National report, Norway 2024





Positioning service

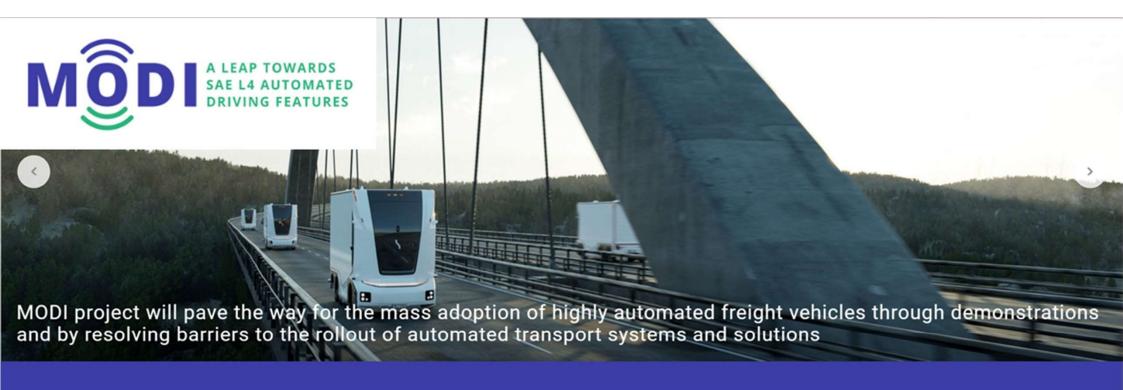
We are constantly increasing the number of our realtime positioning service (CPOS) users.

- The Norwegian Mapping Authority (NMA) now has more than 5000 unique users.
- Other private companies that base their services on the CPOS system have more than 15,000 unique users.
- We have also broadened our PGS network, now encompassing over 300 stations.



NVE uses CPOS for bathymetric mapping. Photo: Line Dale, NVE.





MODI ACCELERATES THE INTRODUCTION OF HIGHLY AUTOMATED SOLUTIONS TO IMPROVE EUROPEAN LOGISTIC CHAINS



5 use cases across Europe driven by business challenges.

MODI comprises five use cases, each describing a part of the logistics supply chain. The project will focus on understanding and overcoming the regulatory barriers and infrastructure shortcomings on the motorway corridor for public roads.

34

ORGANISATIONS

8 COUNTRIES 5 USE CASES 42

28M €

MONTHS

BUDGET

GEMOP project

Galileo and EGNOS Monitoring Of Performances by Member States

- Project participants: 27 organizations of 15 European countries
- Support for the Galileo Reference Centre (GRC) in Netherland
- Monitoring of Galileo and EGNOS service performance
- NMA is involved in several working package:
 - OS navigation performance (WPG3.1)
 - HAS performance (WPG3.2)
 - Nequick model performance (WPG3.4)
 - Galileo SLR evaluation (WPG5.2)
 - EGNOS OS & SoL performance (WPE3.1)





Hybrid Positioning Service (HyPos)

Hypos is a public-private collaboration between the Mapping Authority, Sintef, Telia, and Ericsson. The project is part-financed by the Research Council of Norway. The aim is to develop an accurate, scalable service for position determination in real-time, with greater coverage and higher redundancy than before.

- 1) Develop a new scalable method for broadcasting GNSS correction data.
- 2) Use the telecommunications network's 5G as an independent source for position determination.
- 3) Develop a new hybrid positioning service using both GNSS Correction (1) and 5G broadcasting (2).

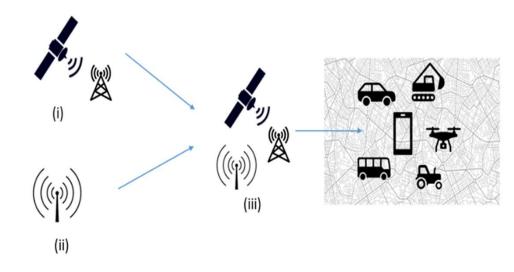


Figure (i) GNSS with the Norwegian Mapping Authority's GNSS infrastructure, (ii) mobile network, (iii) hybrid positioning service.



New transformation platform

A new transformation platform will be available online in 2024, where coordinates between the different reference frames can be transformed. The service will include:

- Single transformation
- File transformation supporting the most common formats used for geographical information

Finn riktige koordinater

Her kan du raskt og enkelt regne om koordinater fra ett koordinatsystem til et annet.

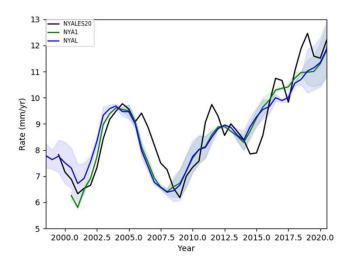
Referansesystem	Koordinatsystem	Høydesystem	Sone
Koordinat	Koordinat	Høyde	Tid
koordinatsystem			
Referansesystem	Koordinatsystem	Høydesystem	Sone



The VLBI scale issue in ITRF2020

The increasing uplift in Ny-Ålesund can partly explain the VLBI scale issue in ITRF2020 due to mass changes (melting glaciers).

The uplift in Ny-Ålesund for a 5-year moving window has doubled since 2000





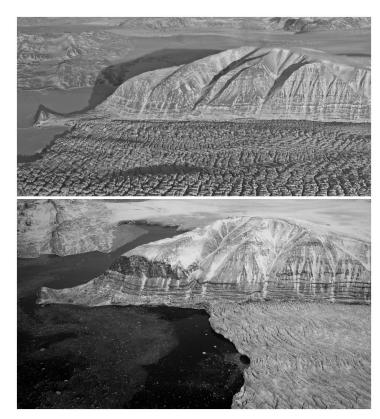


Photo: Bjørn-Owe Holmberg