



## Webinar on Polar Connect: 7 October 2024

**Opportunities for a long-term Arctic Observatory using Submarine Cables.  
Join the discussion! Your expertise and insights are valuable!**

The Swedish Polar Research Secretariat invites you to a webinar on Polar Connect. The goal of Polar Connect is to build a submarine communication cable system between Northern Europe and East Asia, equipped with environmental sensing technology. Please see the [Polar Connect Vision 2030](#) for more information.

Polar Connect will enable novel Arctic Research Infrastructure and provide access to unprecedented data from the deep Ocean. As part of the European Union Connecting Europe Facility (CEF Digital) funded project 'North Pole Fiber', we will present and discuss opportunities for scientific data collection along the route of Polar Connect with a focus on the seas between the Nordics and Svalbard. We would like to hear what your dream dataset would look like!

This is an excellent opportunity to engage in and shape future sensing efforts on Polar Connect. Please circulate this invitation within your organization.

### Project Partners and organizers



**NORTH  
POLE  
FIBER**  
22-EU-DIG-NPF



**Co-funded by  
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### Webinar Details:

- **Date and time:** Monday, 7 October 2024 at 14:00-16:00 CEST
- **Register:** <http://npf.nordu.net/webinar> please register by 1 Oct 2024

### Agenda (tentative)

#### Part I

- 1. Introduction to Polar Connect**  
Polar Connect and its route through the Arctic. Latest news related to Polar Connect.
- 2. Science Opportunities on Polar Connect**  
Presentation of the various avenues available for scientific data collection.
- 3. Sensing with Submarine Cables**  
Examples of already conducted studies that use scientific data from submarine cables.
- 4. Technological Advances in Sensing on Submarine Cables**  
Developments in sensing from a technical perspective. Visions for submarine cable sensing.

#### Part II

- 5. Extended Q&A with all speakers**
- 6. Discussion Session**  
Engage in fruitful discussions and explore potential synergies with Polar Connect. Discussion of sensing opportunities and wishes from the scientific community in detail - separated by topic in breakout rooms: oceanography, geophysics/seismology, marine biology.
- 7. Wrap-up and Next Steps**  
Final information, planned future events, and next steps for interested parties.

For more information on Polar Connect, the North Pole Fiber project, and sensing technology, please visit:

- [Polar Connect - NORDUnet](#)
- [North Pole Fiber – Laying the foundations for Polar Connect](#)
- [SMART cable sensing technology](#)
- [Distributed Acoustic Sensing \(DAS\) and State of Polarization \(SOP\)](#)

All the best,

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**Keywords:** Arctic Observing, Fram Strait, North Sea, Norwegian Sea, Greenland Sea, Submarine Cable Sensing, SMART Sensors, Distributed Acoustic Sensing (DAS), Passive Underwater Acoustics, Year-around Long-term Arctic Ocean Observations, Arctic Oceanography, Deep Ocean Temperature and Salinity, Arctic Marine Biology, Seismology, Geophysics, Ocean and Climate Sciences, Arctic Ocean Research Infrastructure