

ARCTIC SDI BOARD MEETING MINUTES

Toronto, Canada 29 - 30 May 2018

Participants:

Board Members

Finland (Chair)

Arvo Kokkonen, Director General - National Land Survey of Finland

Canada

Prashant Shukle, Director General - Natural Resources Canada

Denmark

Kristian Møller, Director General - Danish Agency for Data Supply and Efficiency

Iceland

Magnús Guðmundsson, Director General - National Land Survey of Iceland

Norway

Anne Cathrine Frøstrup, Director General - Norwegian Mapping Authority

Russia

Viacheslav Spirenkov, Deputy Head - Federal Service for State Registration, Cadastre and Mapping

Sweden

Susanne Ås Sivborg, Director General - Swedish Mapping, Cadastre and Land Registration Authority

USA

Kevin Gallagher, Associate Director - U.S. Geological Survey

Guests

Dr. Kelly Falkner, National Science Foundation, USA

Paul Morin, Polar Geospatial Center, University of Minnesota, USA (virtual)

Co-opted

Andrey Mukhin, National Contact Point, Federal Service for State Registration, Cadastre and Mapping, Russia

Cameron Wilson, National Contact Point, Natural Resources Canada,

Heli Ursin, National Contact Point, Arctic SDI Secretariat Lead, National Land Survey of Finland

Jani Kylmäaho, Geoportal WG lead, National Land Survey of Finland

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1. National Mapping Agency “Hot Topics”

Each participant briefly presented their national “hot topics”. Discussions illuminated common issues between the countries:

- Developing a stronger voice within our respective governments and associated stakeholders on the value of Arctic SDI
- The development of a Pan-Arctic DEM illustrated efficiencies of collective data acquisition.
- National Atlas of Russia delivering thematic data based on extensive research
- Hot topics included a variety of opportunities to share best practices, including but not limited to: - Mapping technology and methods - Legal framework and long-term vision - Governance - Geodesy - The management of limited resources - Open Data - Security - The role of mapping and data in producing value and efficiency - The role of government in mapping - Responsibility to first Nations - Education (from policy makers to the public and next generation of technical professionals)
- National governments are interested in what we are doing

2. Approval of the agenda.

The agenda was approved.

3. Arctic SDI Chairmanship report

Arvo Kokkonen introduced the Chairmanship report. Climate change and sustainable development form the broad frameworks for the Finnish Arctic Council Chairmanship program. Executive Board (currently USA, Finland, Iceland) meeting is seen as very important meeting to keep track of progress and plan for future activities.

Highlights:

- Arctic SDI was presented to Arctic Council Working Group Chairs and Executive Secretaries in the SAO Executive & Plenary meeting in October 2017 in Oulu, Finland
- Cooperation with the Arctic Regional Marine Spatial Data Infrastructure Data Working Group (ARMSDIWG) of International Hydrographic Organization and agreement on key principles to support development of a joint framework for the transparent collaboration with the Arctic Regional Hydrographic Commission Marine SDI Working Group (ARMSDIWG)
- Outreach to UN-GGIM: Arctic SDI Presentation in UN-GGIM High Level Forum in Mexico, November 2017. Arctic SDI has been given opportunity to organize a side event during the United Nations Global Geospatial Information Management at UN Headquarters in New York

- The Arctic SDI Topographic Basemap has been updated with harmonized cartography
- Significant improvements to the Geoportal and its infrastructure, tools and services, and the development of technical fact sheets for users
- An Arctic SDI Data Working Group has been formed under the Technical Working Group
- Documentation of the basic Operational Setup requirements for the Arctic SDI organization, the Geoportal and NMA infrastructure and services
- Updated Arctic SDI website, including publishing key Arctic SDI documents

4. Strategic Activities

4.1 Arctic SDI status 2017/2018 and recommendations for 2018/2019

Arctic SDI Geoportal: presentation of current status (DEMO)

Jani Kylmäaho gave a presentation that highlighted the new Topographic Basemap, Pan-Arctic Gazetteer service, temporal data display and animation, embedded maps and the Pan-Arctic DEM along with other external data resources.

4.1.1 Arctic SDI Operational Set Up was presented for approval

- Infrastructure and operations
- Business processes
- Communication and outreach

4.1.2 Executive Summary on Prioritized Activities was presented for approval

- Prioritized Activities Spreadsheet
- Illustration of Prioritized Activities
- Reports from the Prioritized Activities:
 - NMA (National Mapping Agency) services
 - External Data
 - Geoportal
 - Communication and Outreach
 - Business Processes

In accordance with the Strategic Plan, the Board wishes to emphasize the importance of value-creation, communication and engagement with stakeholders to achieve the vision of supporting science, national security, first Nations people, economic development and emergency response in the Arctic through the Arctic Spatial Data Infrastructure.

Consistent with the Strategy, the board wishes to see targeted actions, within the year, that

identify and engage key stakeholders, partners, and working groups that can benefit from the Geoportal in effort to ensure value-creation.

Specific efforts should include:

- 1. Leveraging the **Geoportal** to address the data access and visualization needs of other stakeholders, partners and working groups,
- 2. Leveraging **data sets** within the Geoportal to achieve the goals of stakeholders, partners and working groups, and
- 3. Identifying **new data from domains of Arctic Council, hydrology, meteorology** that can be added to the Geoportal.

This engagement should go beyond basic communication and demos to include specific work products, work flows, agreements and/or MoUs that ensure value-creation.

DECISION: NCP's shall continue to implement the strategic Plan in 2018/2019.

DECISION: The strategy should be renewed during 2019-2020.

DECISION: Engagement with stakeholder organizations is important to ensure value-creation.

DECISION: Also important to use the professional communications and stakeholder engagement competencies of the National Mapping Agencies.

DECISION: Consider translating the Geoportal into national languages.

DECISION: The Board approved activities that were done last year, the Prioritized Strategic Activities for 2018/2019 and the Operational Set Up as proposed.

ACTION: Utilize high level forums (e.g. Arctic Science Ministerial, Arctic Council, UN) to position Arctic SDI as a core geospatial data platform for circumpolar collaboration initiatives (e.g. DEM).

4.2 Pan-Arctic DEM

Discussion with Dr. Kelly Falkner, National Science Foundation and Paul Morin, Polar Geospatial Center. Paul Morin presented the status of Arctic DEM, with a next release anticipated for September. Antarctic area DEM will also be released in a month or two.

Kelly Falkner stated that there is need for further collaboration to create Arctic DEM products that meet needs of various use cases.

DECISION: Board approves that a Pan-Arctic DEM Workshop III can be held when the first DEM has been evaluated by the NMAs and more information is available, potentially during latter part of 2018. Workshop may also include coverage of the technology that was used to create the DEM and lessons learned. Workshop should engage critical science communities to increase use, value, of DEM to meet specific needs (e.g. disaster, climate change, etc.)

4.3 Memorandum of Understanding, renewal process

Request to the Board was to extend the MoU unchanged and to schedule signing of the extension document at the 2019 Board meeting. The MoU Extension document should no longer have an expiration date, as there is a possibility to withdraw from the collaboration following a 3-month notice. Potentially extension of the MoU could be used for raising Arctic SDI visibility.

DECISION: it was agreed to formalize the extension by signing an MoU Extension Document at the 2019 Arctic SDI Board Meeting.

DECISION: the document shall be made available for signing in French, English and Russian.

4.4 Board Chairmanship transition process in 2019

Heli Ursin presented the proposed changes to the Governance document page 8 concerning Rotation of the Board Chairmanship: *“Incoming Chair of the Board will appoint the Lead Secretariat from the incoming Chairing organization (one year before the Chairmanship transition). The outgoing Lead Secretariat will participate in the Board meeting during the transition process.”*

DECISION: Governance document with changes were approved.

4.5 Working Group Lead and membership 2018/2019

- Update on WG memberships
- Discussion on status of the Strategy WG: Leadership and tasks

Heli Ursin presented the current Working Groups and the national members in the groups. Generally membership clear, but the Chair of the Strategy Working Group has not been able to chair the group due to other obligations. During the absence of the Chair the NCPs have had to lead the Strategy activities.

DECISION: Merge existing Communication and Strategy Working Groups into one Strategy, Communication and Value Creation Working Group. Chair will be lead country as per governance.

4.6 Key Performance Indicators report

The evaluation framework has been simplified into nine Key Performance Indicators, which are recommended for Board approval

The KPIs were presented and agreed to. Subsequent discussion indicated that some of the indicators (i.e. #2, 4, 5) focus on outputs or service indicators as opposed to outcomes. KPIs should be measurements of outcome, which one cannot control self. Access, dissemination and

quality indicators are present. Target indicators are missing. How does number of reference dataset correspond with UN-GGIM indicators or needs of the Arctic use cases? Policy outcome indicators are needed. Baseline datasets and users quality experience measurement

DECISION: KPIs agreed to as presented.

ACTION: Operational Policies shall continue to evolve KPIs with an eye towards outcome based measurements.

4.7 Calendar of events

DECISION: Approved, with additions of the following:

- CoastGIS 27.9. - 29.9. in Iceland, Magnus Gudmundsson to give presentation
- International forum 'Arctic: Today and the Future' in St. Petersburg, December 2018

ACTION: Arctic SDI should look for events where the users are represented, not just geospatial events.

4.8 Preparation for Arctic SDI Side event during UN-GGIM

Side event on Arctic SDI on July 31st at 14:00 pm to 16:00 pm. Heli Ursin presented the general agenda for Board comments and decision. Participants from Arctic SDI in the general UN-GGIM event will be USA, Canada, Iceland, Finland, Denmark, Norway and Russia (Ministry of economic development),

DECISION: Pan-Arctic DEM should be presented as part of the cooperation through the geoportal demo, not as separate agenda item.

DECISION: SDGs should not be a topic, but written as Agenda 2030

DECISION: Agenda 2030 should be in the start of the Side event agenda

DECISION: NCPs to update the Concept note

DECISION: Kevin Gallagher to Chair the Side event

4.9. Arctic Regional Marine SDI

Cooperation with Arctic Marine Spatial Data Infrastructure Data Working Group (ARMSDIWG) of IHO

Marine and Land domains collaboration in the Arctic area is important. Excellent example of value creation to have marine build upon Arctic SDI methods, tools and the Geoportal. High degree of support from the Board.

DECISION: The Board endorses the continued collaboration and a joint statement of activities with ARMSDIWG.

ACTION: Development of joint concept paper on the collaboration for future decision by the Board.

Marine Spatial Management Tool (Anne Cathrine Frøstrup)

Shows what is going on with regard to plans, regulations, statistics, actions and political decisions in the marine domain. Demonstrates reuse (value) of geospatial standards and data to combine data from different countries. Spatial management via interoperability / standards is the smart way to knowledge. The driver to the initiative was based on an open data strategy and how to have silos talking horizontally. There was a UN-GGIM resolution to combine marine and land (validate this statement). Comments were made that the underwater domain is complex with many actors. Keep the focus on data opportunities as they arise and not become overwhelmed with hydrographic complexity.

5. Financial resources, including external financial resources for Arctic SDI (discussion)

Following was discussed:

- The eight national mapping agencies agree to uphold European (INSPIRE) and other Spatial Data Infrastructure principles such as “build once use many times” to leverage, share and pool resources, data and infrastructure, where possible.
- By co-investing in the establishment of the Arctic SDI, the National Mapping Agencies have demonstrated their willingness, ability and commitment to the future of the Arctic SDI.
- In order to have a constructive dialogue with users and stakeholders, it will be necessary for the National Mapping Agencies to further define their roles and responsibilities in the Arctic SDI (Objective 5).
- The Arctic SDI is a long-term investment with ongoing improvements and enhancements.

ACTION: Document service levels that Arctic SDI agree to provide (SLA/disclaimer)

6. Any other business

The Board wishes to thank all members of Arctic SDI for their contributions.

7. Confirmation of next Board Meeting - time and location

Reykjavik, Iceland on May 22-23, 2019.

8. Closing and Adjourn the meeting

Minutes were agreed upon in the end of the meeting, making the 45 days confirmation time not necessary.