

kadaster

National report Netherlands

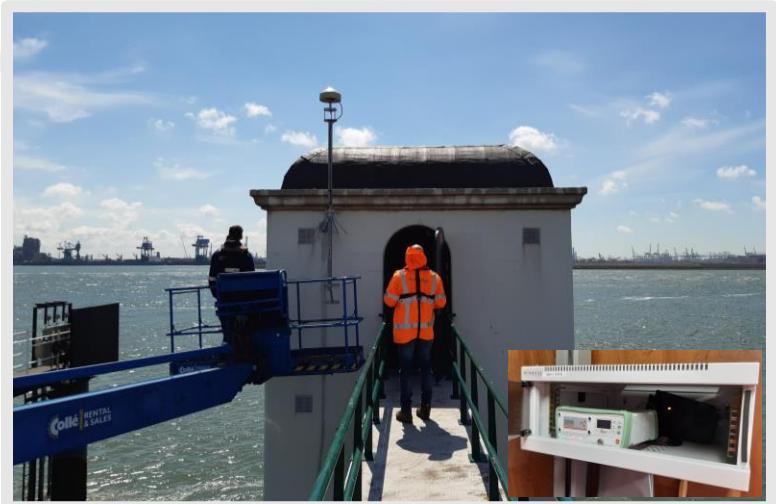
Lennard Huisman

Netherlands Partnership for Geodetic Infrastructure

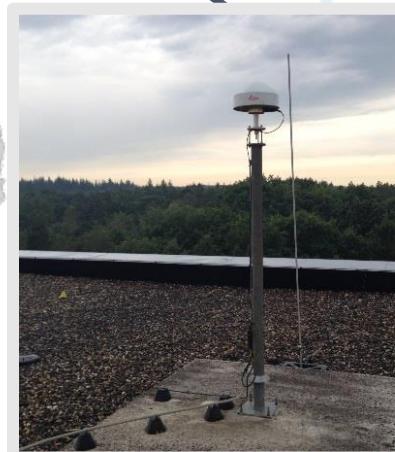
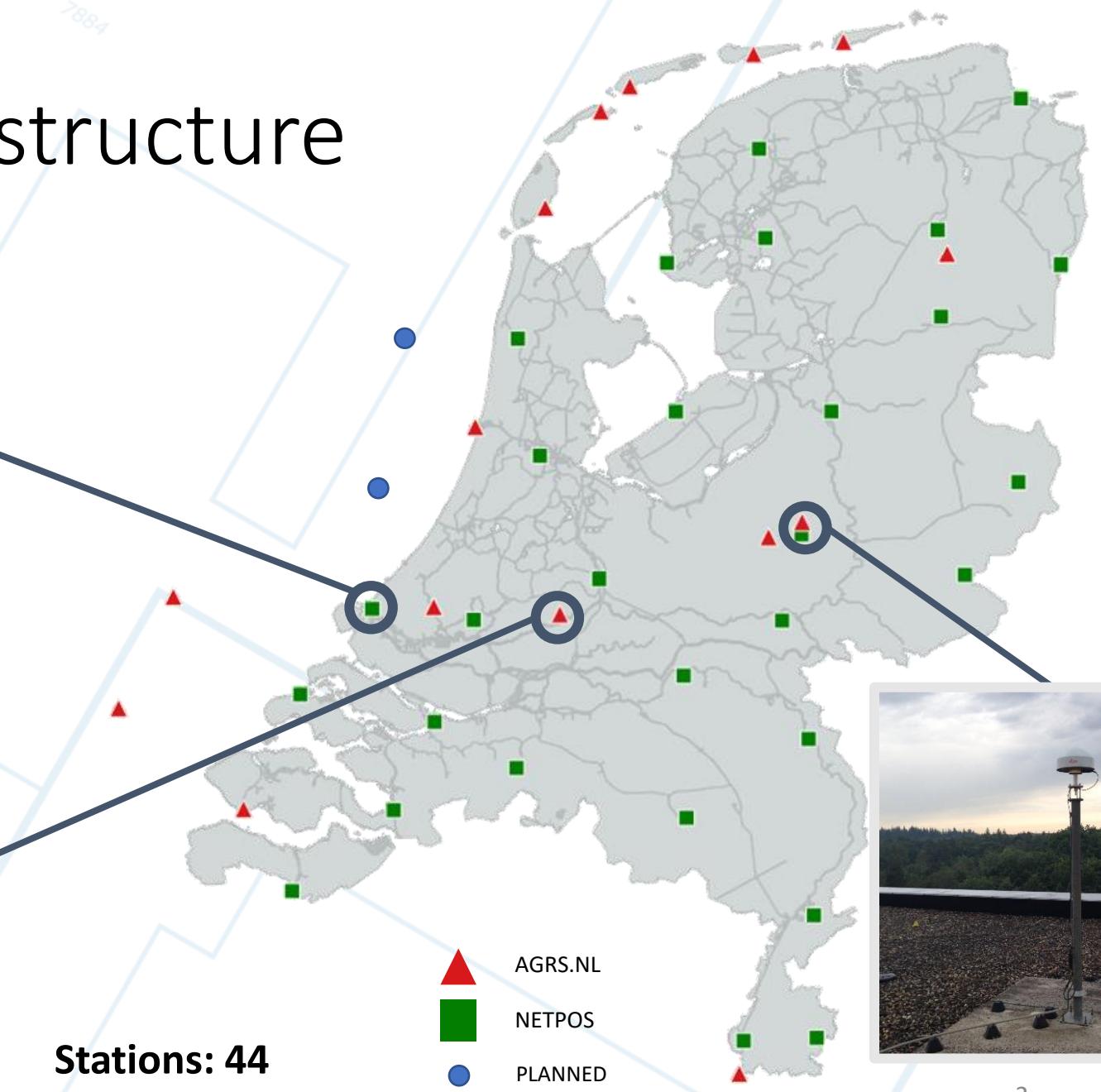
Kadaster

09 november 2021 EUPOS Technical meeting

GNSS network infrastructure



Stations: 44



GNSS network infrastructure

Footprints (kernnet)

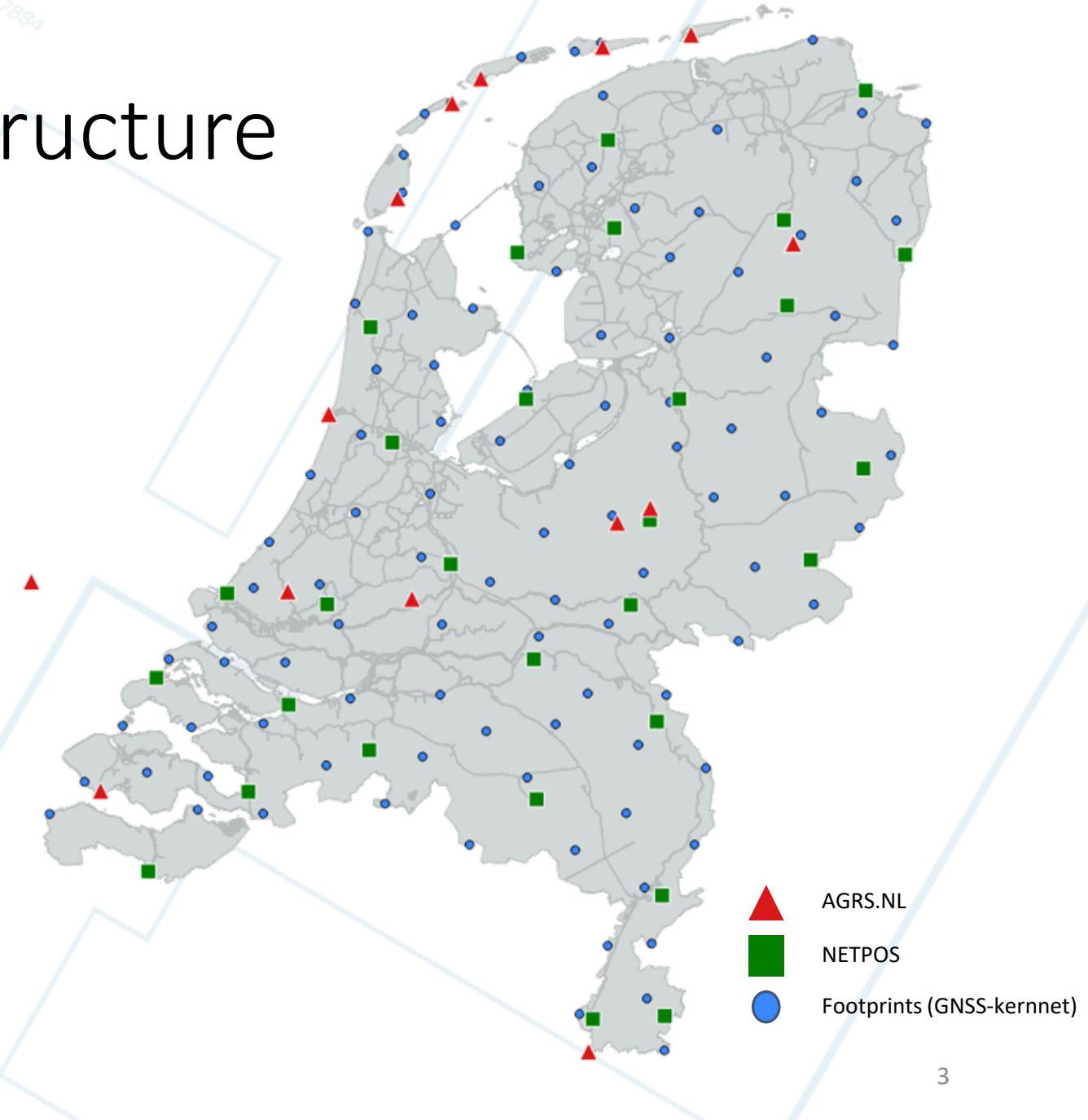
106 fysical points

GNSS levelling data

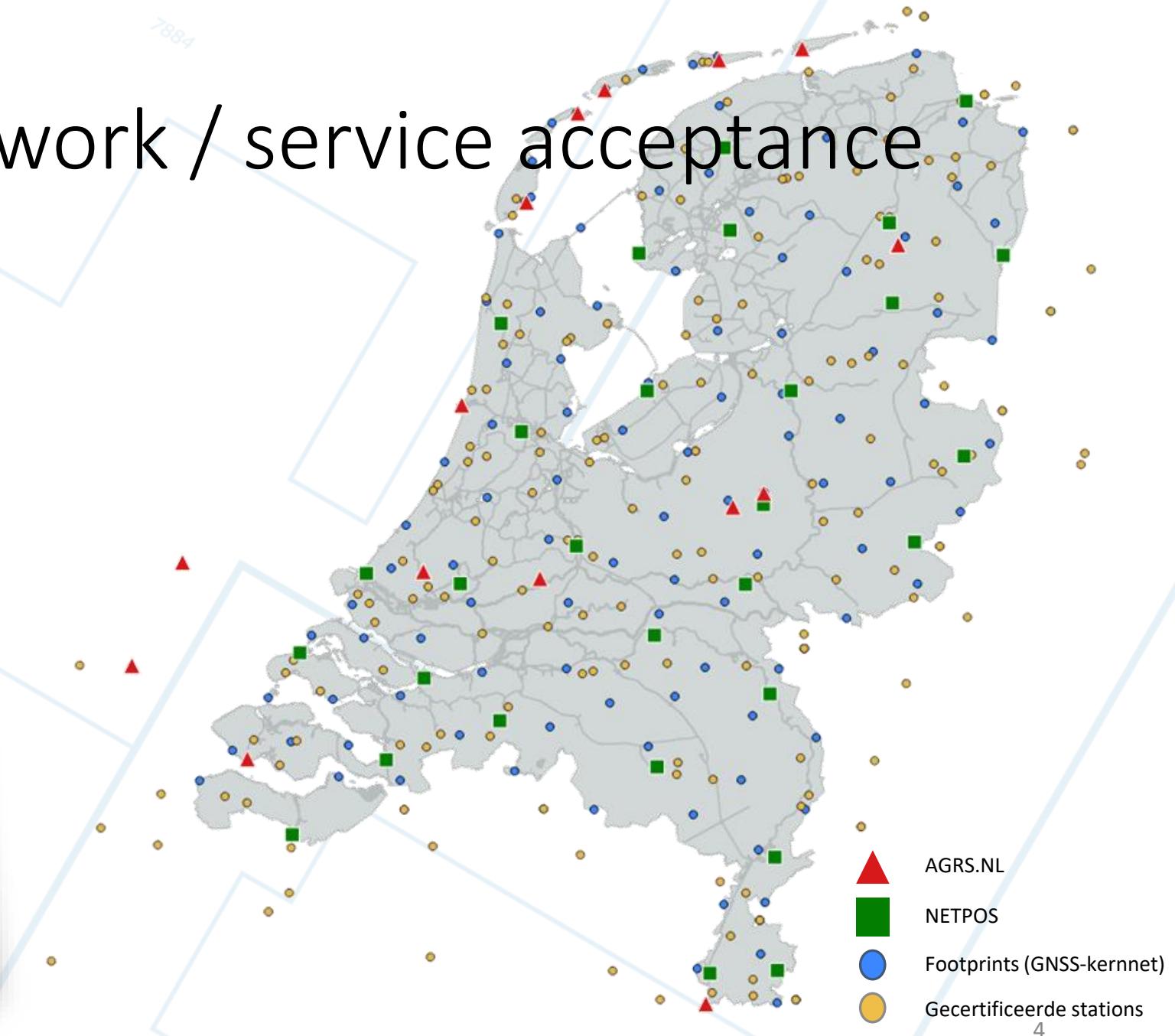
Validation of GNSS surveying equipment

Ground control measurements

Fall-back for RTK



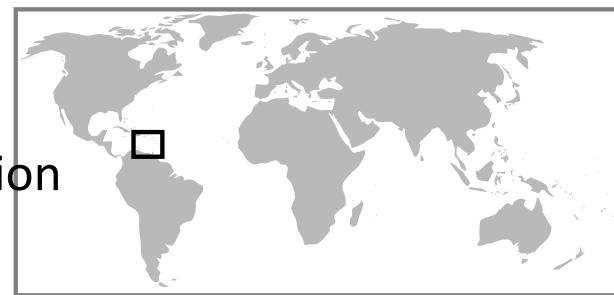
Private GNSS network / service acceptance



GNSS network infrastructure - Caribbean

Kadaster responsible for 3 netherlands
municipalities

- Modernisation GNSS-infrastructuur
- Maintenance physical network
- Time dependent coordinate transformation
- Single baseline RTK

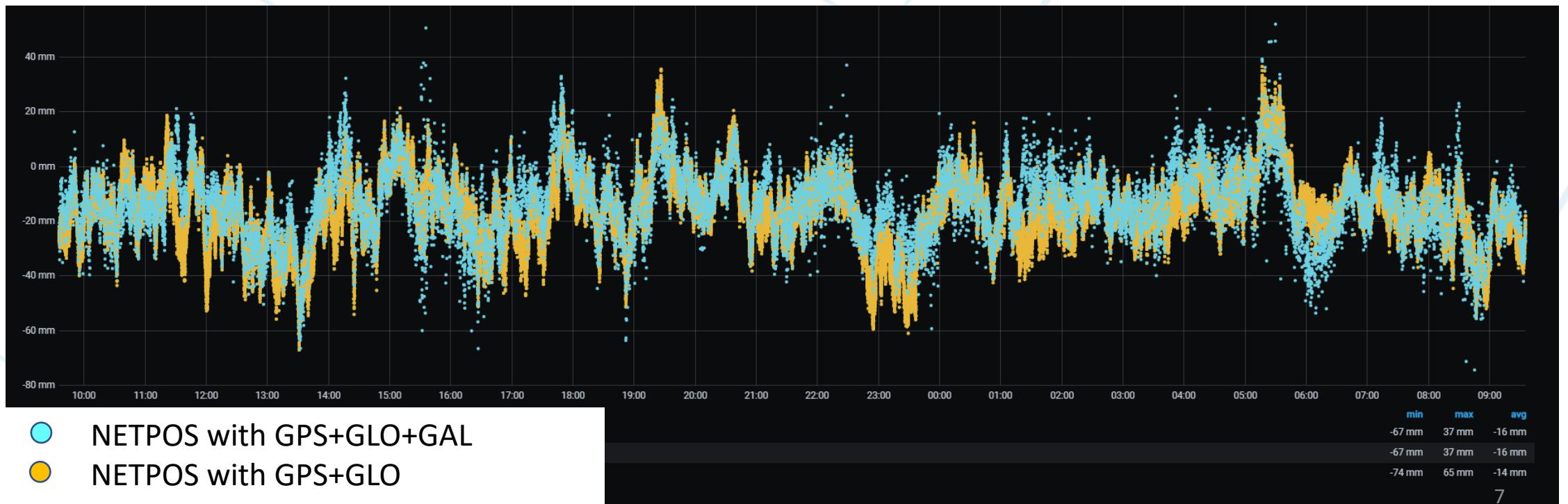


Secure connection to NTRIP caster

- Dedicated APN (production)
 - Private network without internet (mobile VPN)
- Server side TLS (testing)
 - Available in some hardware
- Client and server side TLS (under development)
 - Client certificate required for connection to NTRIP caster

Galileo and BeiDou readiness

- All receivers track Galileo and BeiDou, but not all E6 and not all BDS III
- Configuration for GPS+GLO_GAL ready in GNSMART, fine tuning in collaboration with GEO++



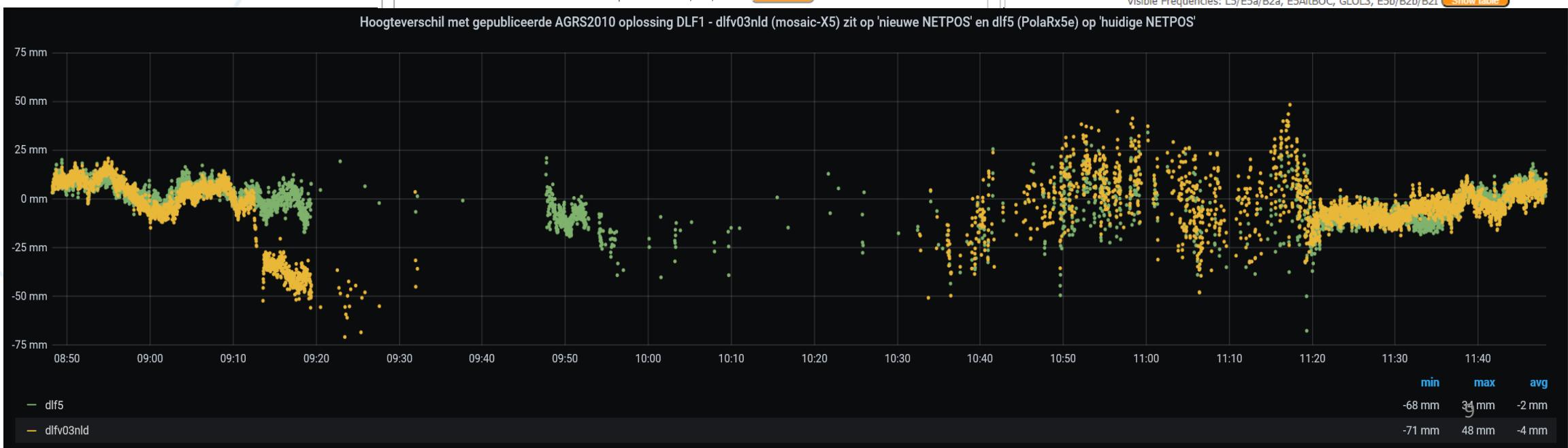
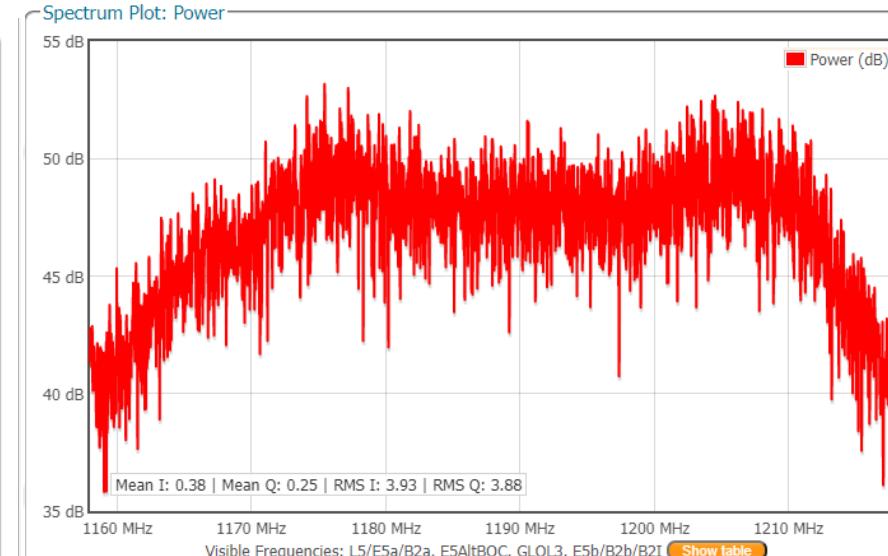
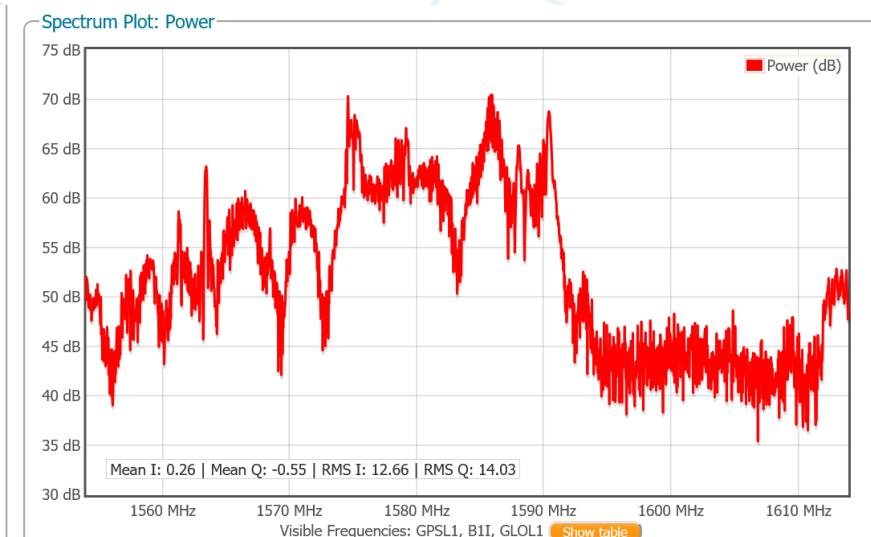
Experience with signal jamming, interference,

- Little experiences...

Experience with signal jamming, interference,

...

- Little experiences...
- However...
- Source unknown



Other news

- Vacancies for geodesist/surveyor
 - Perform adjustments and analysis
 - Support GNSS users
 - Maintenance of GNSS network
 - Maintain registration (database and metadata)
 - Coordinate transformations
 - Coordinate contractors
 - Requirement to learn Dutch

kadaster

National report Netherlands

Lennard Huisman

Netherlands Partnership for Geodetic Infrastructure

Kadaster

09 november 2021 EUPOS Technical meeting