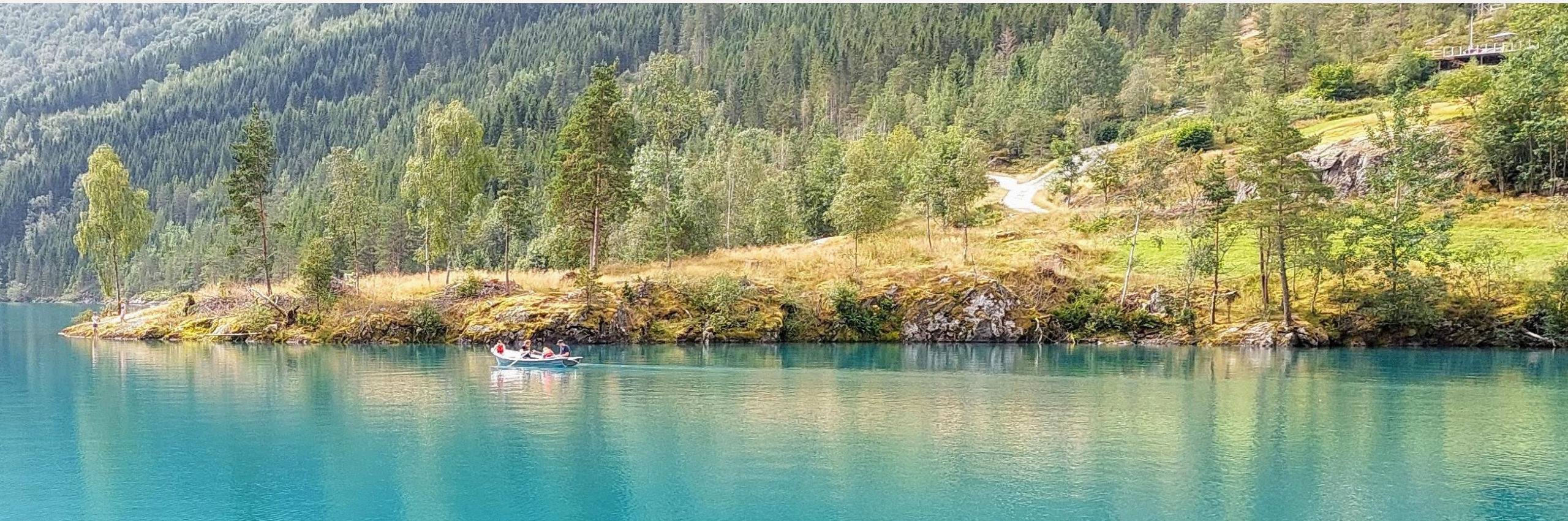


National report Norway 2023

EUREF symposium – Gothenburg.

Gro Grinde, Norwegian Mapping Authority



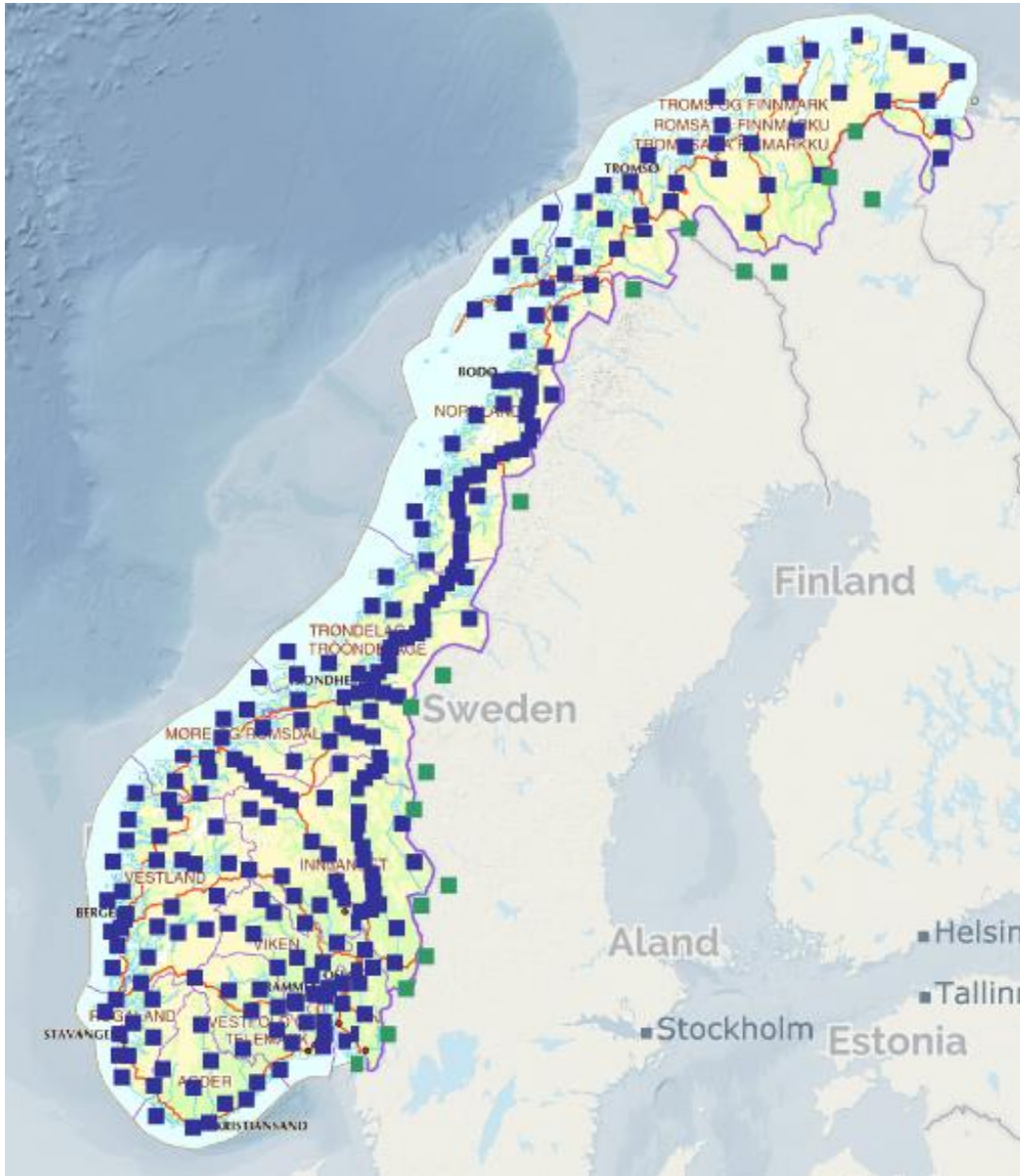
Ny Ålesund geodetic observatory

3 operational VLBI radiotelescopes:

- NS: VLBI legacy
- NN: VLBI VGOS
- NY: VLBI legacy. Will be permanently stopped, and dismantled in august 2023

SLR: Planned operational 2025





RTK service CPOS

The CPOS RTK service has currently 4844 users.

Raw data from all our stations are distributed to several private RTK services, estimated to have between 10 000 – 15 000 users.

User fee.

Based on

302 GNSS stations pr 14.02.2023

up from

294 GNSS stations pr 01.01.2022

HyPOS- National Hybrid Positioning Service for the Digital and Autonomous Societies of the Future

The Norwegian Mapping Authority wants to develop an accurate, scalable service for position determination in real time, with a larger coverage and higher redundancy than before.

- (i) develop a new scalable method for broadcasting GNSS correction data;
- (ii) use the telecommunications network's 5G as an independent source for position determination
- (iii) develop a new hybrid positioning service using both GNSS Correction (i) and 5G broadcasting (ii)

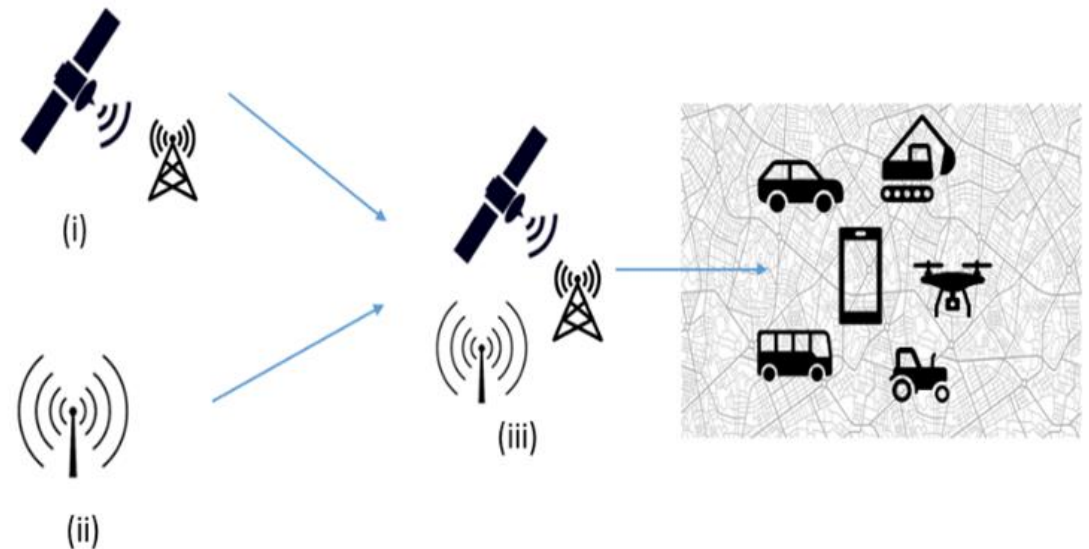


Figure 1. (i) GNSS with the Norwegian Mapping Authority's GNSS infrastructure, (ii) mobile network, (iii) hybrid positioning service.

Coordinator: ITS Norway

Partners: 34 (27 participants + 2 affiliated entities + 5 associated partners)

Timeline: 1 October 2022 - 31 March 2026

Total cost: € 27,992,880 - **EU contribution:** € 23,030,095

Funding scheme: Innovation Action (IA)

The ambition of MODI

Accelerate the introduction of CCAM solutions to significantly improve logistic chains

- The MODI project aims to **accelerate the adoption of highly automated freight vehicles through demonstrations** and by **overcoming barriers to the rollout of automated transport systems and solutions in logistics**.
- MODI will demonstrate automated heavy-haul vehicles use cases on the **logistics corridor from Rotterdam in the Netherlands to Moss in Norway**, crossing four national borders and demonstrating terminal operations at four different harbours and terminals in route.
- **Automated transport will significantly contribute to improving European transport and logistic chains**. The MODI initiative will contribute to make substantial steps toward identifying and resolving barriers preventing this from coming true.





Questions?

Contact

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Kartverket