

# Arctic Phi-Lab Resource Catalogue

**What you get access to as a Phi-Lab project or applicant**

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A series of white, wavy, concentric lines on a dark blue background, starting from the bottom right and curving upwards and to the left, creating a sense of motion and depth.

ESA Arctic Phi-Lab Norway is part of ESA's Phi-LabNET network and helps companies and research groups turn space technology into solutions for Arctic challenges. Selected projects receive seed funding, but also access to the infrastructure, data, tools and expertise of the Arctic Phi-Lab consortium partners in Tromsø. This catalogue gives an overview of what each partner makes available to Phi-Lab projects, and how to get access.

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## EUR 4.4 million in seed funding

approx. NOK 46 million, awarded to projects through our Open Calls

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## Our toolbox

**01**

### **Seed funding**

Co-funding of selected projects through our Open Calls.

**02**

### **Technical support**

Expert support on satellite data, SAR, ocean data and operational EO services.

**03**

### **Access to infrastructure**

Ground stations, EO data, autonomous ocean vehicles, drones, aircraft and high-performance computing.

**04**

### **Business support and coaching**

Business development, commercialisation and go-to-market advice.

**05**

### **Office space and facilities**

A workplace in Tromsø's innovation and space community.

**06**

### **Networking**

Access to the consortium, ESA Phi-LabNET and the European space ecosystem.



# KSAT

## Kongsberg Satellite Services

World-leading provider of ground station and Earth observation services, and prime contractor and administrator of Arctic Phi-Lab.

Best suited for

Projects that need satellite data, downlink capacity or a route from prototype to operational service.

What Phi-Lab projects can access

- Global ground station network for downlinking EO data
- Commercial multi-mission EO data
- Catalogue of EO data, imagery and value-added information
- Research access to near-real-time (NRT) maritime services
- Research access to tools used in operational EO information extraction
- Expertise in EO maritime monitoring, SAR imagery and optical imagery
- Expertise in implementing and commercialising operational EO services
- KSAT Order Desk guidance on how to task, order and plan commercial EO data



# NORCE

## SAR tools and airborne data

Independent research institute and one of Norway's leading institutes in satellite Earth observation.

Best suited for  
Projects working with SAR data, or needing airborne data collection for validation.

What Phi-Lab projects can access

- Free use of NORCE's SAR processor and visualisation software
- Use of drones and scientific aircraft at cost price
- General technical support

**norinnova**

# Norinnova

## Office space and business development

Business development company and incubator in Tromsø, focused on technology transfer and growth companies.

Best suited for

Teams that need a base in Tromsø and support on business models, funding and growth.

What Phi-Lab projects can access

- Free use of office facilities
- Consultancy for business development



# Akvaplan-niva

## In-situ ocean data, data platform and models

Research and consultancy company integrating research, decision support and innovation for safe and sustainable water operations.

What Phi-Lab projects can access

Autonomous ocean vehicles

A large fleet of offshore unmanned vehicles with multiple sensors (optical, CTD, active and passive acoustics), collecting physical oceanography and biological data for months, at the surface and through the water column. Use for ground truthing, complementing or calibrating satellite observations.

Blue Insight data portal

A cloud-based portal, developed with Kongsberg Discovery, to visualise and contextualise large marine datasets, with features for assimilating satellite data. Processing pipelines for satellite observations can be developed and deployed in Blue Insight.

High-resolution ocean modelling (FVCOM)

Models that capture and visualise oceanographic features, to complement and correlate satellite observations.

Best suited for

Marine and coastal applications that need in-situ data, ocean models or a data platform.



# UiT

## The Arctic University of Norway

The world's northernmost university, with a strong Earth observation research group.

Best suited for  
Projects that benefit from close research collaboration, compute capacity or historical data.

What Phi-Lab projects can access

- Guest researcher stays in UiT's EO group for up to 3 months, with guest scientist status and collaboration with the regular staff
- Access to high-performance computing (on UiT's access and security terms)
- Access to the EO group's archive of open satellite data, in-kind data and software

# How to get access

## 1. Before you apply

- Use this catalogue to identify the partner resources that are relevant to your project.
- Not sure what fits? Contact the Arctic Phi-Lab team before the deadline — we can arrange an introductory talk with the relevant partner.
- In your proposal, describe which resources you plan to use, what for, and the expected scope (for example vessel deployment period, data volume, or length of a guest research stay).

## 2. When your project is selected

- Partner resources are planned together with you at project start and included in the project plan.
- The Arctic Phi-Lab team connects you with a named contact at each partner.
- Details of the access — scope, timing and practical arrangements — are agreed directly with each partner.

## 3. Terms

- Free of charge — for example NORCE's SAR processor and visualisation software, and Norinova's office facilities.
- At cost price — for example NORCE's drones and scientific aircraft.
- Partner terms apply — for example UiT's computing resources, which follow UiT's access and security rules, and KSAT's research access to services and tools.
- All resources are subject to the partner's availability and capacity.

**Already a Phi-Lab project? Contact us at any time if you need a resource that was not part of your original plan.**



Photo: Tromsø, Andreas Vonlanthen / Unsplash

## Contact Us

[arcticphilab.no](https://arcticphilab.no)

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