



Kartverket

National report Geodetic Institute, NMA

March 2020



Johnny Welle

Johnny Welle is the
new Director General
from April 1st

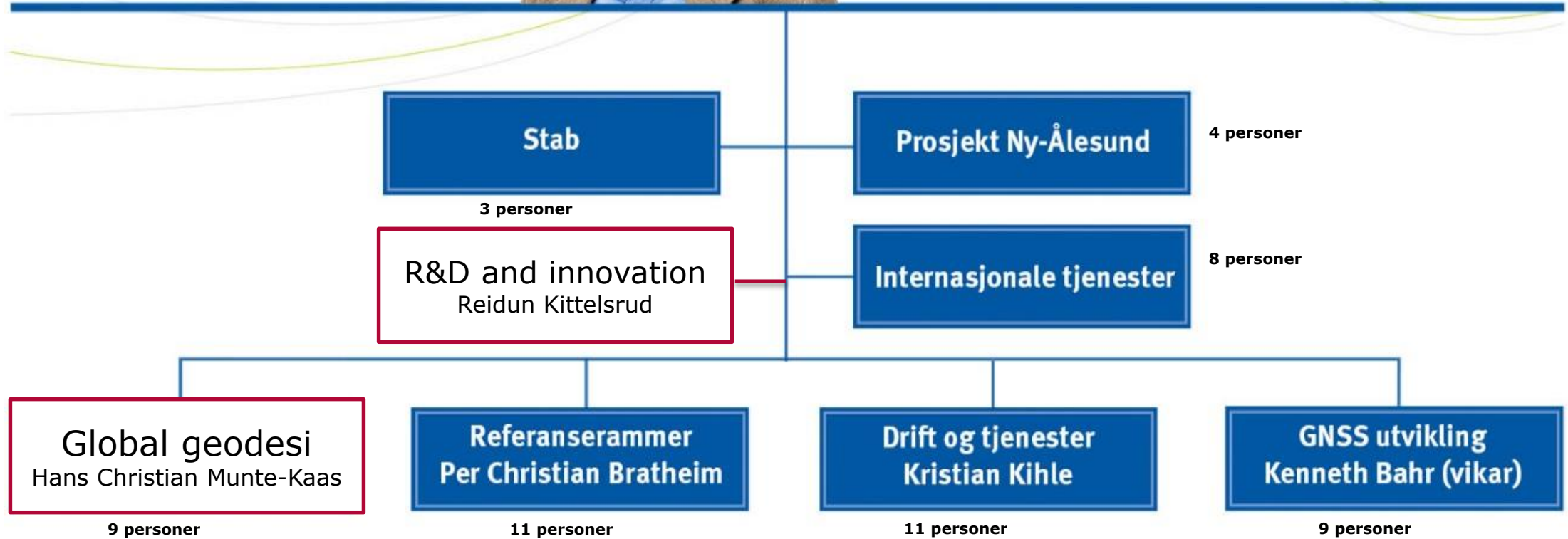
He has a background
from the IT industry



Changes from April 2020



Per Erik Opseth
Divisjonsdirektør Geodesidivisjonen



Position as section manager
GNSS development is vacant.

Expansion in streaming of rawdata



SIGNERINGSMØTE: Formidlingsdirektør Tomas Martin Holtan og daglig leder Vegard Solli i Leica Geosystems AS.

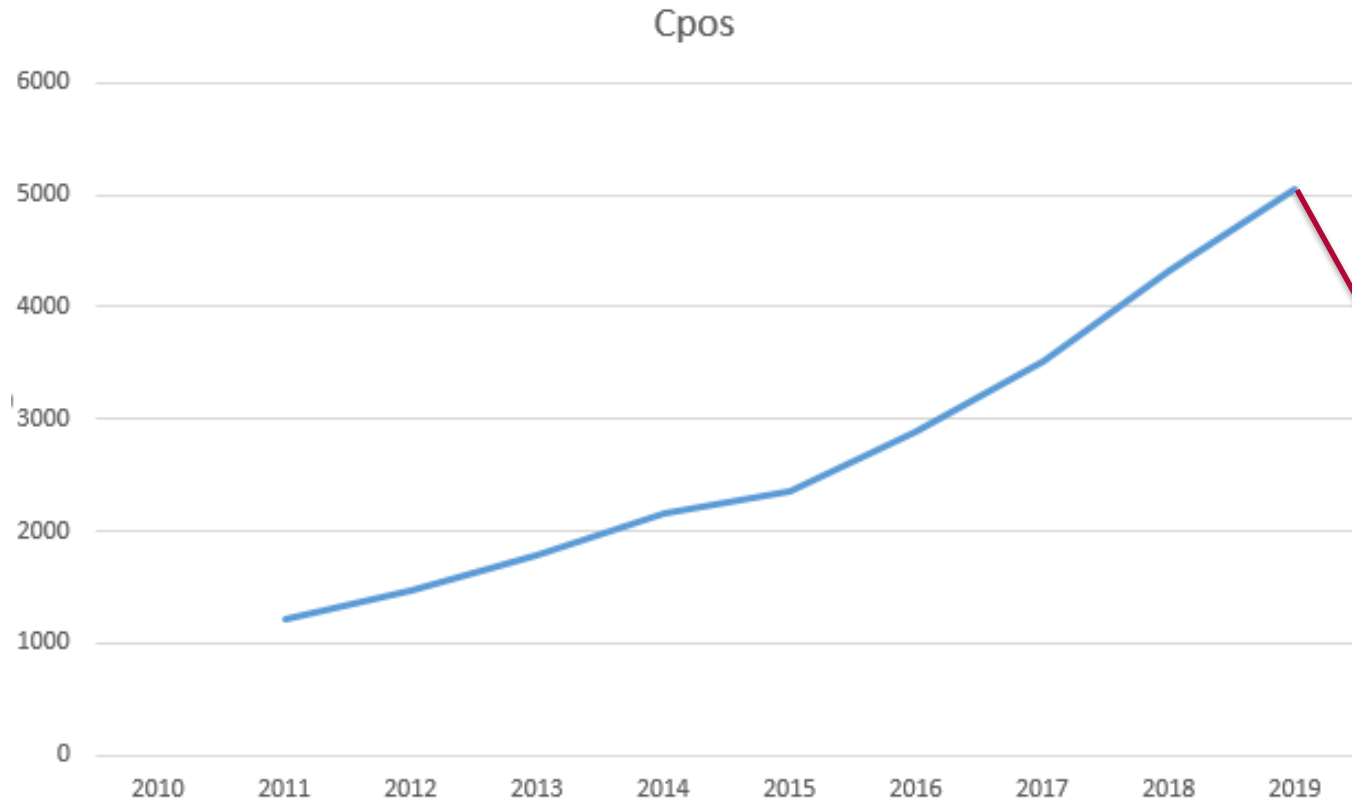
Foto: Synne Storvik

Går over til Kartverkets basestasjonsnettverk

Flere private bedrifter ser nytten av å gå over til og hente data direkte fra Kartverkets permanente geodetiske basestasjoner i stedet for drifte og eie egne bakkenett. Nylig ble det inngått avtale med Leica Geosystems AS, som vil basere sine tjenester på Kartverkets basestasjonsnettverk.



Users of the positioning services



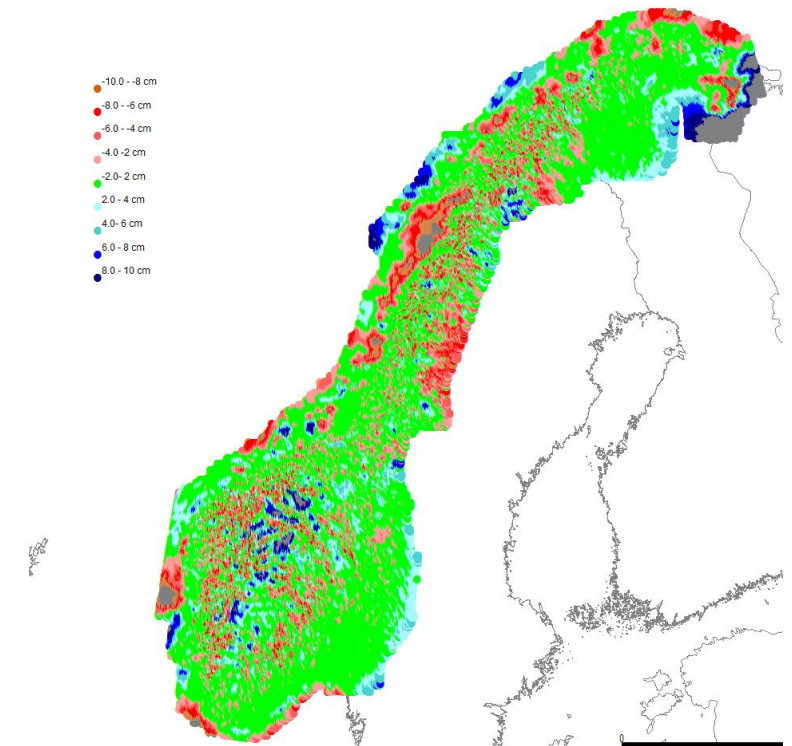
Contract with Bane NOR – railroad authorities

- 27 new stations along the none electricified railroads established in Norway in 2019
- 20 more stations to be established in 2020.
- Will improve Bane Nor efficiency in their effort of positioning the rails.



Performed user analysis 2019

1. Socioeconomic analysis of the positioning service and access to raw data from the GNSS network
2. Study: Is there a need for an improved height system for Norway
3. Study: How will the ongoing development in the GNSS industry affect what we considers as the reference frame in Norway?



Ny-Ålesund geodetic observatory



VLBI

- We finally succeeded in correlating and calculating a coordinate of VLBI1 based on three hours of data using a three band feed with DBBC3
- Three baand feed with DBBC3 expected to become operational by end of March.
- The first VGOS feed is in place in the other antenna. Still some minor issues to be resolved. Hope to get it into a pre operational before summer.



SLR

- Unexpected delay of 1,5 years in deliverables from NASA.
- ORR expected to take place in 2024.
- New discussions with NASA in March.



NKG Summer School 2020

Ove Christain Dahl Omang



Space Geodesy
in Support of the

Future Autonomous Society



When: 31. Aug – 3. Sept

Monday	Tuesday	Wednesday	Thursday
Intro to space geodesy and autonomous world	Basic geodesy, Safty and GDPR	GNSS positioning for autonomy	Real life examples
<ul style="list-style-type: none">- keynote speakers- poster session- icebreaker w food		Conference Tour and Dinner	
Start with lunch @ 1230			End - approx 15-17

High priority tasks in 2020

- Increased robustness of public GNSS infrastructure, data and services
- Automated data analysis processes
- Monitoring, analysis and quality control of GNSS data
- Helping establish a Norwegian "Space situational awareness" - SSA system
- Export of national solutions – Sehavnivå
- Realizing a common reference for sea and land to ensure easier and more sustainable use of the coastal zone
- Reduce transition time for a new national reference frame - from 5-7 years down to weeks, or preferably minutes.
- Maintain National contribution to global frame of reference