Company profile – 07.2019

The Arctic and Northern Gateway

Communication, outreach, consulting, planning and data services.

Key to increased knowledge, sustainable development, cooperation, adaptability and resilience.

WWW.ARCTICPORTAL.ORG
The Arctic Portal Today – Who We Are

✓ The gateway to Arctic and Northern information and data.
✓ Leader in Arctic consulting, outreach and data management.
✓ Welcomed in the Arctic Council Ministerial Declaration in 2006.
✓ Well-educated staff with diverse nationalities and experiences.
✓ State-of-the-art in-house information, data and mapping systems.
✓ Partners in multiple leading international forums.
✓ Partners in 20+ international projects of global relevance.
✓ Supporting and hosting over 60 leading Arctic and Northern websites.

Arctic Portal Objectives:
Leader in science communication, outreach and stakeholder engagement, provider of quality data and data services, consultant on strategy, planning and policy in and on the Arctic and Northern regions, to the private and public sectors in a global context.
Arctic Portal is looking for sponsors, strategic investors and partners to support its objectives and vision in the following development stages.

1st. Strengthening its current role in information and data servicing, science communication, stakeholder engagement and consulting.

2nd. Global Data servicing and Arctic Consulting, development of tools and services and establishment of servicing nodes e.g. in Asia, Russia, USA, EU-Brussels.

3rd. Establishment of a Data Centre and Data servicing platform.

**Investment Pay Back** - through revenue from service fees, projects and by access to strategic know-how, information and data, networks and contacts.
Halldor Johannsson, the executive director of the Arctic Portal, has long and vast Arctic and international experience not least in cooperation, communication and outreach, policy, planning and data management.

Attended, presented and chaired at numerous international meetings, seminars and conferences on Arctic and Northern issues including Shipping, Policy and Business.

Member of Arctic committees as the European Polar Board Excom - EPB, Sustaining Arctic Observing Networks - SAON, the Arctic Data Committee, International Permafrost Association council, the Uarctic council and Arctic Observatory.

Co-leading communication in the EU Arctic Project Cluster and in a leading role the Horizon2020 Applicate, Arice, Nunataryuk, Interact and Edu-Arctic; Arctic Council´s AREA and AES, Arctic Statistics with KMI in Korea and the Arctic Business Directory with the Northern Forum.

Instrumental in the establishment of the China-Iceland Arctic Observatory.

Decades of experience in design and urban and regional planning, including tourism infrastructure, urban and regional planning. An example of infrastructure to be credit to his forward thinking is the Finnafjord Project.
Why Are We Concerned and Interested?

✓ Interest and awareness about the Arctic and its global importance economically, environmentally and strategically is rising.

✓ Our Climate and consequently our Environment is undergoing change.

✓ Need for knowledge-based and responsible development, for the benefit of the regions Indigenous and local people.

✓ The Arctic is estimated to hold as much as 30% of the world’s unused resources.

✓ Shipping is increasing rapidly in the region. Year-round Trans-Arctic shipping is a real possibility in the very near future.

✓ Tourism is increasing rapidly.

✓ The Arctic and the North - An area of opportunities and threats!
The Need For Information and Data Services

✓ New regulations and forums have been and are being implemented, such as the IMO Polar Code, in order to regulate shipping in the Arctic to increase safety and reduce the risks of environmental disasters.

✓ The Arctic Council has made three binding agreements on search and rescue, oil spill response and science cooperation.

✓ The science ministers of the Arctic countries and observing countries, met in Washington September 2016 and again in Berlin October 2018 to discuss the need of better observations and access to data services. Third meeting to be held in Japan, co-lead by Iceland, in 2020.

✓ Recognition of the need of sound data services to increase knowledge and support policy and responsible development is rapidly increasing.

✓ Arctic Portal is a partner in most of the current relevant data and knowledge projects in the Arctic region, make its success very realistic.
Asian countries and the Arctic

Why is there is increasing interest in the Arctic region from Asia:

✓ Development of the **resources** in the Arctic region.
✓ **New shipping routes** and potential savings in time and fuel.
✓ **Security** – alternative route to current transport routes.
✓ **Climate change** – consequences of changing weather patterns and sea level rise to the population of Asia and the Globe.
AP is one of the most-established organizations in carrying out Arctic-related outreach and communication.

AP is strongly involved in organizing and providing communication on Arctic issues. We provide services and support to over 60 international organizations, institutions and projects of high Arctic relevance.

AP is actively involved in stakeholder engagement and impact at local, regional and international levels.
Arctic Portal is participating in international cooperation on data management, metadata and data search and actively developing tools and service protocols, providing dedicated data and data interpretation customer services.

**Arctic Portal has expertise in:**

- Data collecting, processing and storage,
- Statistics,
- Online data visualization.

Active member of consortiums as: Sustaining Arctic Observation Networks - SAON, Arctic Data Com., European Polar Board - EPB and EU Polar Project Cluster.
Arctic Portal - Data projects – Decades of experience


✓ Arctic Renewable Energy Atlas (AREA) - best practices and local adaptation actions in the Arctic – Arctic Council SDWG project – [http://arcticrenewableenergy.org](http://arcticrenewableenergy.org) Leading Outreach, Data management and Data visualization

✓ PPR – Arctic Council EPPR project – Leading data management and visualization
Arctic Portal - State of the Art Mapping System

Developed for the Arctic region, applicable and scalable worldwide

✓ Over 500 data layers + information
✓ Different projections
✓ 2D and 3D rotatable globe
AP has developed a state-of-the-art 2D and 3D mapping and data management and servicing system based on its long experience and knowledge. The system can be adapted to multiple user preferences and needs. It can be viewed at:

www.teikn.is/asi/2d.html  -  www.teikn.is/asi/3d.html
AP can provide the following data services:

1) Data collection,
2) Format conversion,
3) Statistical processing,
4) Temporal and spatial redistribution plotting.

Data services can be presented as:

1) As statistics, analysis and policy reports;
2) Through online mapping system with layers of client's choice and integration and interactive comparison options;
3) Animations;
4) “Tailor-made” Data packages.
AP can provide extensive data and services for the following categories:

1) Arctic general statistics,
2) Arctic environment and ecosystem, (including weather, tidal and sea ice)
3) Arctic indigenous people,
4) Arctic resources and energy, including renewable,
5) Arctic infrastructure, (including airports and harbors),
6) Arctic Business and Arctic Policies
7) Arctic science, observations and projects,
8) Arctic knowledge and culture.
✓ ARICE: Arctic Research Icebreaker
Consortium: A strategy for meeting the needs for marine based research in the Arctic – Horizon 2020 - www.arice.eu
Leading Outreach and Data management

ARICE - EU Horizon 2020
Knowledge - infrastructure
Duration: 01/2018 - 12/2021
EU contribution: €6M
www.arice.eu
Grant agreement no. 730965

ARICE is an international consortium that works towards making the ice-covered Arctic Ocean accessible to excellent science

✓ NUNATARYUK – Horizon 2020
Permafrost and socio/economic impact – www.nunataryuk.org


✓ Arctic Energy Summit – next conference in Iceland 2020 – Co-lead.

✓ Arctic Observatory – Iceland-China partnership – Lead partner in Outreach.

✓ Arctic Observatory - Science Communication – Project under development with Icelandic Centre for Research (RANNIS) and the Polar Research Institute of China (PRIC).


✓ Pro-Active Diving – Diving with a purpose – Citizen Science – under development – Project leader.

✓ EEAS - EU Policy Assessment – Associate partner with U Lapland and AWI.

✓ Arctic Statistics – Korea Maritime Institute, (KMI) Korea – Co-lead.

✓ EU Polar Cluster – Active partner – co-leading the communication working group.
Stakeholders with project partners during the assembly in Barcelona in January 2018!

- Increased knowledge within the project and about the project.
- Helping define project research priorities and their relevance to stakeholders list of user-relevant variables and matrices.
- www.applicate.eu

Leading Outreach and Stakeholder Engagement
EU – ARCTIC / POLAR CLUSTER

- Lead by EU-PolarNet in cooperation with EPB
- Including EU Arctic and Antarctic funded projects
- Focusing on:
  - Data Management
  - Communication and Outreach
    Lead: Halldór Jóhannsson, AP
  - User Engagement
  - Education and Training

www.eu-arcticcluster.eu
EU ARCTIC PROJECT CLUSTER

**EU-PolarNet**
Coordination action
Duration: 03/2015-02/2020
EU contribution: €2.2M

**APPLICATE**
Modelling - forecasting
Duration: 11/2016-10/2020
EU contribution: €8M

**INTAROS**
Observing systems
Duration: 12/2016-11/2021
EU contribution: €15M

**NUNATARYUK**
Permafrost & social impact
Duration: 11/2017-10/2022
EU contribution: €11.5M

**INTERACT**
Research networking
Duration: 10/2016-09/2020
EU contribution: €10M

**ARICE**
Knowledge - infrastructure
Duration: 01/2018-12/2021
EU contribution: €6M

**ARCSAR**
Coordination & Support Action
Duration: 09/2018-08/2023
EU contribution: €3.5M

**Blue-Action**
Modelling - forecasting
Duration: 12/2016-02/2021
EU contribution: €7.5M

**ICE-ARC**
Observations - forecasting
Duration: 01/2014-12/2017
EU contribution: €8.9M

**iCUPE**
Observation & modelling
Duration: 09/2017-06/2020
EU contribution: €2.5M

**KEPLER**
Coordination Action
Duration: 01/2019-03/2021
EU contribution: €2.9M

---

The EU Arctic Cluster projects have received funding from the European Union’s Horizon 2020 research and innovation programme or the European Union’s Framework 7 Programme respectively. Please visit our website for the specific grant numbers.

---

**AP Member**
**AP Advisory board**
**Excom member**
The Gateway to Arctic and Northern Information and Data

- Free access to information
- Information sharing
- Educational material
- Arctic News,
- Events Calendar,
- Multimedia Library,
- Interactive Mapping,
- Advance Search,
- Live Events,
- Arctic Data, Publications,
- and much more!

- **English** as the language of information
- **Russian** and **Chinese** interfaces under development

Turning information and data into permanent knowledge
Arctic Portal in Social Media

Twitter > 6,000 followers

Facebook > 2,000 followers

We make Arctic and Northern news and information accessible
We consult, design and ensure professional and reliable web presence of over 60 large international associations and projects of high relevance to the Arctic and the North.
Arctic Portal – Web Development and Services

✓ Arctic Research Icebreaker Consortium (ARICE),
✓ Nunataryuk,
✓ Advanced Prediction in Polar Regions and Beyond (APPLICATE),
✓ Arctic Business Directory (ABD),
✓ Association of Polar Early Career Scientists (APECS),
✓ Sustaining Arctic Observing Networks (SAON),
✓ Global Terrestrial Network on Permafrost (GTN-P),
✓ Arctic Maritime and Aviation Transportation Infrastructure (AMATII),
✓ International Arctic Science Committee (IASC),
✓ International Arctic Social Sciences Association (IASSA),
✓ International Centre of Reindeer Husbandry (ICR),
✓ International Permafrost Association (IPA),
✓ Icelandic – Arctic Cooperation Network,
✓ EU Arctic Information Centre,
✓ Arctic Data Committee (ADC),
✓ Arctic Yearbook,
✓ Arctic Renewable Energy Atlas (AREA),
✓ Permafrost Young Researchers Network (PYRN),
✓ The Pacific Arctic Group (PAG),
✓ and many more ...

Specialists in outreach and communication services:
Hosting, designing, maintaining and consulting
THE CIAO

The CIAO is established under an agreement between the Icelandic Centre for Research (RANNIS) and the Polar Research Institute of China (PRIC). The cooperation involves comprehensive studies and outreach, operates scientific and logistic infrastructures and promotes international cooperation in the polar regions.

At the Opening of the China-Iceland Arctic Observatory - CIAO in October 2018.

The cooperation

The aim of this cooperation is to further scientific cooperation between Icelandic and Chinese scientists and to advance knowledge in multiple fields of Arctic science. Participation by scientists from other nations is encouraged.

The Arctic Observatory is governed by a joint organizational and management committee, the CIAO board, with the support of an International Scientific and Outreach committee. The scientific emphasis will be on understanding the interrelations between the ocean, atmosphere, cryosphere and climate, polar biology, and related fields of science.

Special emphasis will be on outreach to the public. The CIAO will be a focal point for the promotion of education, awareness, and cooperation in the region.

Research partners

Institute: The Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences.

China: PRIC, CAS.

Iceland: RANNIS, Icelandic Centre for Research (ICR).

Observatory partners: The University of Iceland, The University of Akureyri.

Ongoing cooperation activities:

- Joint projects and research initiatives
- Joint training and exchange programs
- Joint publications and presentations
- Joint conferences and workshops
- Joint scientific studies and observations

Co-leading the China-Iceland Arctic Observatory (CIAO) in cooperation with the Icelandic Centre for Research (RANNIS) - from 2011 to date, including the initial introduction, project and site planning, negotiations and agreements, design, project execution and outreach.

www.ciao.is
Vast experience in creating, designing and promoting science communication and outreach material for education, tourism and public outreach.

A guest centre for the public being designed and developed at the CIAO station.

Examples:

CIAO science - Permafrost
A member of the University of the Arctic.

A consortium member in the Edu-Arctic project that encourages and supports teachers and students in engaging in STEM education through Arctic research.

Experienced in distance learning activities and on-line courses - Edu-Arctic, UArcitic, APECS, International Centre for Reindeer Husbandry and more.
The Arctic Business Directory ABD

- Advancing responsible resource, infrastructure and economic development.

- Identify competitive advantages within the Northern / Arctic region.

- Compile a business directory and develop relevant tools that help to advance business development in the region.

- Highlight areas of expertise held by northern small and medium enterprises.

- Strengthen Northern cooperation through the Northern Forum in Northern, Arctic and Global development and policy shaping!

- Funding from Northern Forum confirmed, project officially started as of 1 June 2019.
Arctic Portal is working with Korea Maritime Institute (KMI) on Arctic Statistics, collecting and producing statistical information for policymakers and the public to enhance their knowledge and understanding on the Arctic region.

Signing the formal agreement on the project with KMI president during the opening ceremony of the Korea Arctic Week, Arctic Policy and Innovation Forum, 2018.

Mentoring in the Korea Arctic Academy to a group of over 30 international students in Busan 2017.
Decades of experience in tourism and cultural planning and design.

Consultants to the Public Road adm, the Tourism Board, the National Museum and more in planning and designing a complete network of informational signs, online information and tourism areas all over Iceland.

Experts in Tourism Planning and Design - Complete network of signs and restareas in Iceland
Certified Planners since 1985. Planners, designers and project developers in multiple infrastructure, urban and regional projects including roads, parks, towns and harbours. Planner, designer and initiators of key projects as the Finnafjord harbour project and the China-Iceland Arctic Observatory.

Experts in Project, Urban and Regional Planning and Design – Finnafjord Port, Eastern Iceland
Science Communication, Culture and Art!

Support to and Collaboration with International Artists, communicating and expressing the Arctic!

[Images of art installations and events related to science communication, culture, and art.]
Confirmed current EU project funding:
ARICE, APPLICATE, EDU-ARCTIC, EEAS, NUNATARYUK, INTERACT

Other projects funded, in process or under development, include:
✓ Arctic Renewable Energy Atlas – AREA (Arctic Council),
✓ Arctic Business Directory – ABD (Northern Forum),
✓ Arctic Statistics (KMI Korea),
✓ CIAO Guest and Science Communication Centre (China-Iceland Arctic Observatory),
✓ CIAO Data Centre,
✓ Edu-tools,
✓ Pro-Active Diving,
✓ and more...
Arctic Portal is looking for partners, sponsors and strategic investors to support its objectives based on its vast knowledge, experience, information, data and valuable network of friends and partners.

For further information please contact:

Halldor Johannsson
halldor@arcticportal.org
+354-899-2828

Main office:
Radhustorg 7,
600 Akureyri,
Iceland