



Kartverket

# NATIONAL REPORT FROM NORWAY

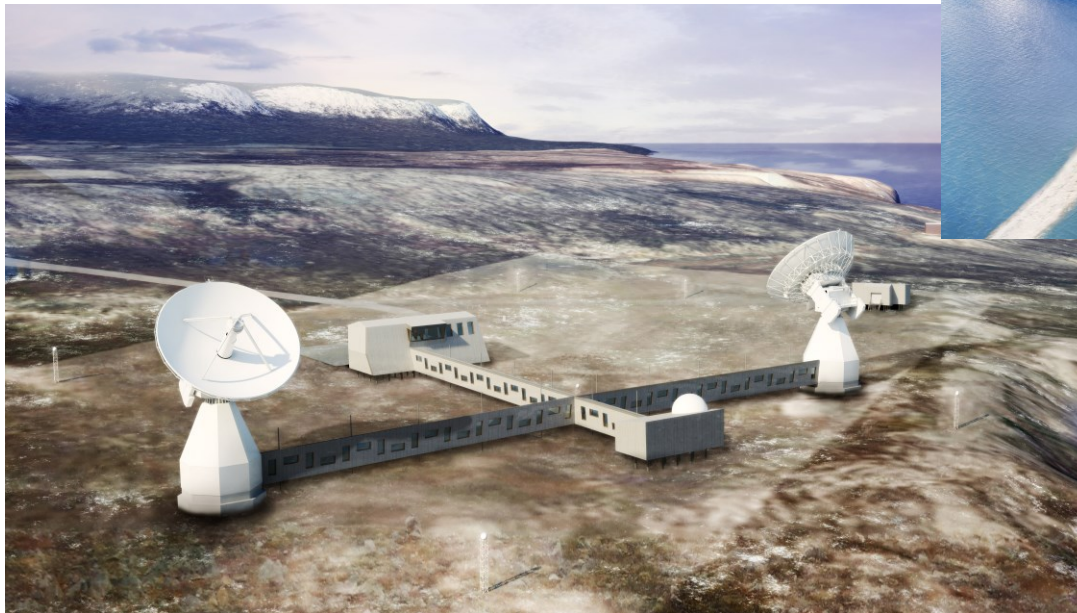
*EUREF 2016*



Ny-Ålesund. Photo: Roger Hougen

# Fundamental station

Ny Ålesund in Spitsbergen

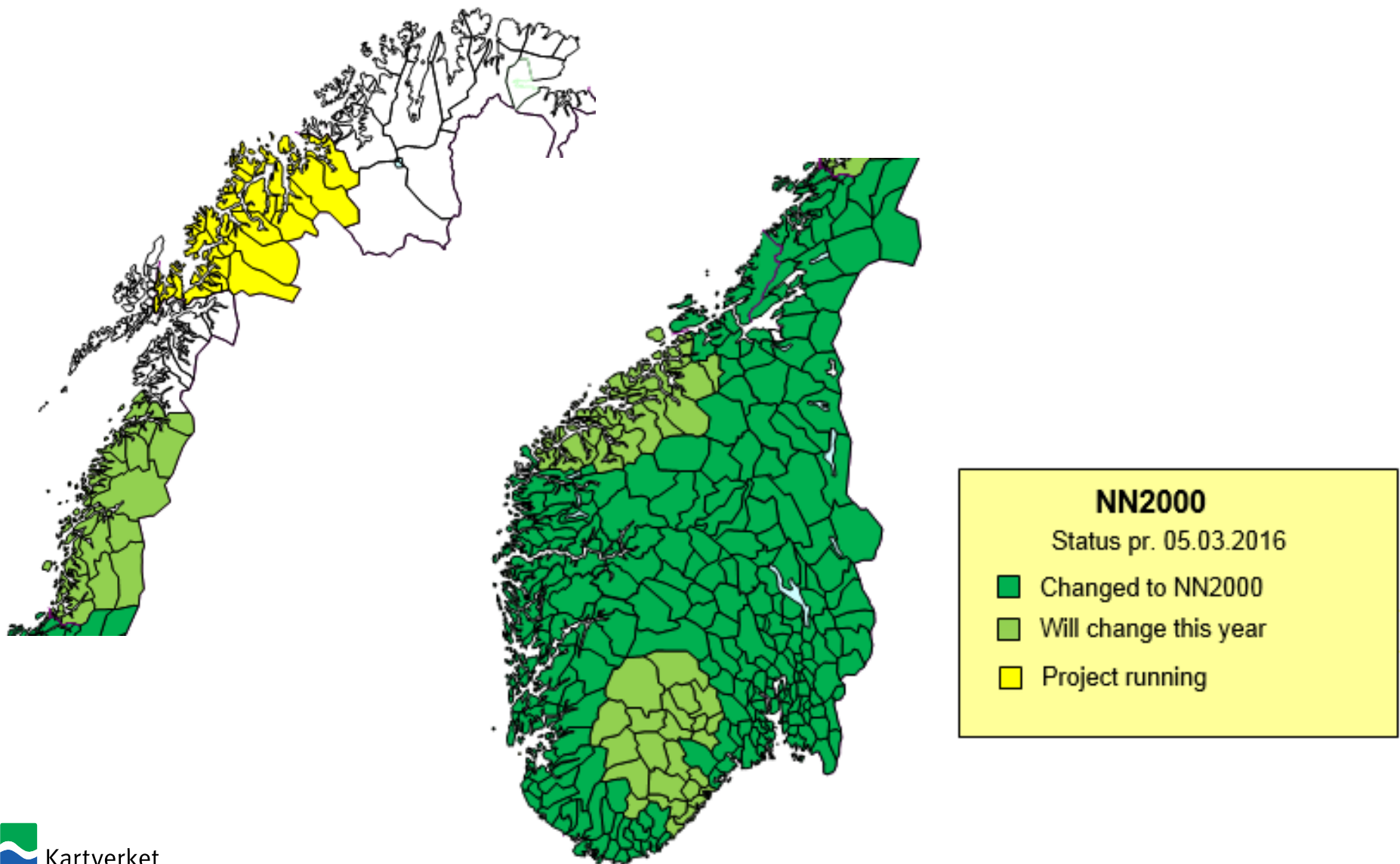


- Multi technique station: VLBI, SLR, DORIS and GNSS
- Planned operational in 2018 (SLR in 2020)
- Fully government-funded. Total sum of 34 mill EUR
- The VLBI telescopes installed 2016



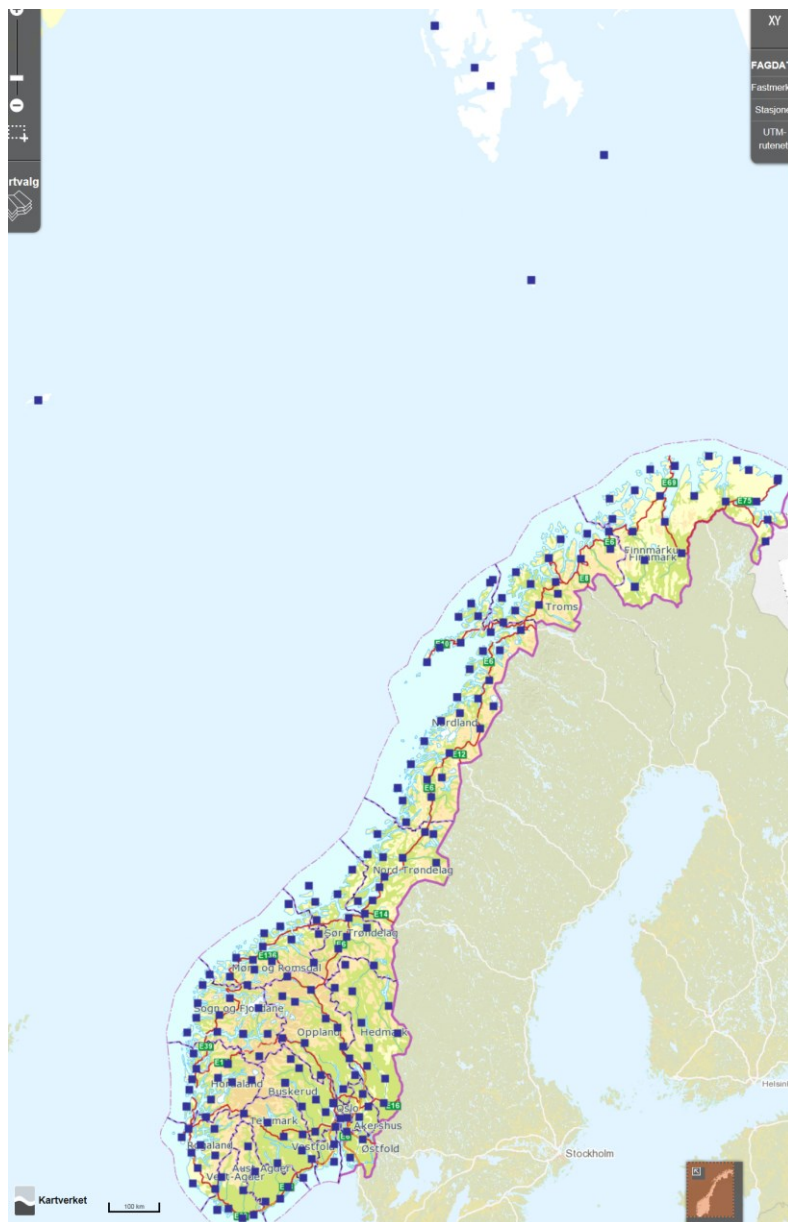


# Municipalities changing to NN2000/EVRS2007





# Continuously operating reference stations (CORS)



More than 200 stations.

Densification from 70 to 35 km network in selected areas near completed.



# Variation in EUREF89 coordinates depending on survey method

**EUREF89 from passive  
geodetic network (Est.  
1994-2008)**

**EUREF89 from  
RTK-services  
(CPOS)**

**EUREF89 by  
other methods  
like PPP  
ITRF2008**



**CORS**  
ITRF2008



Transformation  
ITRF2008 - EUREF89



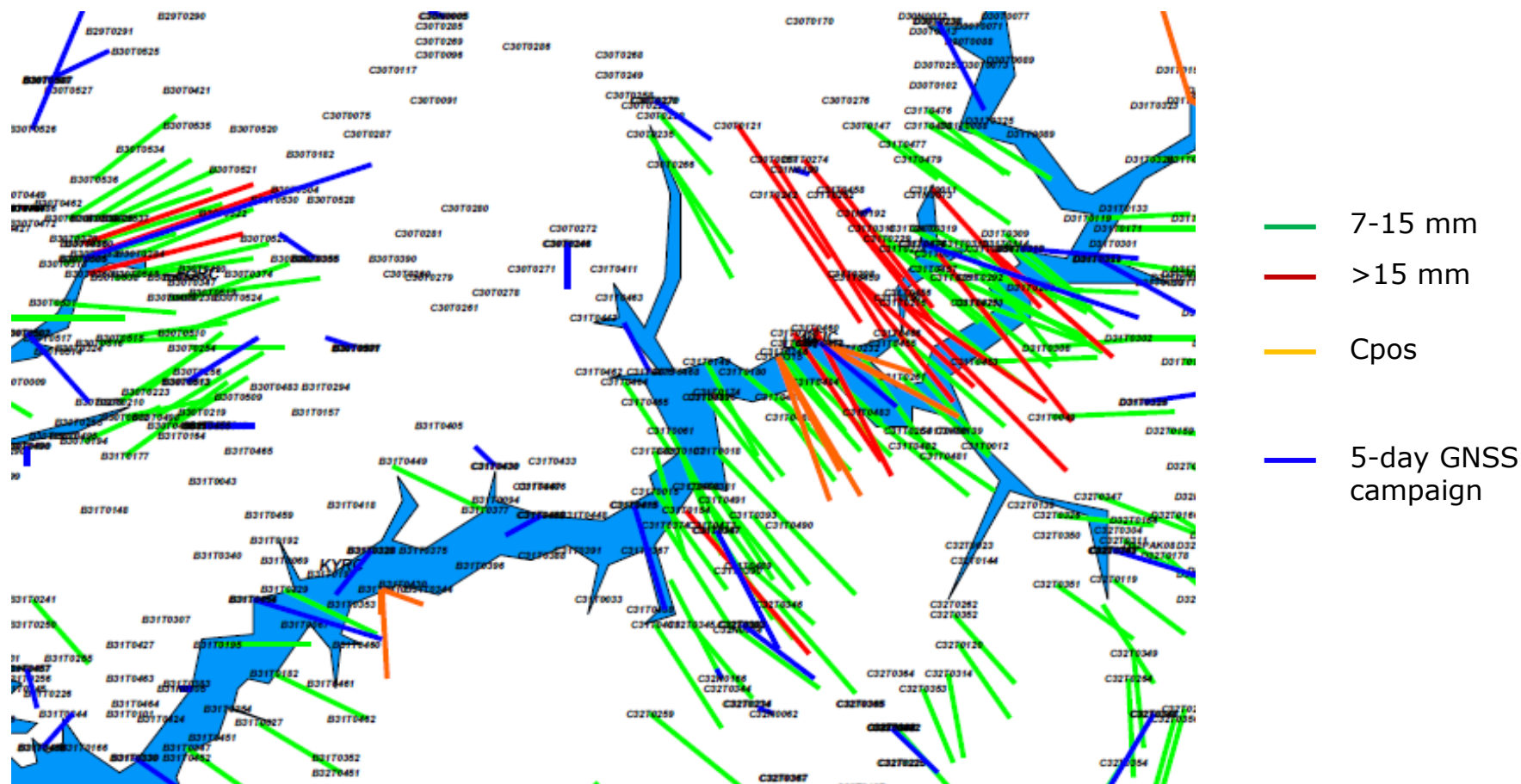
Transformation  
ITRF2008 - EUREF89



**Variations of 0 – 2 cm in EUREF89 N – E coordinates**



# Test: Original Euref89 versus Euref89 transformed from ITRF2008



Transformed minus original EUREF89 N – E coordinates

**Thank you for your  
attention!**