The Nordic Snow Cluster

Agenda

The Nordic Snow Cluster

- What is it?

- How does it look today?

- What are the future plans?

Peak Innovation/Peak 63

Regional and national innovation environment for sports, outdoor and tourism, with focus on winter.

Situated in Östersund and Åre, Sweden

ERIK MELIN SÖDERSTRÖM

Peak Innovation

Cover materials · Measurement techniques · Production · Quality · Snow Management · Salting · Storage · Energy production · Preparation · Wind transport and deposition
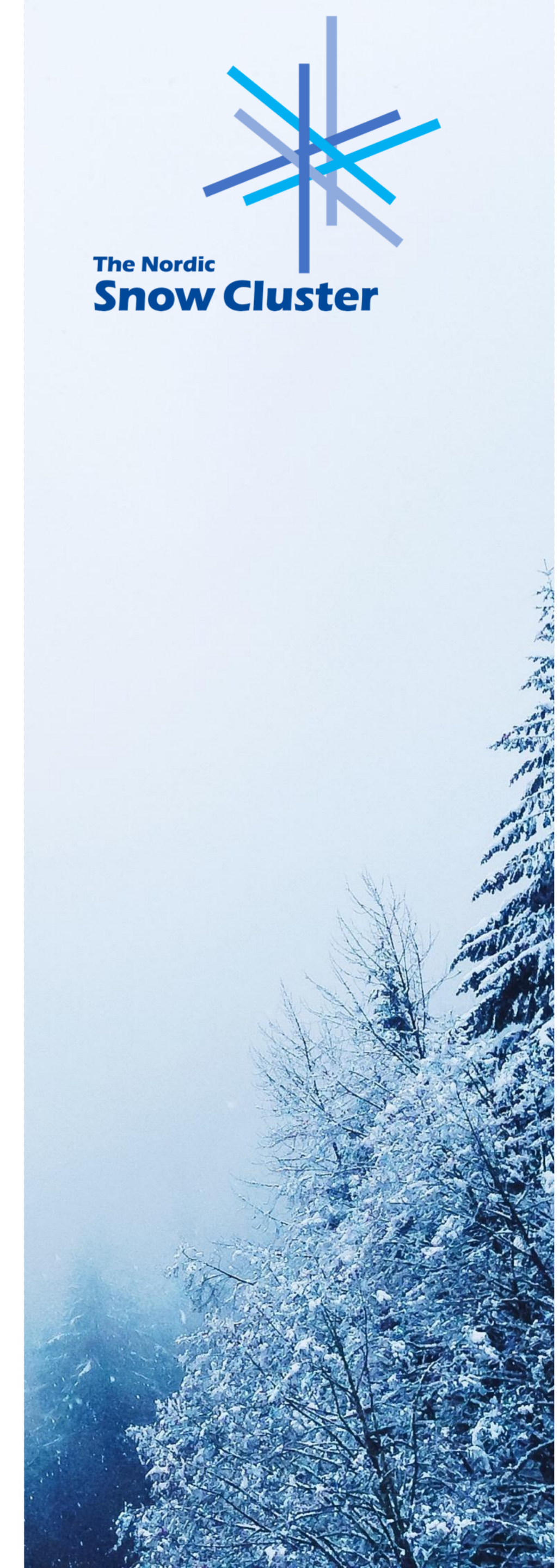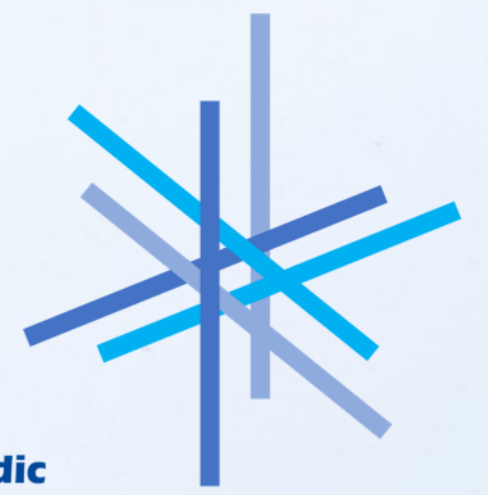
VISIT MEMBER

The Nordic Snow Cluster

Background:

- Snow is one thing that defines the Nordic countries and makes us unique.

- Many initiatives and projects around snow in the Nordic region

- Little coordination and collaboration between the Nordic initiatives.

- Funding group:
  - Peak Innovation/Peak 63
  - Luleå University of Technology
  - Mid Sweden University
  - Norwegian University of Science and Technology
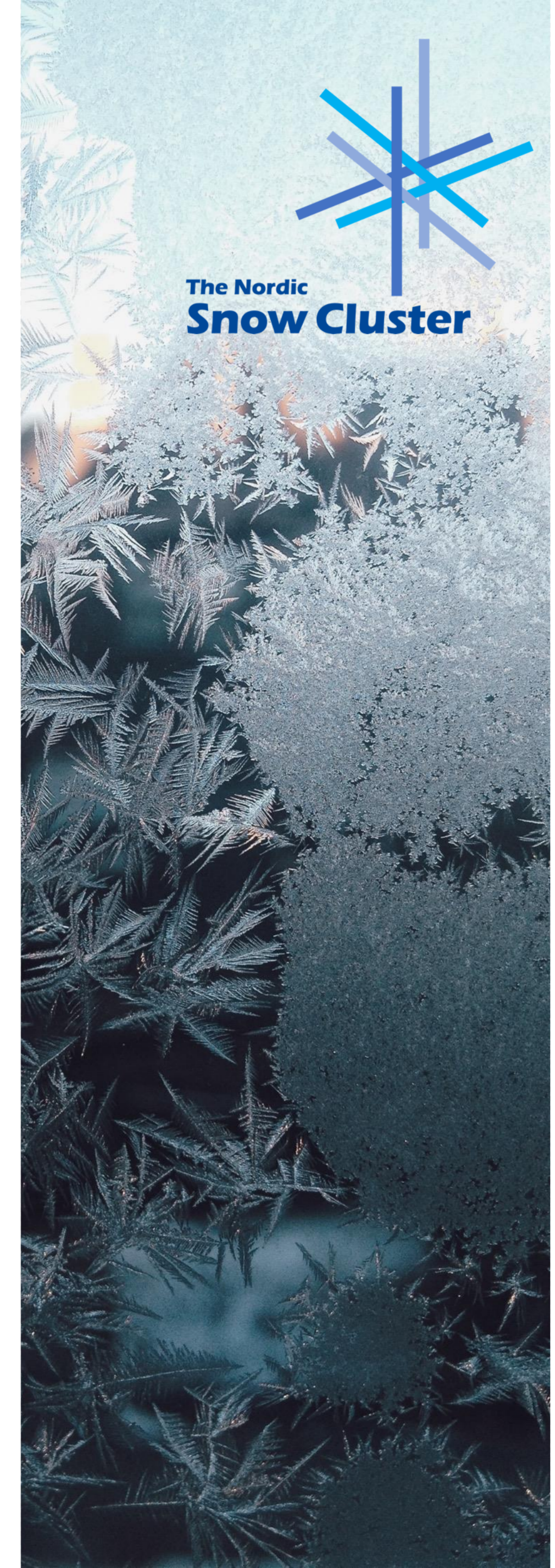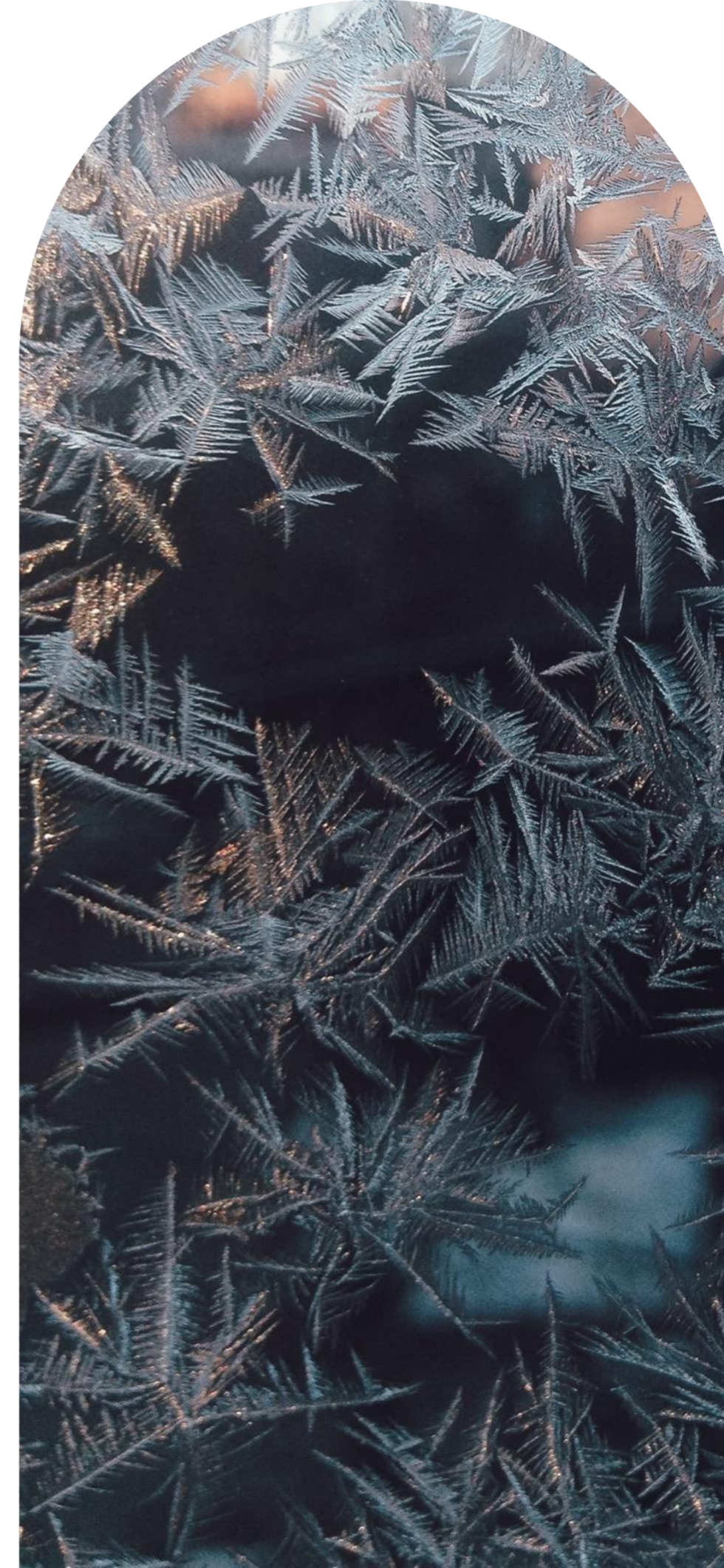
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Aim:

- Coordinate efforts around snow research and avoid redundancy

- Increase the speed of knowledge development within the area of snow

- Be better to solve national and international challenges

- Know of, and value add each other's areas of strength

- Get access to infrastructure for snow research that exists within the network

- Commercial actors can easily find the right partner for the challenges they face.

- Create a better awareness of the ongoing projects and the various skills that exist within the network.

- Build consortiums for larger projects (Horizon, EU etc.)

For whom:

- Any university or research institution with snow and snow related research in the Nordic countries (Sweden, Norway, Finland, Denmark, Greenland and Faeroe Islands)
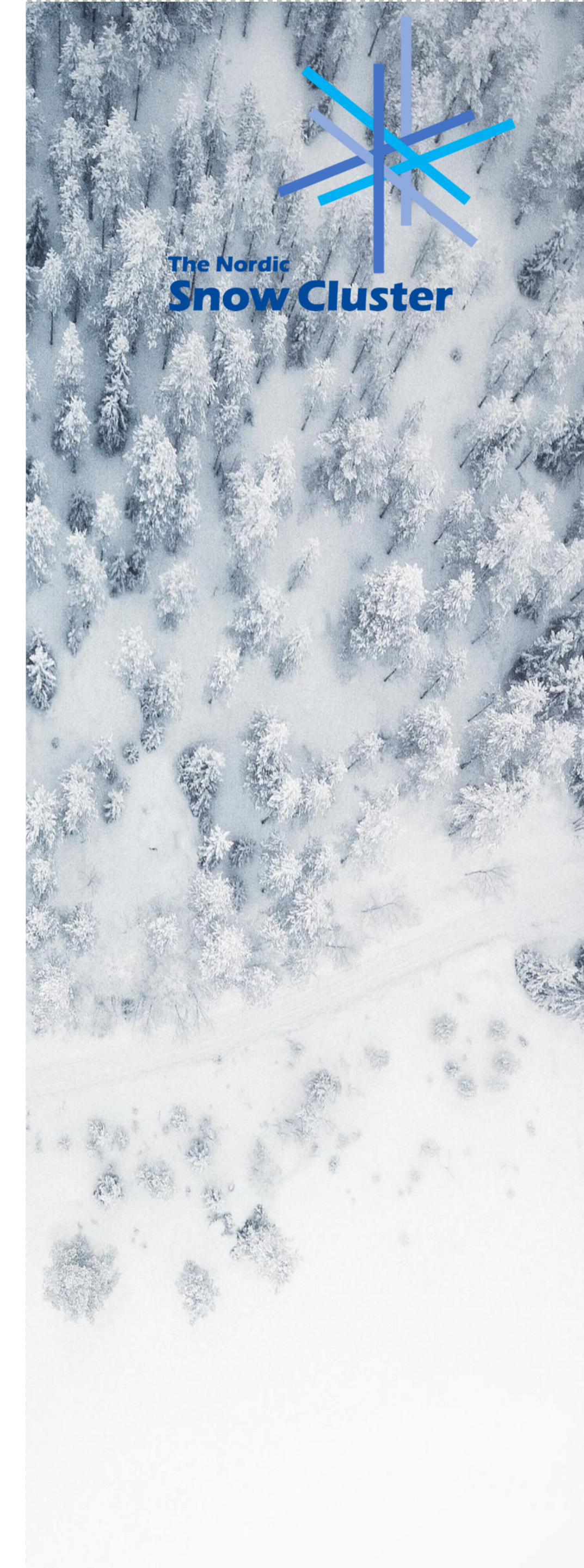
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Plan for 2021:

- Build up the cluster

- Build up and get the platform running
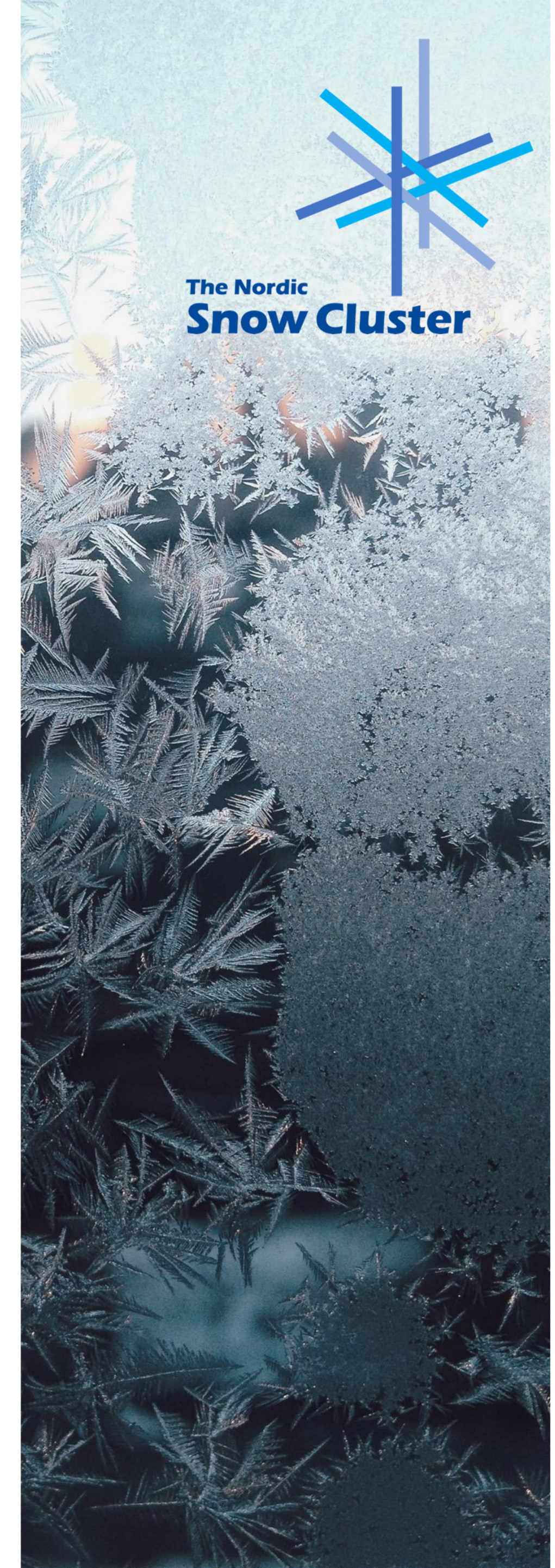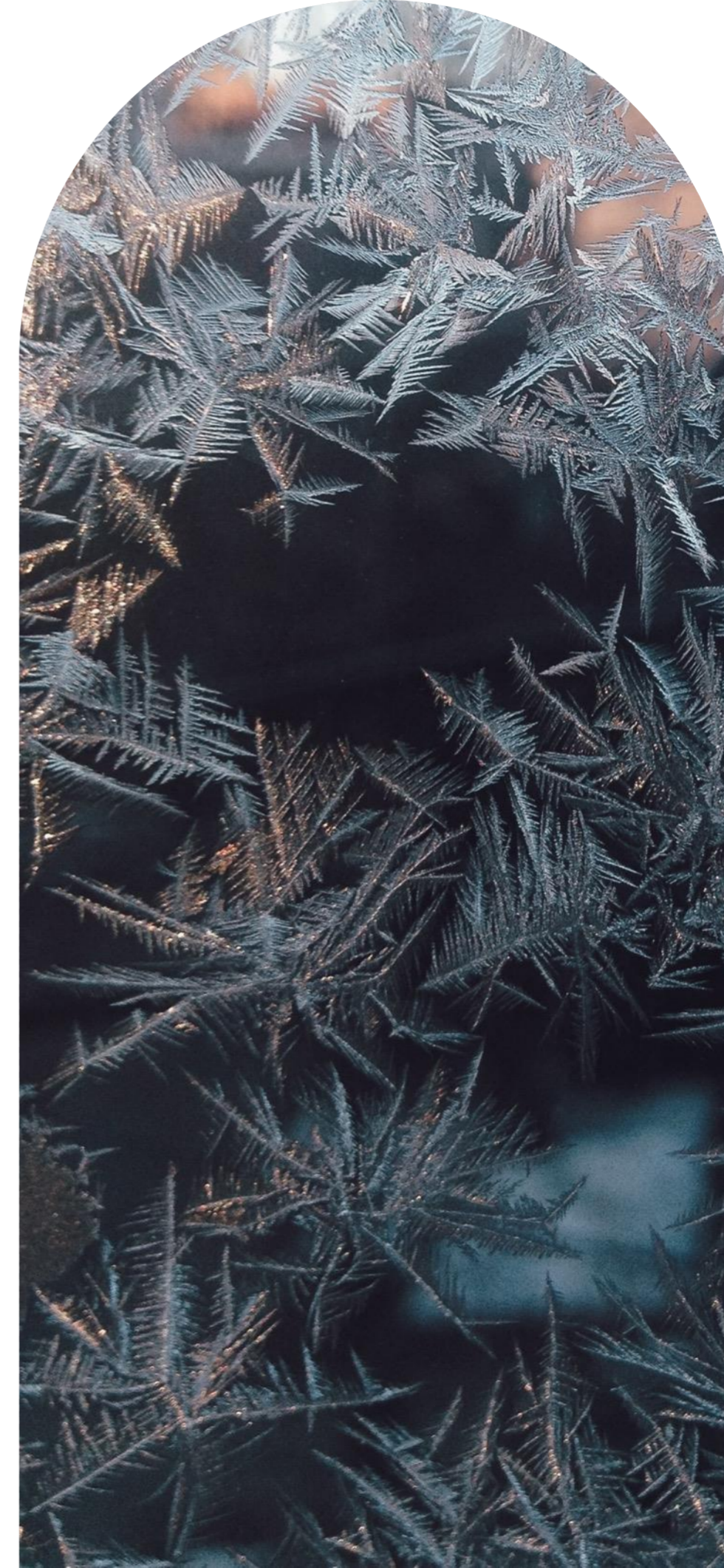
- 1 seminaries

Plan for 2022 and beyond:

- Continue to improve and manage the cluster

- Manage the platform

- 2 seminaries/year

- Add connection to the private and public sector

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Member organisations:

- o Peak 63 (coordinator)
- o Luleå University of Technology
- o Mid Sweden University
- o Norwegian University of Science and Technology
- o University of Oulo
- o Lappland University of Applied science
- o SINTEF research institute
- o Danish university of Technology
- o University of Oslo
- o Norwegian University of Life Science
- o Stockholm University
- o University of Tromsö

The Nordic
Snow Cluster

The Nordic Snow Cluster

Members/key persons:

o   Erik Melin Söderström, Peak Innovation (coordinator)
o   Jan Stala, Peak Innovation (coordinator)
o   Johan Casselgren, Luleå University of Technology
o   Roland Larsson, Luleå University of Technology
o   Agneta Larsson, Luleå University of Technology
o   Nina Lintzén, Luleå University of Technology
o   Mikael Bäckström Mid Sweden University
o   David Samulsson, Mid Sweden University
o   Andrey Kptyug, Mid Sweden University
o   Benny Thörnberg, Mid Sweden University
o   Alex Klein Paste, Norwegian University of Science and Technology
o   Sondre Bergtun Auganæs, Norwegian University of Science and Technology
o   Rune Strand Ødegård, Norwegian University of Science and Technology
o   Oddbjörn Bruland, Norwegian University of Science and Technology
o   Audun Formo Buene, Norwegian University of Science and Technology
o   Bjørn Aas Norwegian University of Science and Technology
o   Bjørn Åge Berntsen, Norwegian University of Science and Technology
o   Felix Breitscädel, Norwegian University of Science and Technology/Olympiatoppen
o   Thomas Vikhamar Schuler, University of Oslo
o   Anssi Mäkynen, University of Oulo
o   Pertti Ala-aho, University of Oulo
o   Kai Ryynänen, Lappland University of Applied science
o   Niko Niemisalo, Lappland University of Applied science
o   Ole Marius Moen, SINTEF research institute (Trondheim)
o   Ingrid Camilla Clausen, SINTEF research institute (Trondheim)
o   Ross Wakelin, SINTEF research institute (Narvik)
o   Holger Koss, Danish university of Technology
o   Thomas, Ingman-Nielsen, Danish university of Technology
o   Jennifer Fiebig, Danish university of Technology
o   Thomas Kringlebotn Thiis, Norwegian University of Life Science
o   Yngve Birkelund, University of Tromsö

Some areas of expertise mentioned

- Techniques of snow measurement
- Snow melt and hydropower
- Road friction
- Snow ski friction
- Icing on surfaces
- Icing and wind power
- Snow management, production and snow storage
- Road maintenance in winter
- Permafrost
- Snow wind drifting
- Snow and architecture
- Snow as a construction material
- Snow simulation
- Remote and drone sensing/measurements of snow
- Falling snow
- Snow loads
- Snow and solar power
- Glaciers
- Snowpack

The platform - snowcluster.org

LATEST NEWS

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LAUNCHDATE FOR SNOWCLUSTER.ORG

The final launch date is now set to 14th of December. More about the Nordic Snowcluster: There are currently quite a few organisations within Scandinavia that work with research, innovation and development around snow as a resource. We also see…

READ MORE

LATEST PROJECTS

RESEARCH CENTER WINTER OPERATION

Good winter operation of roads is important to get people and goods safely through the winter. Plowing, scattering with sand…

VISIT PROJECT

NANO2GLIDE

Skiing is very important for Norway, and Norwegians strongly identify with this sport. We constantly hear top athletes comment on…

Measurement techniques

Quality   Sliding friction

Snow Mechanics

VISIT PROJECT

SNÖ

Project to increase snow competence in Jämtland Härjedalen Through increased, cooperation, knowledge and testing around snow.

Cover materials

Snow Management   Storage

VISIT PROJECT
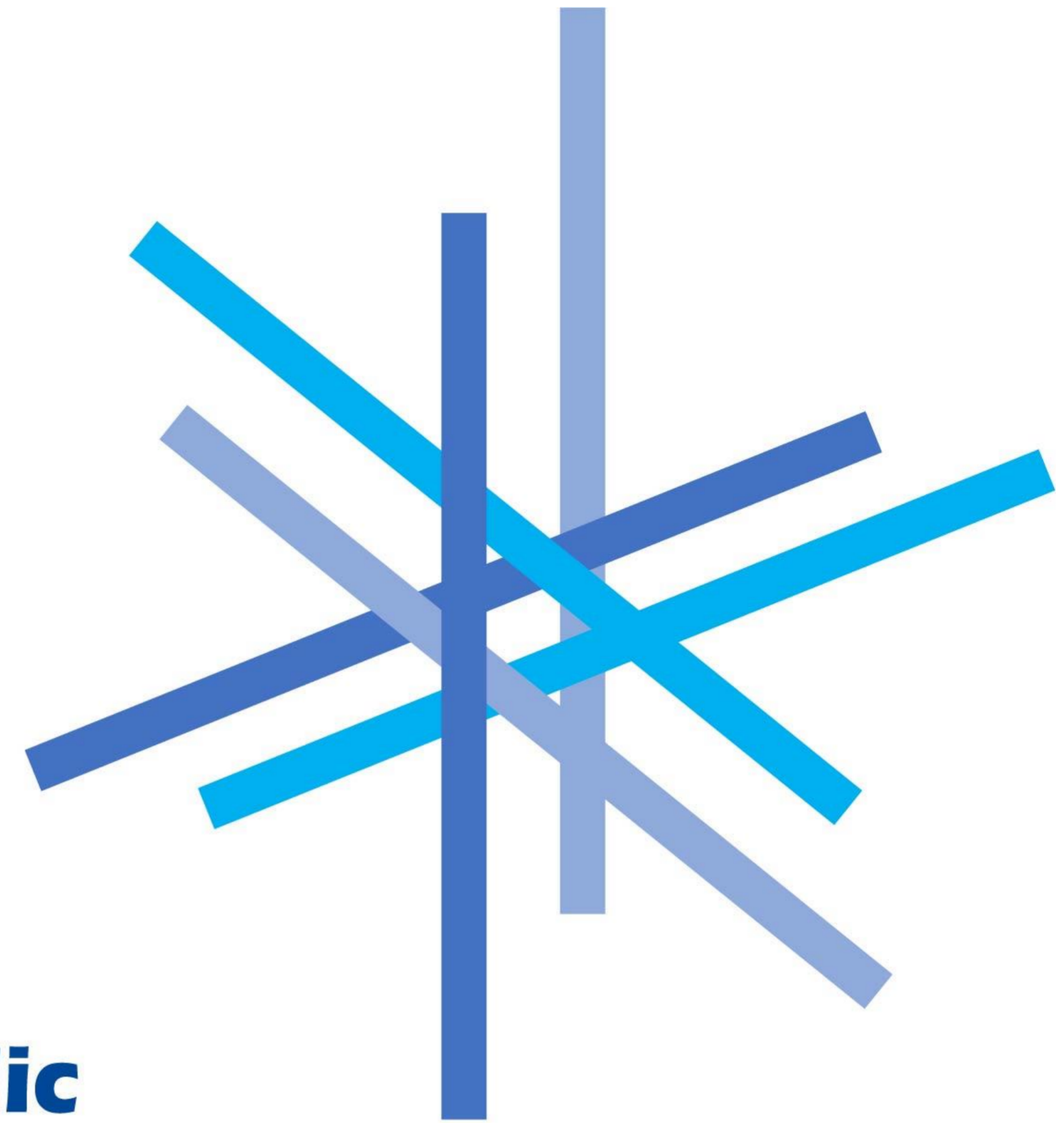
Thanks!

Want to know more please contact me

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