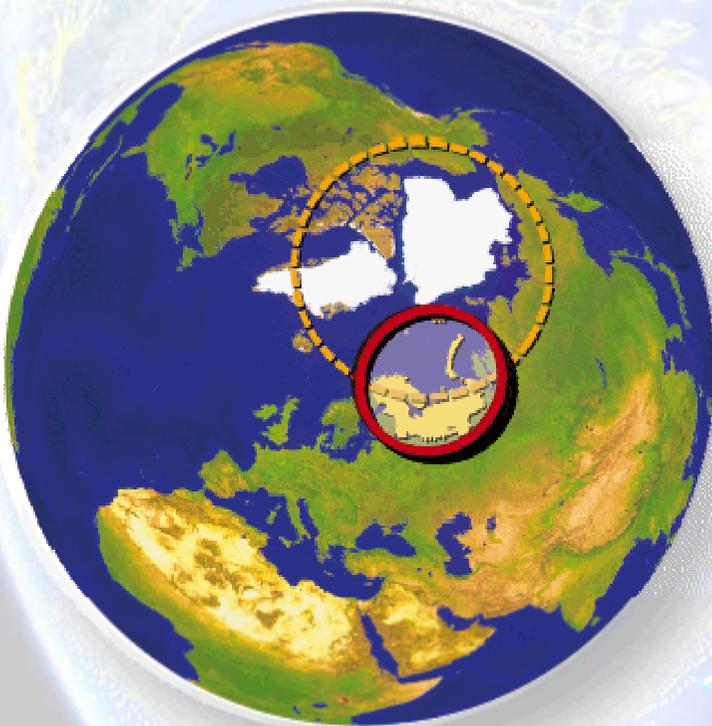


# SDI Principles

## Implemented in the Barents Euro Arctic Region

- Experience for use when building an Arctic SDI -



Owe Palmér, PhD Geography/*Senior Adviser*

LANTMÄTERIET



*Swedish mapping, cadastre and land registration authority*

**GIT**



**Barents**

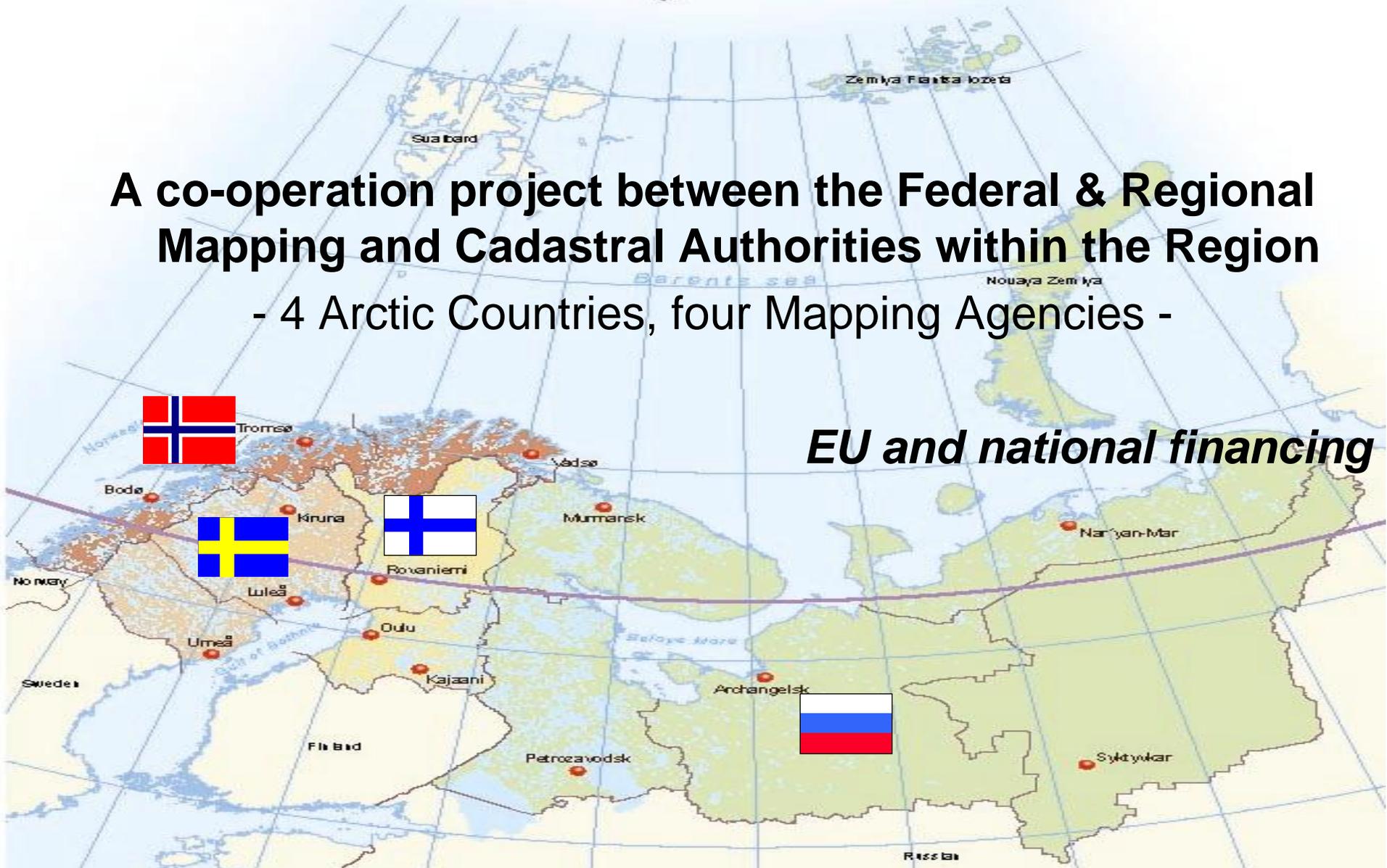
**Geographic Information Technology  
within the Barents Region**

**1998 – 2008**

# THE BARENTS EURO-ARCTIC REGION

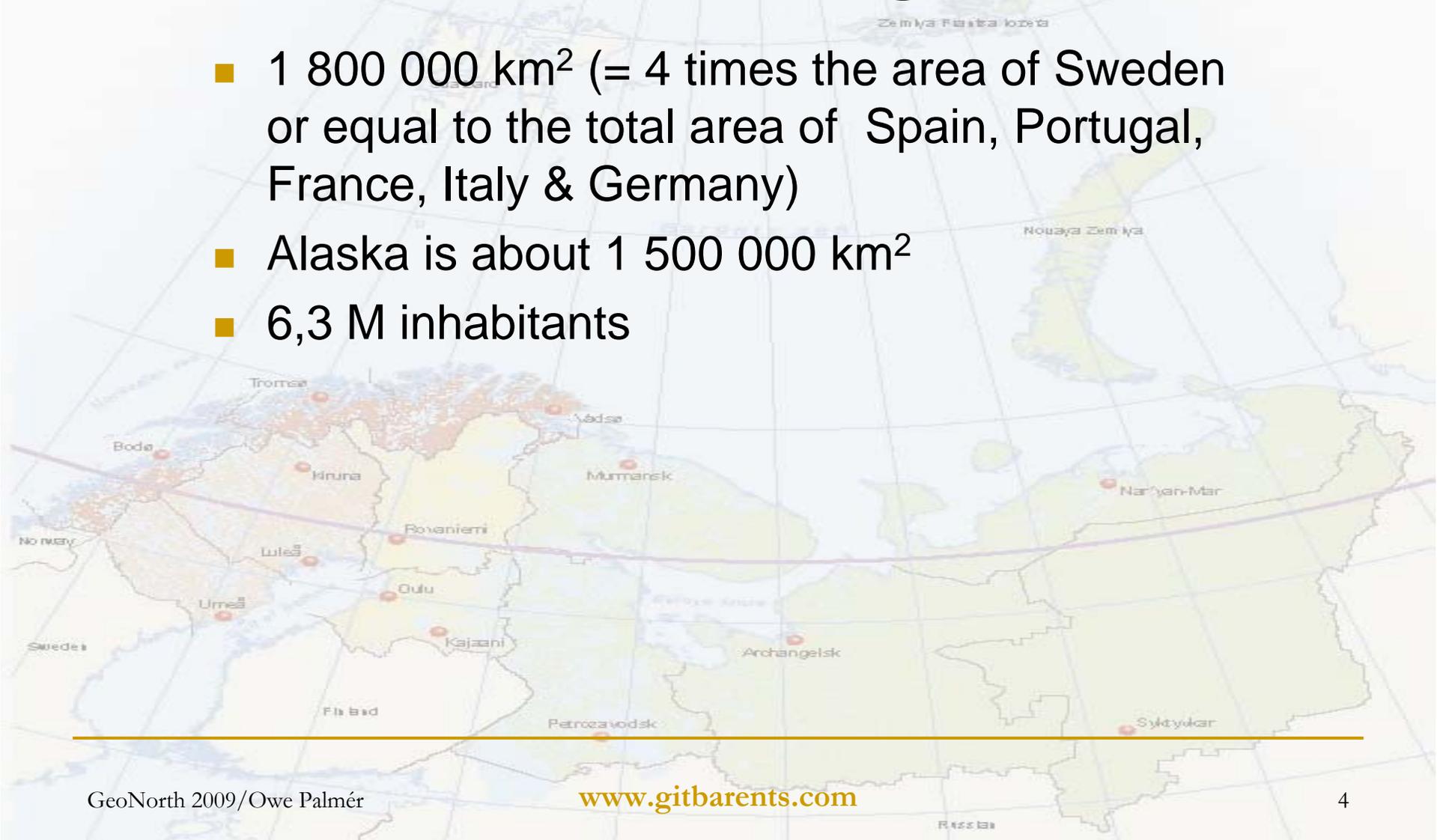
**A co-operation project between the Federal & Regional Mapping and Cadastral Authorities within the Region**  
- 4 Arctic Countries, four Mapping Agencies -

***EU and national financing***



# The Barents Region

- 1 800 000 km<sup>2</sup> (= 4 times the area of Sweden or equal to the total area of Spain, Portugal, France, Italy & Germany)
- Alaska is about 1 500 000 km<sup>2</sup>
- 6,3 M inhabitants



# Willem Barents



- 1550 - 1597
- **Cartographer**, seafarer and explorer
- Netherlands
- Met his fate returning from Novaja Zemlja
- The Barents Sea is called after W Barents

# The GIT Barents Project - short project history -

- Project idea 1993
- Project start 1998
- Successfully finalised 2008
- **It takes a long time to build a reliable and well functioning network**

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links

•Communication with EuroGeographics

# GIT Within the Barents Region

- main goals -

- Production of *homogenous & uniform geographic information* within the region
- development and implementation of internet-based technology for *effective access and distribution* of geographic information within the region

# The Barents GDB

## 1:1 000 000

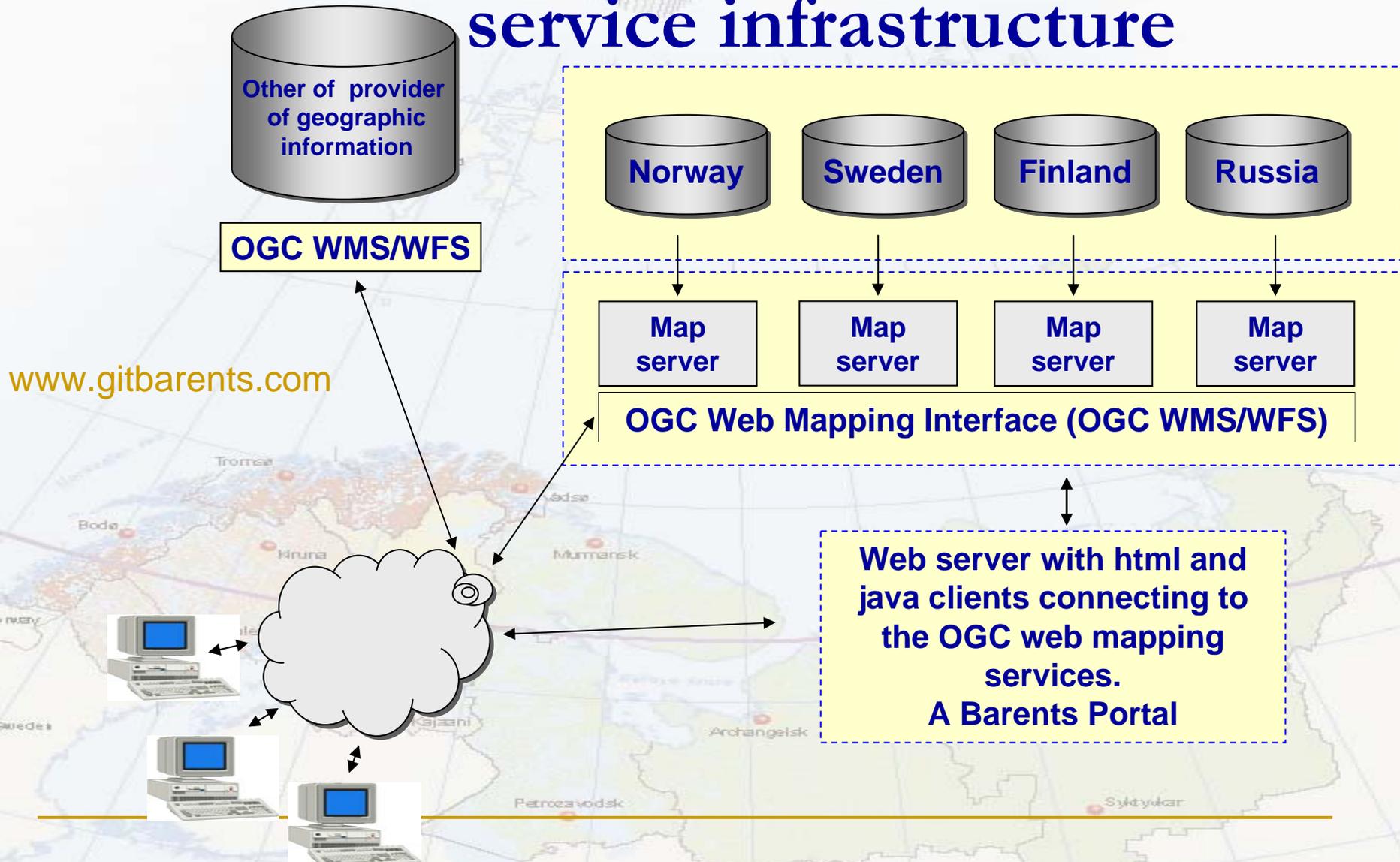
- **no new mapping** efforts have been executed
- existing national map databases have been used and compiled
- the new **database** is a **homogenous** geographic (GIS compatible) map database

# GIT Barents SDI

## – principles building the infrastructure –

- Harmonised with **European recommendations for INSPIRE**
- Based on **standards**, CEN, ISO & OGC
- **Legal agreement** according to the **INSPIRE Directive** and the **EU Directive** on Public Sector Information

# Web-mapping service infrastructure



# GIT Barents – main results

- The organisation/network 4 countries
  - A **legal agreement** (EU legislation) signed by the 4 partners
  - The internet based infrastructure – **Barents SDI**
  - Good conditions to extend
  - The Barents GDB (database)
  - Printed maps on demand
  - Access to national data
  - Access to thematic data
- [www.gitbarents.com](http://www.gitbarents.com)

# Legal Agreement on the Barents GDB concerning:

- Storage
- Maintenance
- Intellectual property rights
- Marketing and distribution policy
- Licensing to use of the Barents GDB and other derived products.

# **GIT Barents SDI**

## **– information activities –**

**Results of GIT Barents and ideas for the future are among others presented at/for:**

- **IPY GeoNorth** 2007 conference in Yellowknife
- **Arctic Council** work-shop in Oslo 2008
- **Swedish & Finnish DGs**, April 2008
- **Swedish Ministry of the Environment, Swedish AC Member** included, May 2008

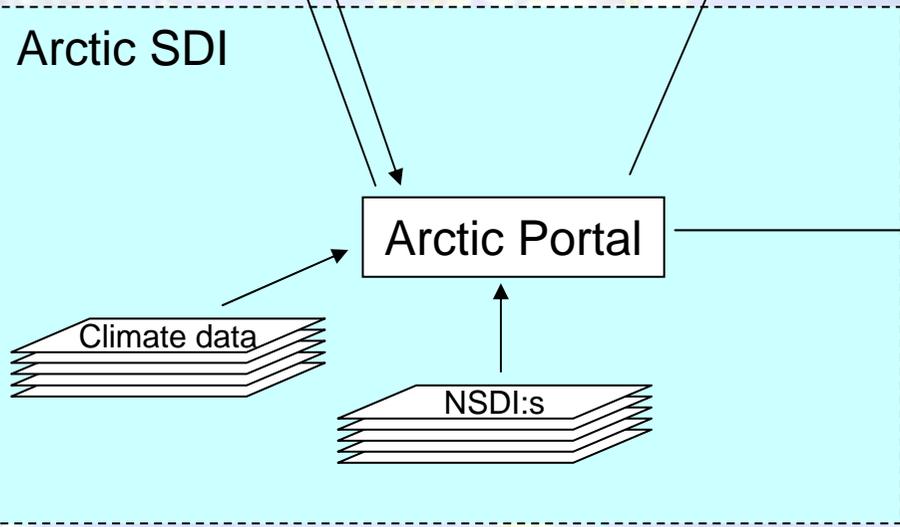
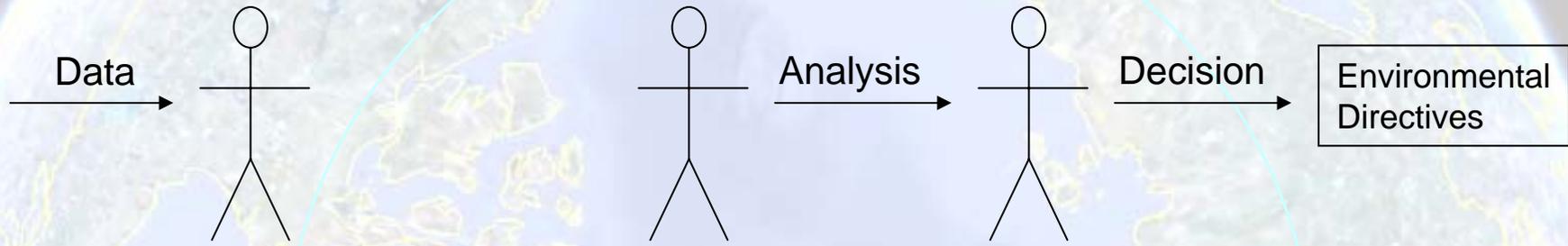
# GIT Barents – the homepage

- All project results and documentation are available on the GIT Barents homepage – <http://www.gitbarents.com/> :
  - ❑ Home
  - ❑ About
  - ❑ Contact
  - ❑ Interactive map
  - ❑ Products & Services
  - ❑ Arctic Circle
  - ❑ Links
  - ❑ Login

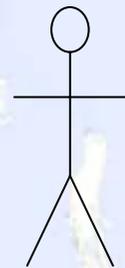
Scientific Community

Coordinating Authorities

Decision-making process



Media & Public



**The experiences gained during the 15 year long project might be utilized when building an Arctic SDI**

A satellite view of the Earth from a polar perspective, showing the Arctic region and surrounding continents. The text "THANK YOU!" is overlaid in yellow.

# THANK YOU!

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