“Geospatial Information for a Smarter Life and Environmental Resilience”
Status of Coordinates in Norwegian Cadastre

Helge NYSÆTER, Arve LEIKNES and Leiv Bjarte MJØS, Western Norway University of Applied Sciences

- Legal status
- Accuracy
- Reliability
Legal Status of Coordinates in Norwegian Cadastre

- Legal status not defined (nor discussed) when coordinates were introduced
- Coordinates may, or may not, serve as proof in court
- Freedom of contract
  - Possible to change boundaries without registrering
- Coordinates - basis for the current cadastral map
  - No guarantee of correctness
  - Contains wrong boundaries
  - Lacking properties
Analyzing the data from selected municipalities

Different sources and accuracies

Status in central Oslo:
Red points: \( \sigma > 50 \text{ cm} \).

Probably not fit for purpose
Measurement method and accuracy

- RTK-GNSS
  - Adjustment of redundant observations
  - $\sigma < 5\text{cm}$
- Recorded with $\sigma = 10\text{cm}$
- Different practices
- Need of harmonization