

National report - Norway



Positioning services



- Number of stations:
 - 309 stations pr 03.03.2025
 - 302 stations pr 14.02.2023
 - 210 stations pr 01.01.2018
- Replacing legacy Trimble NetR9 receivers with Leica GR50
- Paying subscribers: 5300
- Free-of-charge subscriptions (R&D, innovation, schools etc): 300
- Private companies estimated 18 000 unique users, based on the GNSS-stations from NMA.

Other activities



- Renewing the real-time data collection architecture
 - Moving from a self-developed Linux-based system, to commercially available solutions
 - Decision based on lacking software developer resources
- Tested Alberding NTRIP caster and Rinex generator, but found it lacking especially on Nav files and SBAS (b)-files
- Current concept being tested:
 - RTCM MSM5 streams from all receiver types through Trimble Pivot Platform router modules. Redundant setup (2x servers)
 - Download Rinex-files from receivers
 - GR50 OK, NetR9 missing doppler and slow conversion
 - Need to correct Rinex headers from stationDB

Status of GNSMART:



- Still using GNSMART from Geo++ but only for R&D projects
 - HYPOS and MODI projects
 - Soon upcoming data collection in these projects, where we will utilize SSRZ from GNSMART
- Carl will talk more about this in a later presentation