

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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"Geospatial Information for a Smarter Life and Environmental Resilience"

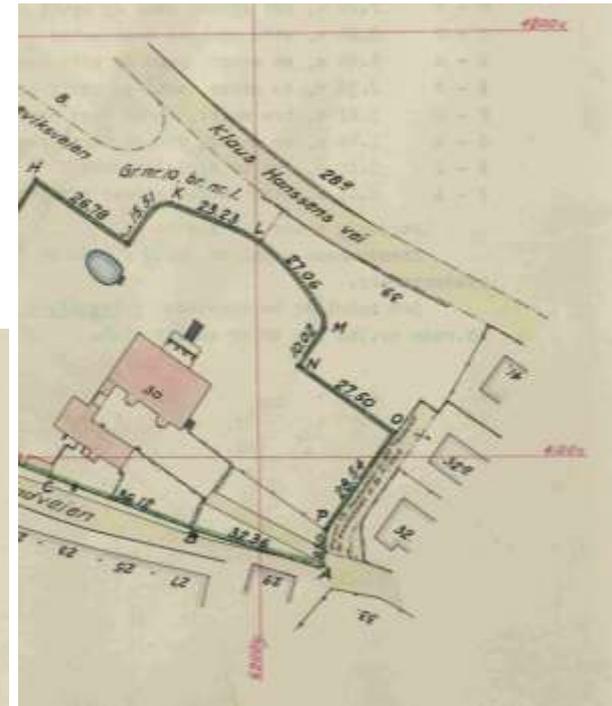


Status of Coordinates in Norwegian Cadastre

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

- Legal status
- Accuracy
- Reliability

Pkt.	X	Y
A	6915.20	4073.99
B	6884.04	4082.74
C	6850.22	4095.40
D	6799.18	4115.82
E	6798.84	4126.07
F	6873.13	4157.45
G	6935.55	4147.57
H	6847.66	4156.34
J	6869.47	4150.80
K	6880.71	4160.29
L	6901.45	4151.21
M	6916.28	4129.70
N	6910.29	4121.51
O	6932.85	4105.51
P	6916.04	4082.44



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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 registering
- Coordinates - basis for the current cadastral map
 - No guarantee of correctness
 - Contains wrong boundaries
 - Lacking properties



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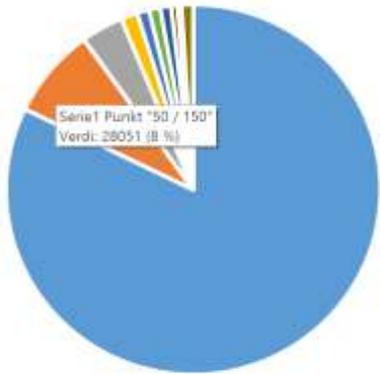
"Geospatial Information for a Smarter Life and Environmental Resilience"



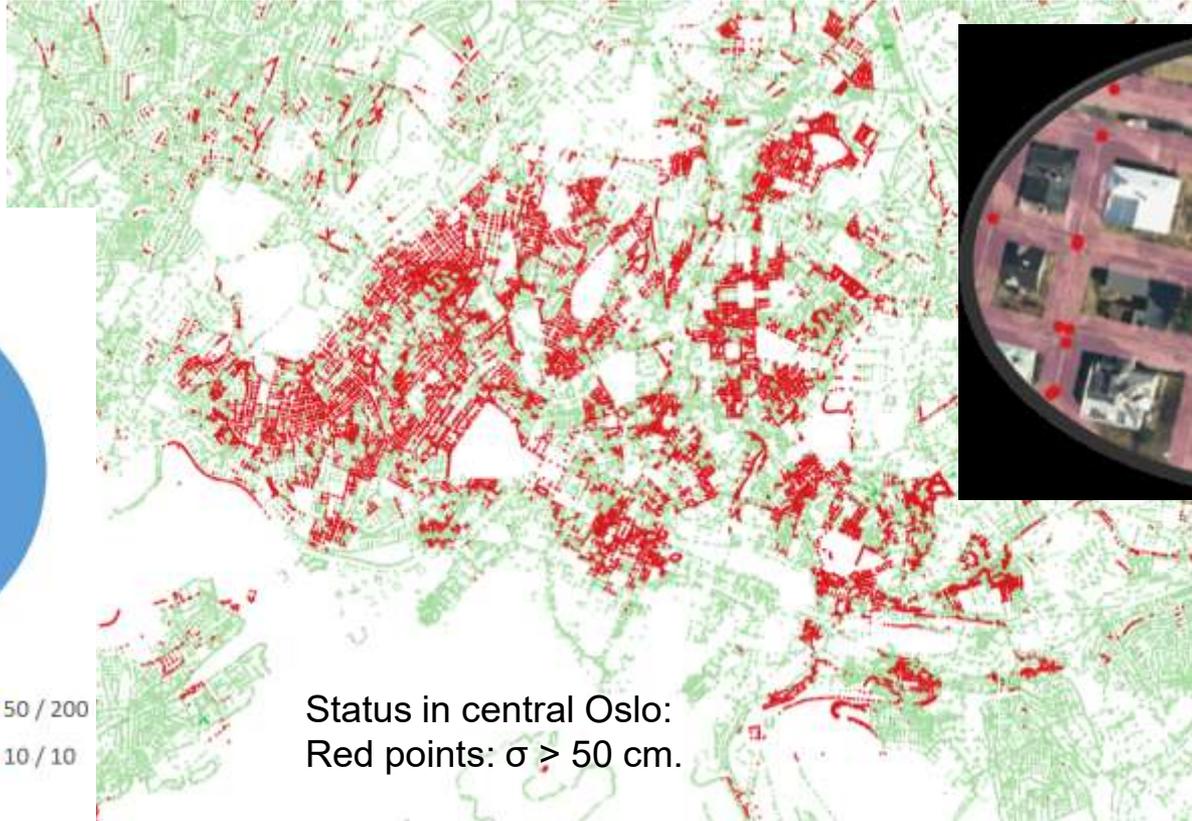
Analyzing the data from selected municipalities

Different sources and accuracies

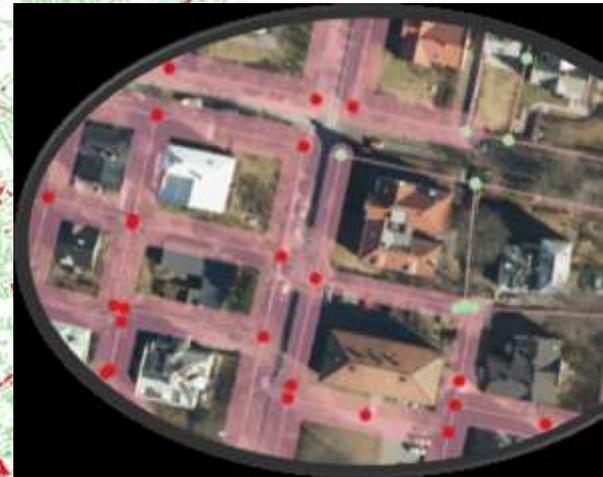
Oslo



- 10 / 8 ■ 50 / 150 ■ 50 / 100 ■ 50 / 200
- 55 / 200 ■ 77 / 8 ■ 10 / 13 ■ 10 / 10
- 55 / 36 ■ other



Status in central Oslo:
Red points: $\sigma > 50$ cm.



Probably not fit for purpose

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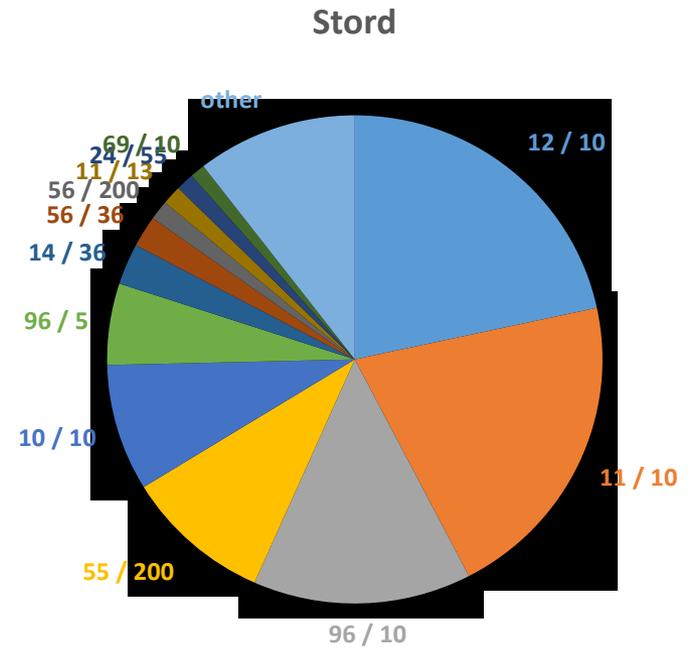
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Measurement method and accuracy

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



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THANK
YOU!



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