



NLS
NATIONAL
LAND SURVEY
OF FINLAND

National report - Finland

NKG WG GNSS positioning

March 4-5 2025

Helsinki Finland

News on CORS / FINPOS service

- 2024/7 → large scale jamming observed (also on ground)
- 2024 end of year again issues with ionosphere → no solution from Geo++ or Topcon ...
- 2024/12 stopped real-time data transmission to EPN (all 20 stations)
- 2025 testing of Trimble Pivot
- 2025 replace all Javad reference receiver flash memories. Also general maintenance on FinnRef stations
- 2025 whole NLS prepares to move to a new IT infrastructure provider (CGI)
- Security is a key word lately

News on EGNOS/RIMS in Finland

- EGNOS V2 RIMS's in Kuusamo and Lappeenranta up and running
- In future EGNOS V3 augments both GPS and Galileo in the L1 and L5 bands
 - 2024/8 Kuusamo RIMS V3 installed
 - 2025/7 Lappeenranta RIMS V3 installations

Projects

Interference against positioning systems and resilience of GNSS-receivers 4/2025 - 4/2027

- The project will focus on developing methods for real-time detection and mitigation of satellite navigation interference for air traffic and aerial imaging operators. The project will also investigate the possibility of correcting aerial images that has been taken under GNSS interference and will provide recommendations on how to minimise the problems caused by interference. This project will benefit operators of critical infrastructure and companies operating in eastern Finland.

