



SIOS*

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Director, interim phase

*Svalbard Integrated Arctic Earth Observing System

What is SIOS

- A regional earth observing system for long term measurements in and around Svalbard
 - The aim is to gain new knowledge for improved understanding of the aspects of climate change in this region (and globally) – and how the **different processes** between the **different spheres** interact.
- Coordinate and develop existing and new infrastructure in Svalbard
 - Be an example for systematically research and development in the Arctic and how joint efforts provide **added value** to the user community.



Partners Interim Phase

- **International Partners Interim Phase**
- Alfred Wegener Institute (AWI, Germany)
- Consiglio Nazionale delle Recherche (CNR, Italy)
- Finish Meteorological Institute / Univ. of Helsinki (FIM/UH-Phys. Finland)
- Polar Research Institute of China (PRIC, China)
- British Antarctic Survey (BAS, UK)
- National Institute of Polar Research (NIPR, Japan)
- Institute Polaire Francais (IPEV, France)
- University of Stockholm (SU, Sweden)
- Institute of Geophysics, Polish Academy of Sciences (IGF-PAS, Poland)
- University Centre in Svalbard (UNIS, Norway).
- Norwegian Polar Institute (NPI, Norway)
- Norwegian Meteorological Institute (MET, Norway)
- Nansen Environmental and Remote Sensing Center (NERSC, Norway)

- **Near future Partners**
- Arctic, Antarctic Research Institute (AARI, Russia)
- Korea Polar Research Institute (KOPRI, Korea)
- The Czech Centre for Polar Ecology (CPE, The Czech Republic)



SIOS – the time line



SIOS- KC Interim project

- Starts now!
- Project hosted by UNIS
- Development of the services include all partners:
 - Data management – lead by Met.no
 - Open Access to RI – lead by NPI
 - Remote sensing data – supervised by NERSC
 - Training and outreach – lead by UNIS
 - Web-portal – lead by UNIS in cooperation with SSF
- Scientific work/issues will be facilitated and coordinated by the Set-up team



The Knowledge Centre

- Use the observations and knowledge to continuously **develop the core program**.
- Stimulate the **development of new observational techniques** that are clean, energy efficient and robust in the Arctic environment.
- **Provide an intellectual environment** where sampling strategies and observational practices are developed.
- **Be an international meeting place** for developing the science of long term environmental monitoring in Polar Regions.
- **Inform users and society** about the accrued knowledge within its field of expertise.
- **Prepare for the operational phase**



Plans



Svalbard Integrated Arctic Earth Observing System (SIOS)

D8.4 SIOS Interactive web portal

Final version September 29th 2014

SIOS-PP WPS and WPS

A combined delivery of
D8.4 Establishment of SIOS information point "Access to Svalbard" and
D8.4 Interactive web portal as an integrated element of the implementation of the
Knowledge Centre

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Svalbard Integrated Arctic Earth Observing System

D8.5 SIOS Educational Programme - first 2 years of operation

Version 10.04.2014

SIOS-PP WP8

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Earth Observing System (SIOS)

7.8 ion Plan for the nsing Service

November 4th 2014

PP WP7

nsing Strategy

Earth, Norwegian Space Centre
rgan Space Centre, Bo Andersen, Norwegian
ace Centre, Giovanni Macelloni, The National
Council of Italy

Received from the task leaders of TSP 7.

Datamanagement service

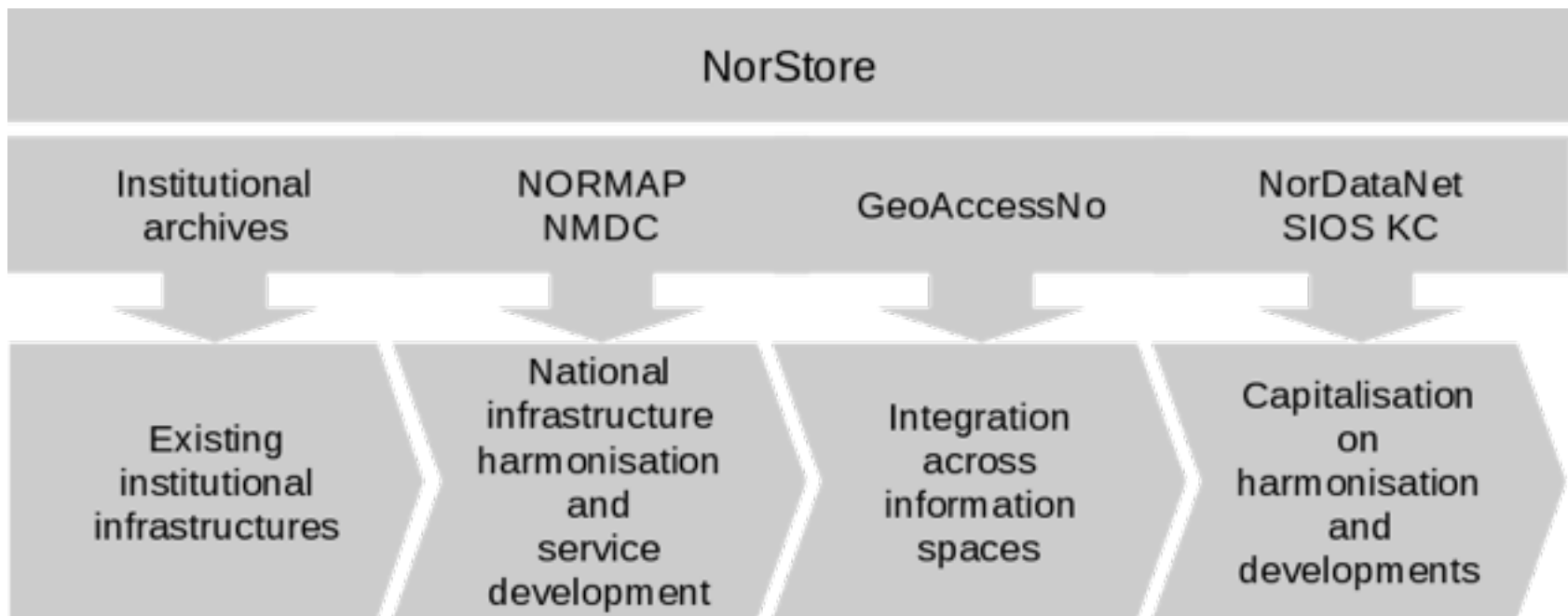


Goal:

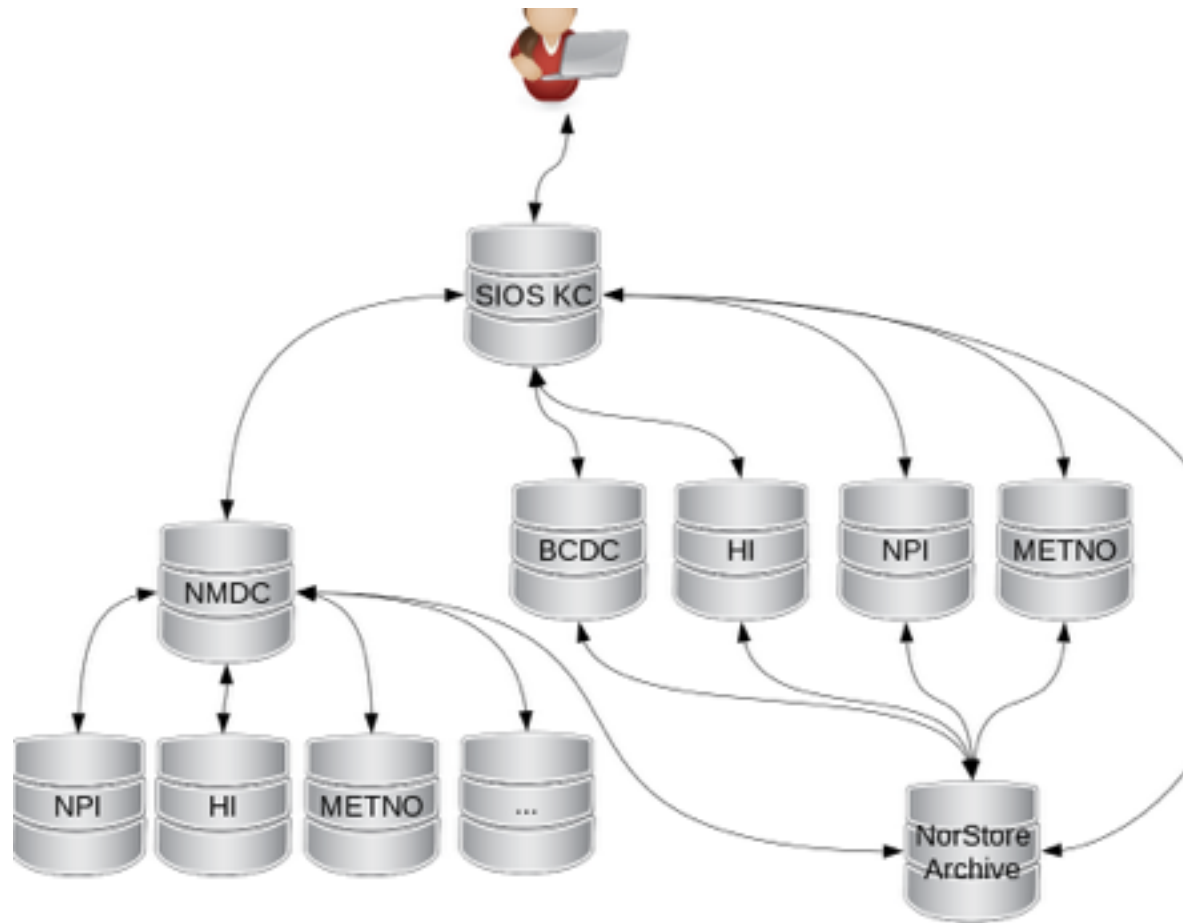
- achieve better and open access to data – including integration of remote sensing data and production of own data-products.



Datamanagement service



Datamanagement service



Access to research infrastructure



- Better and open access to research facilities and observation equipment based on a peer review

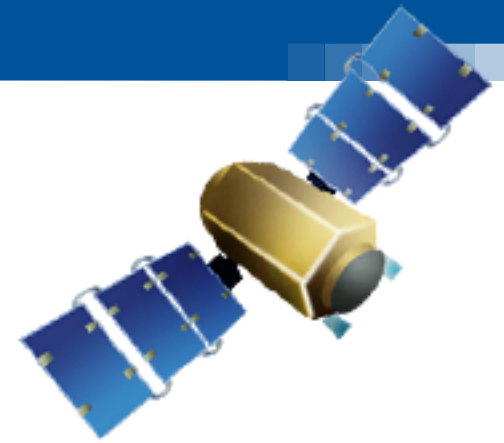


Infrastructure

- Ny-Ålesund
 - French-German Arctic Research Base (AWIPEV)
 - Sverdrup Station (Norwegian Polar Institute)
 - Dirigibile Italia Station (CNR)
 - Zeppelin Observatory (Norway, Sweden, USA, Greece)
 - Harland House, UK
 - Kings Bay Marine Laboratory
 - Japanese Station Ny-Ålesund
 - Arctic Dasan Station, S-Korea
 - Arctic Yellow River Station, PR China
- Longyearbyen
 - University Centre in Svalbard
 - EISCAT Svalbard Radar
 - Kjell-Henriksen Observatory
- Hornsund
 - Polish Polar Station
- Barentsburg
 - PGI Research Station
- Marine observation platforms



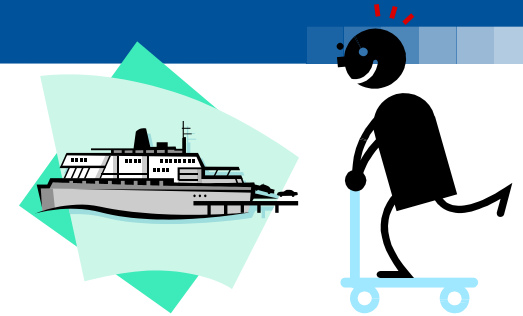
Remote sensing services



- Make remote sensing data available as a service
- Integrate remote sensing data with in-situ data and terrain models



Logistical services



- Integrated and better logistical resources
- overview of research sailing/expedition routes and field campaigns
- Access to office/internet etc. in LYB.



Training and outreach



- Tailor made courses in use of infrastructure and interpretation of data
- Outreach activities for scientists and public



Web-portal – the gate to SIOS

- One entrance – the place where all services are integrated and visualised
- booking possibilities
- applications
- general information on research in Svalbard etc.
- Take advantage of RIS and other info. from SSF



