# ARCTIC SDI
Arctic Spatial Data Infrastructure

# Arctic SDI Geoportal

- SEARCH FOR DATA
- ACCESS TO THE ARCTIC TOPOGRAPHIC BASEMAP AND THEMATIC DATA
- TOOLS TO CREATE AND PUBLISH NEW MAPS

## Search for data through Metadata
Machine Discovery Service API
- Build on GeoNetwork 2.6
- Standard Compliance OGC CSW API v/2.0.2 and ISO 19115/19139

## Search for locations through place names
Gazetteer Service
- Leveraging European Location Framework and adapted to Arctic needs using authoritative mapping agency data
- Standard Compliance: OGC Web Feature Service Gazetteer Application Profile (WFS-G)

## Map Layers
Map Layer selector
- Arctic Topographic Basemap Service – reference background map
- Arctic DEM (Digital Elevation Model) – Polar Geospatial Center, Minnesota
- Selected Thematic Data Sets (Biodiversity, meteorology …)
- Time Series Data Sets

## My Data
Access to user's
- Saved map views
- Previous map views
- Published maps

## Map Publishing
- Embedded maps
- Time Series

## Arctic SDI Topographic Basemap
Topographic Reference Background Map
- Based directly on data from the National Mapping Agencies of the 8 Arctic countries
- Deliver images to any client supporting OGC WMTS 1.0
- Available in six rotations of the North Pole Lambert Equal Area Projection

# ARCTIC SDI GEOPORTAL – GENERAL INFORMATION

Provides easy access to geospatial data and standardized services such as the Arctic SDI Topographic Basemap, the Gazetteer service and the Metadata Catalouge.

Facilitates the discovery, visualization, evaluation and dissemination of data from a variety of sources

Meets the growing demands from Arctic Council processes, public sector management, emergencies, science and private business for efficient geodata tools.

## Short facts about the Geoportal

- Operated by National Land Survey of Finland and hosted by the Norwegian Mapping Authority
- Based on Oskari open source software
- Can access content provided from OGC APIs: WMS 1.3.0, WMS-T (time series data), WMTS 1.0.0 (tile service), WFS 2.0 (GML 3.2)
- ESRI raster REST services are supported as source of data. Older versions of standards may also be used, but are not explicitly supported.
- Support for OGC WFS 3.0 and Vector Tile services are in the roadmap for Oskari software.
- Supports EPSG projections 3571 Bering Sea, 3572 Alaska, 3573 Canada, 3574 Atlantic, 3575 Europe, 3576 Russia
- Open for anyone to use under Terms of Use

Registered users can create embedded maps without any programming skills and combine map layers to visualize the phenomena of their choice and choose from a variety of tools to be added on the map.

The fully functional map client can be embedded on any website with context-related information by copy-pasting the map URL into the website content management system. If any data source gets updated, the latest data is readily shown on in the embedded map without user intervention.

## Find, view and analyze
## – exchange and share data
## – create your own maps



Arctic DEM – digital elevation model



Thematic data

## ARCTIC SDI
### Arctic Spatial Data Infrastructure

- Canada Centre for Mapping and Earth Observation, Natural Resources Canada
- Agency for Data Supply and Efficiency, Denmark
- National Land Survey of Finland
- National Land Survey of Iceland
- Norwegian Mapping Authority
- Federal Service for State Registration, Cadastre and Mapping of the Russian Federation
- Swedish Mapping, Cadastral and Land Registration Authority
- United States Geological Survey