & Services
  - Resources (finance and personel)
  - Governance (Policies, agreements)



## Why Arctic SDI?

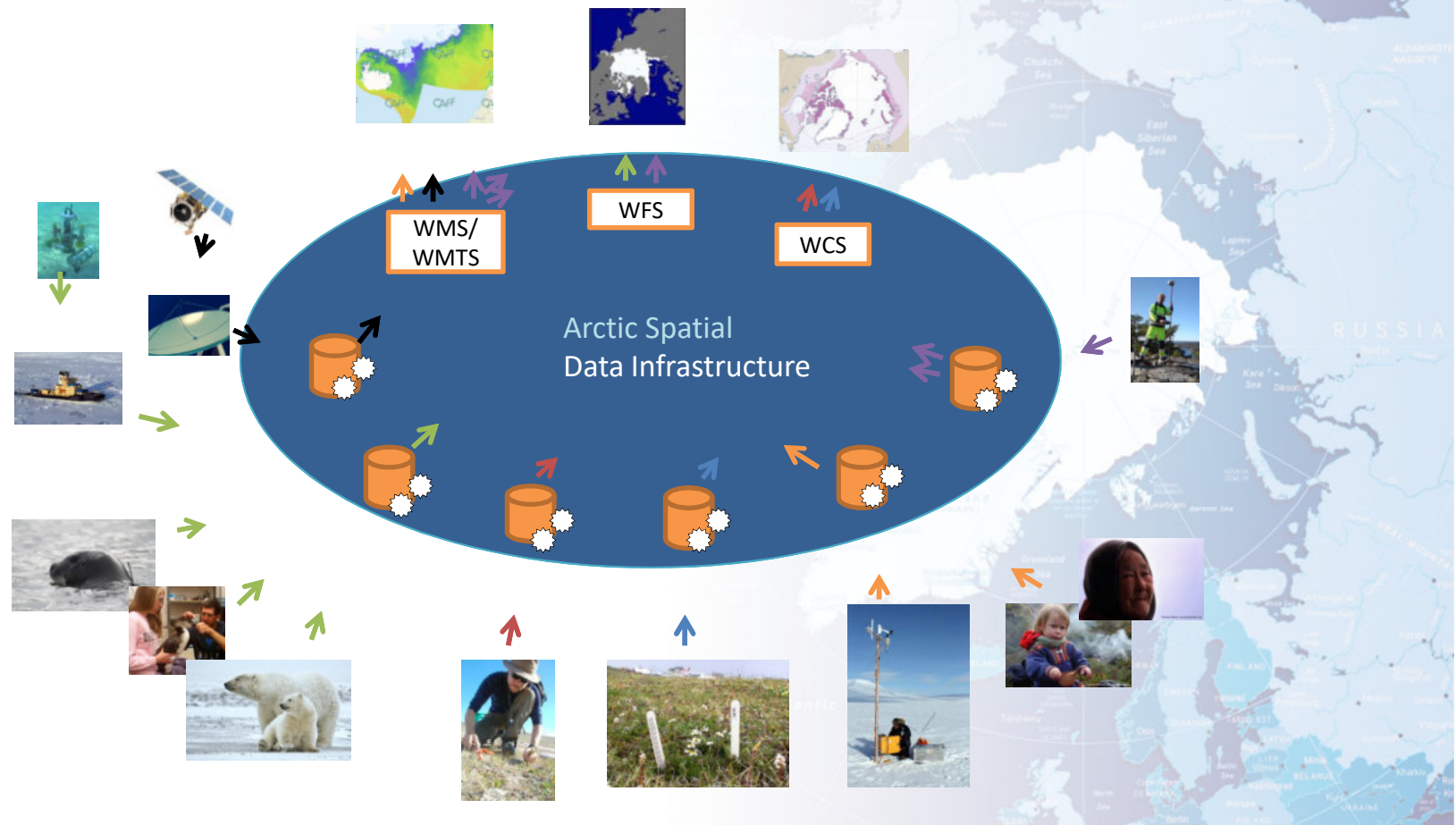
- Increase and broaden use of data from Arctic Mapping Agencies
  - ✓ Pan-arctic Topographic Basemap
  - ✓ Pan-arctic Place name service
- Driving force to the development of a Spatial Data Infrastructure for the Arctic



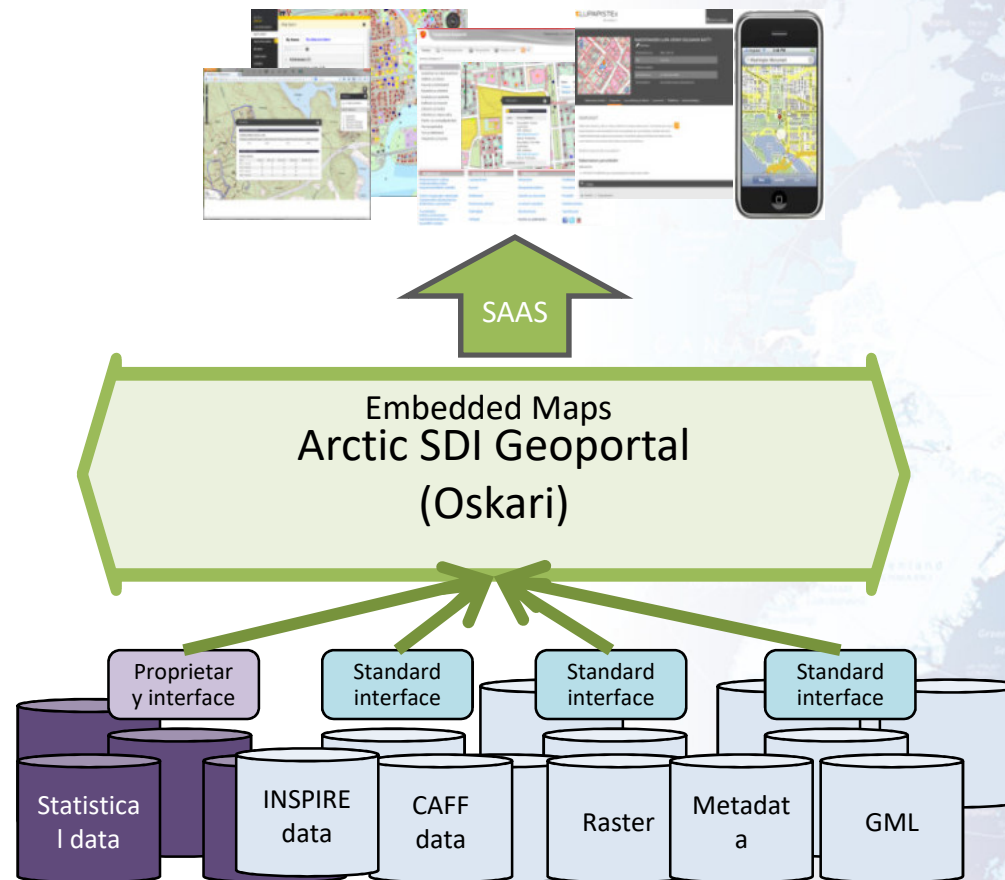
# SDI's - part of overall information infrastructure



# Data from distributed sources



## Software As A Service Hides the complexity

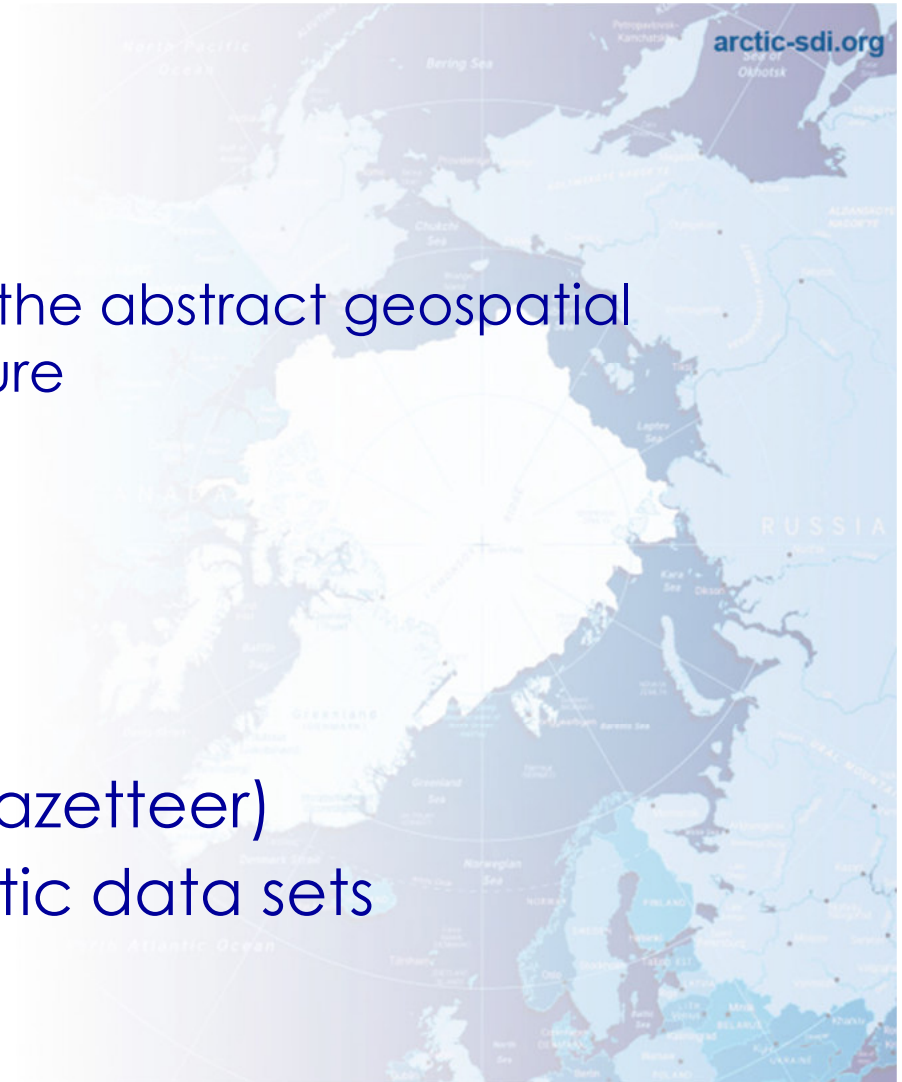




Geoportals - access point to the abstract geospatial data and services Infrastructure

## Basic Elements

- Basemaps
- Metadata Catalogue
- Placenames search (Gazetteer)
- Recommended thematic data sets



## User needs – Arctic Council WGs, 2015

- Digitalized data
- Easy access to data in general
- Easy access to specific data sets
- Data to be interoperable
- Guidance and tools





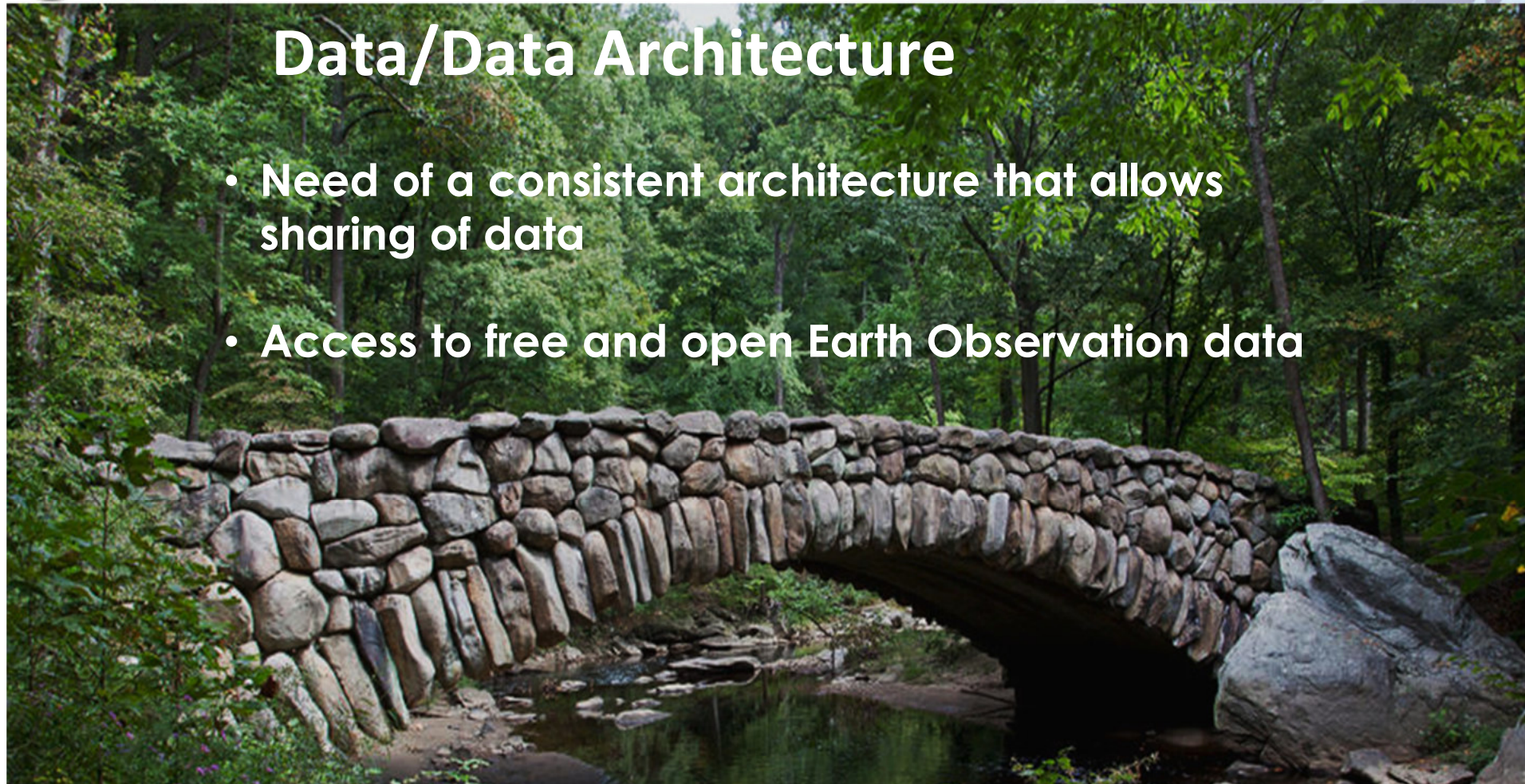
## User needs Assessment

- User needs assessment for the international Arctic Spatial Data Infrastructure
- Better access to geospatial data for Arctic marine areas – User Survey Report



# Data/Data Architecture

- Need of a consistent architecture that allows sharing of data
- Access to free and open Earth Observation data






# Geoportal to Geodata platform

- Investigate processing of data in the cloud - extend the Geoportal to Geodata platform
- Currently access to specialized knowledge are required to access and prepare raw satellite data
  - ***Investigate integration of the Open Data Cube and Analysis Ready Data (ARD) - lower the barrier of using BIG Data in individual applications***

## Standardization process

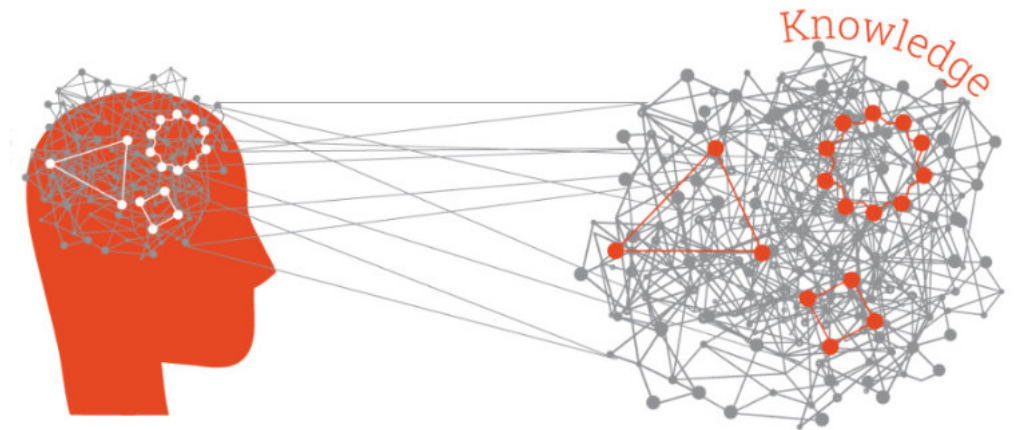


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- The ongoing technical development affects the standardization world, which however has a slower process
  - Constant monitoring on how standardization evolves is necessary



## Quality of Service

- Map Services disseminated through the Geoportal must always be available and stable
- Metadata for services must be of good quality



## Geoportal Requested new features

- Analysis and manipulation tools - consultation with users regarding their needs
- Tools for handling Earth Observation data seems to be a hot topic
- Possibilities to connect to social medias