

DSO lessons learned from Norway on converting cars already on the road

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Help teams & DABulance



The Shops



The Shops



The Priest



16.05.2018

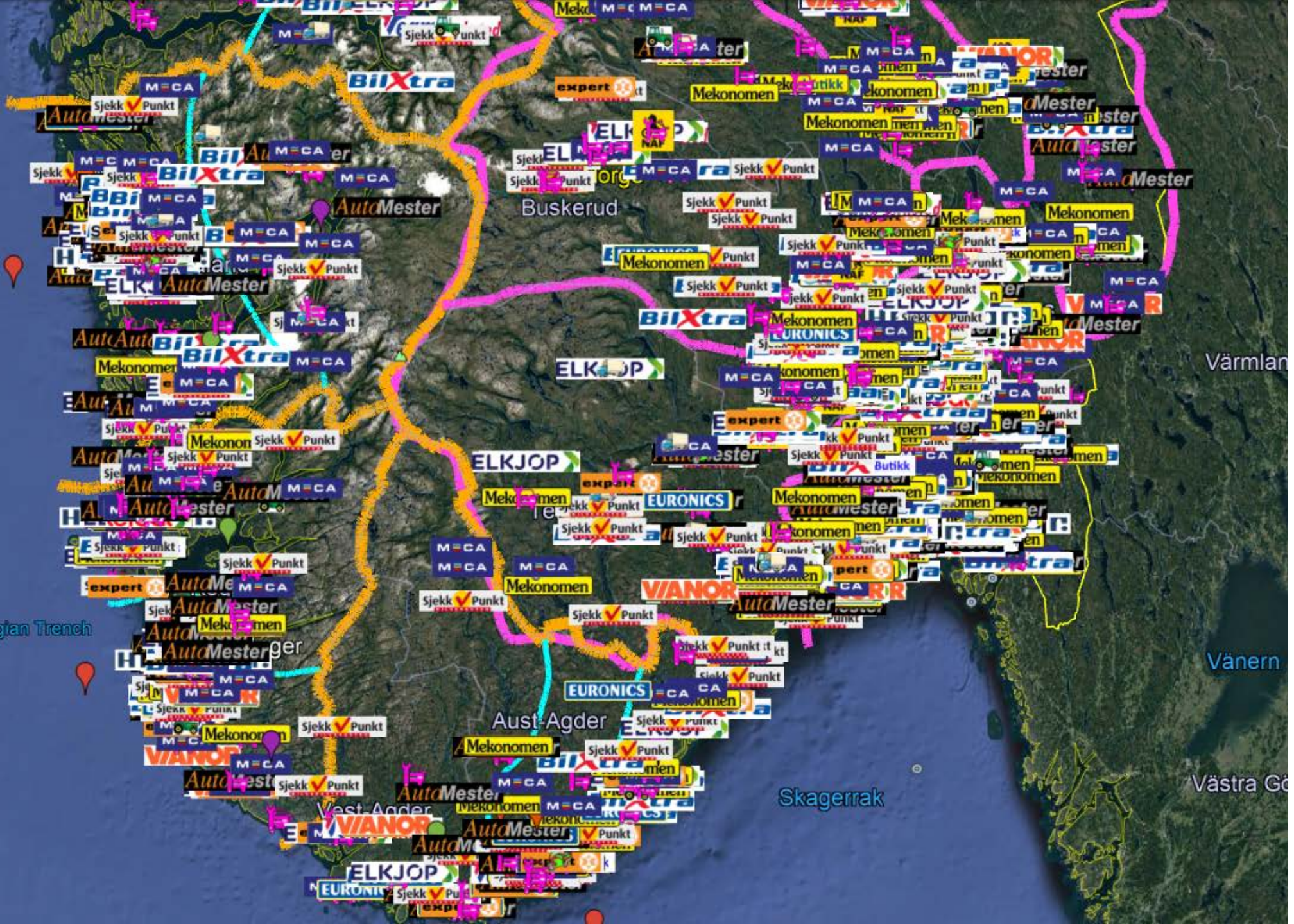


The Busdriver

The Garage



Norwegian Trench



Värmland

Vänern

Västra Götaland

Skagerrak

Aust-Agder

Buskerud

West-Agder

The Sea



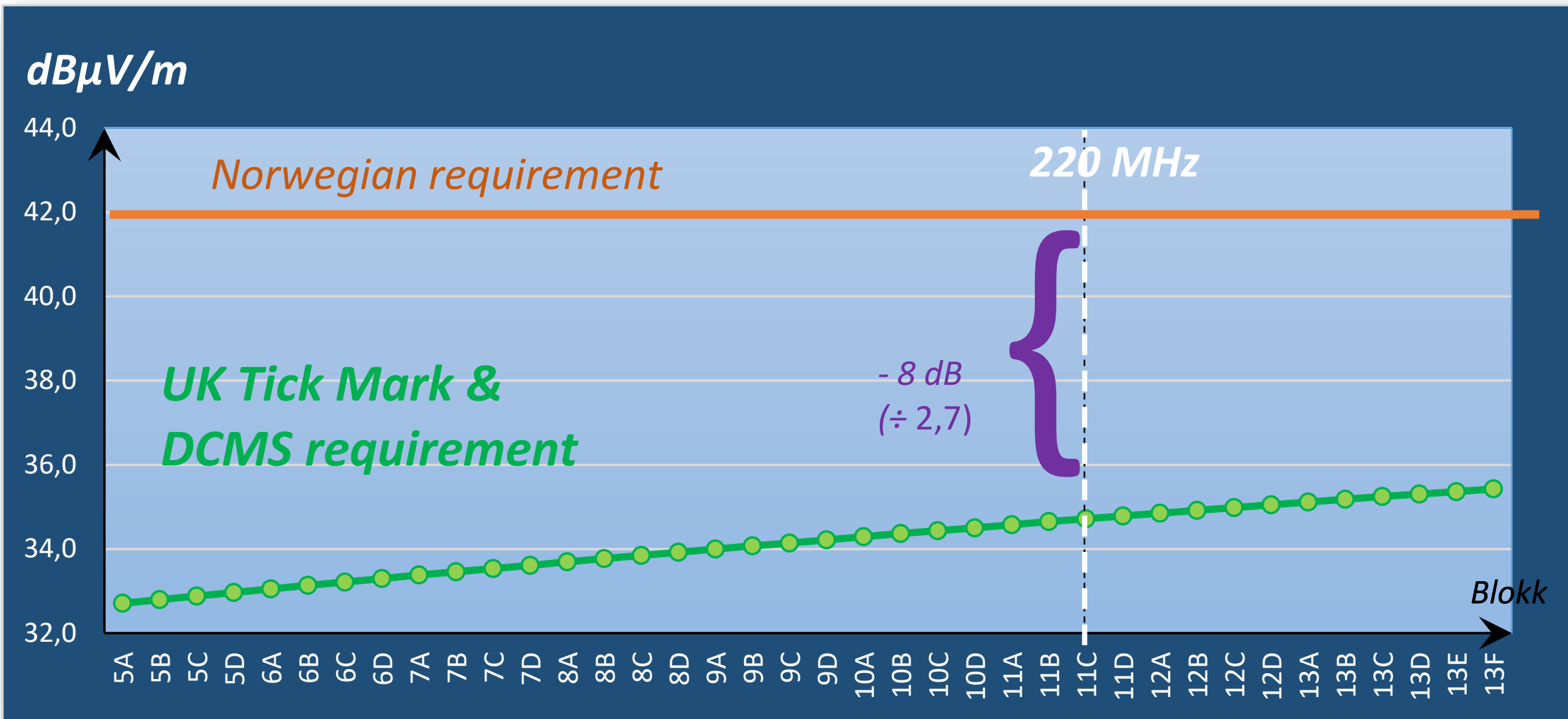


So over to
Michel

Different solutions

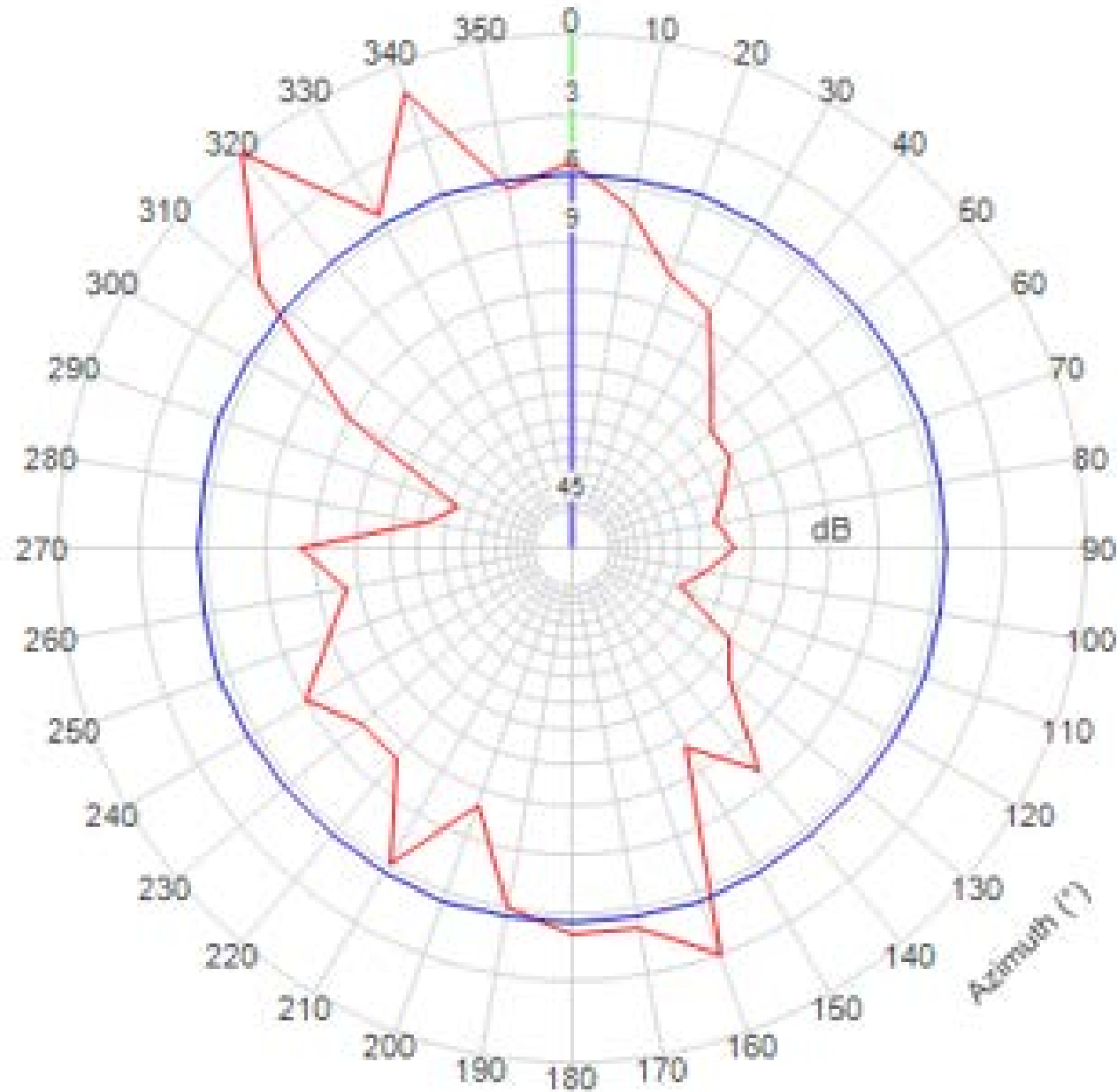






Checking if sensitivity requirements are met?

Limited performance



20-30 dB discrepancy between worst and best on the market

Not very sexy design

Fitting issues

What are the alternatives?

- **Increase the field strength?** *Costly and can't compensate for bad performance*
- **Replace them by rooftop antennas?** *Highly unpopular and costly to fit*
- **Make do with them? YES!**
- **Clean the market for the worst ones?** *Yes, definitely; if you can*

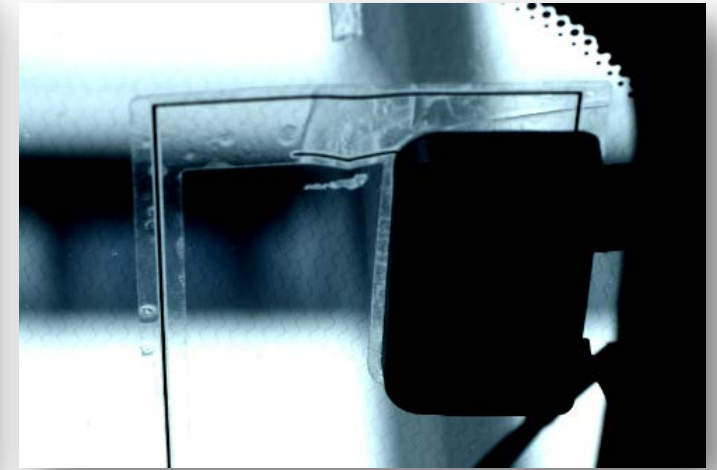
And above all, included in the pack!



Wrong polarisation



Could be positioned higher up. OK



**Heating Elements
(vertical)**



Heat Blocking film



With perpendicular heating elements, OK



No ground connection

Reception issues in lorrys, busses, motorhomes, tractors...



Using a glass antenna

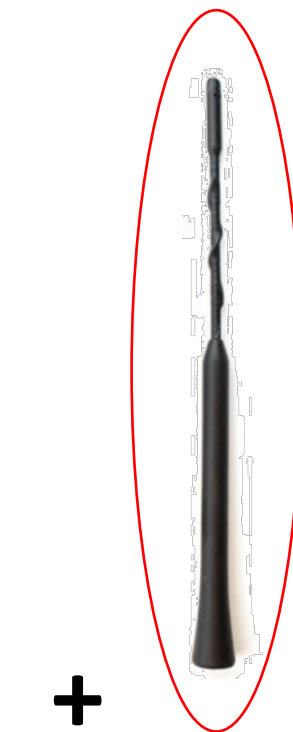


ROOF!



*FM
whip*

+



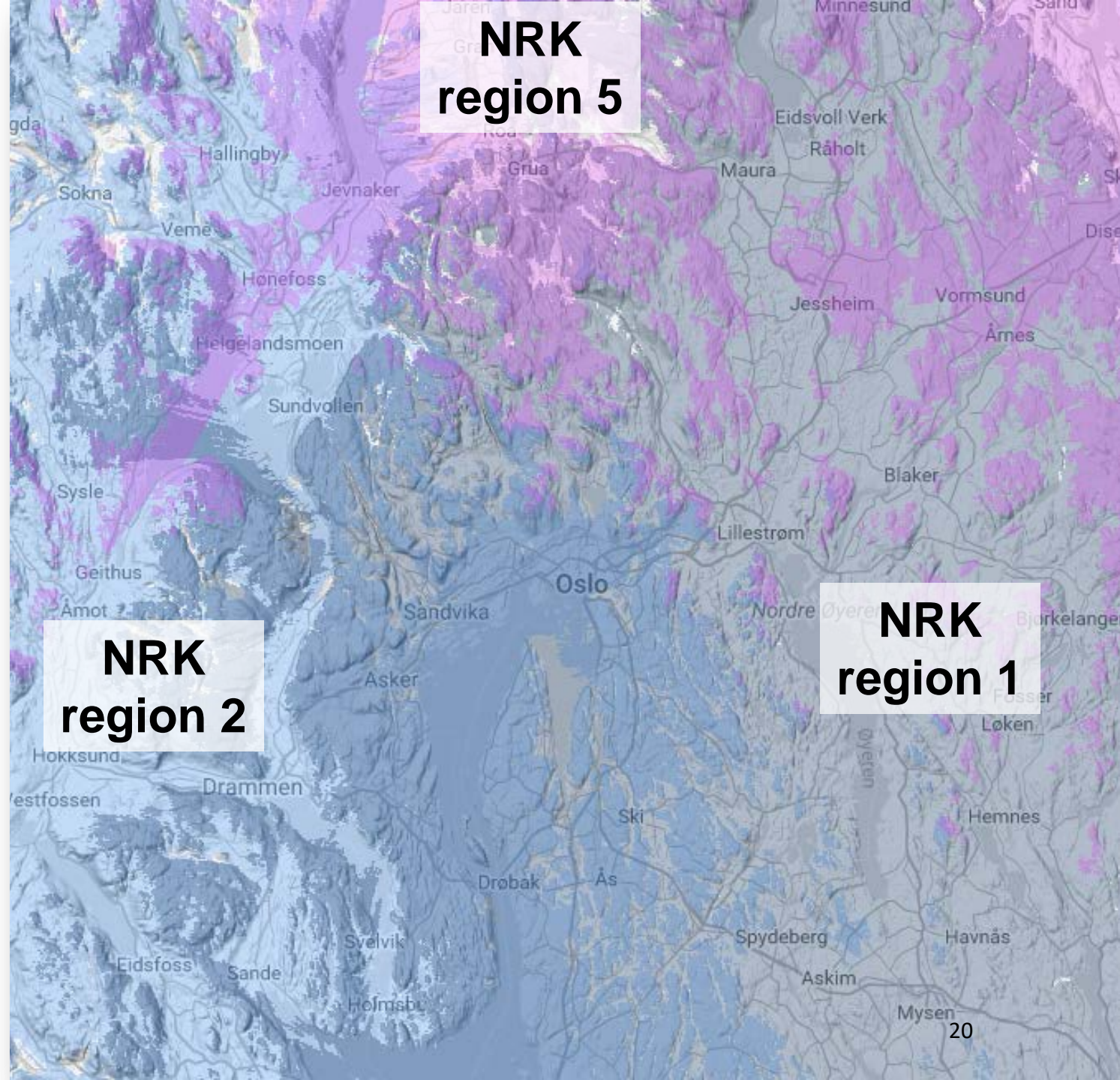
*DAB
whip*

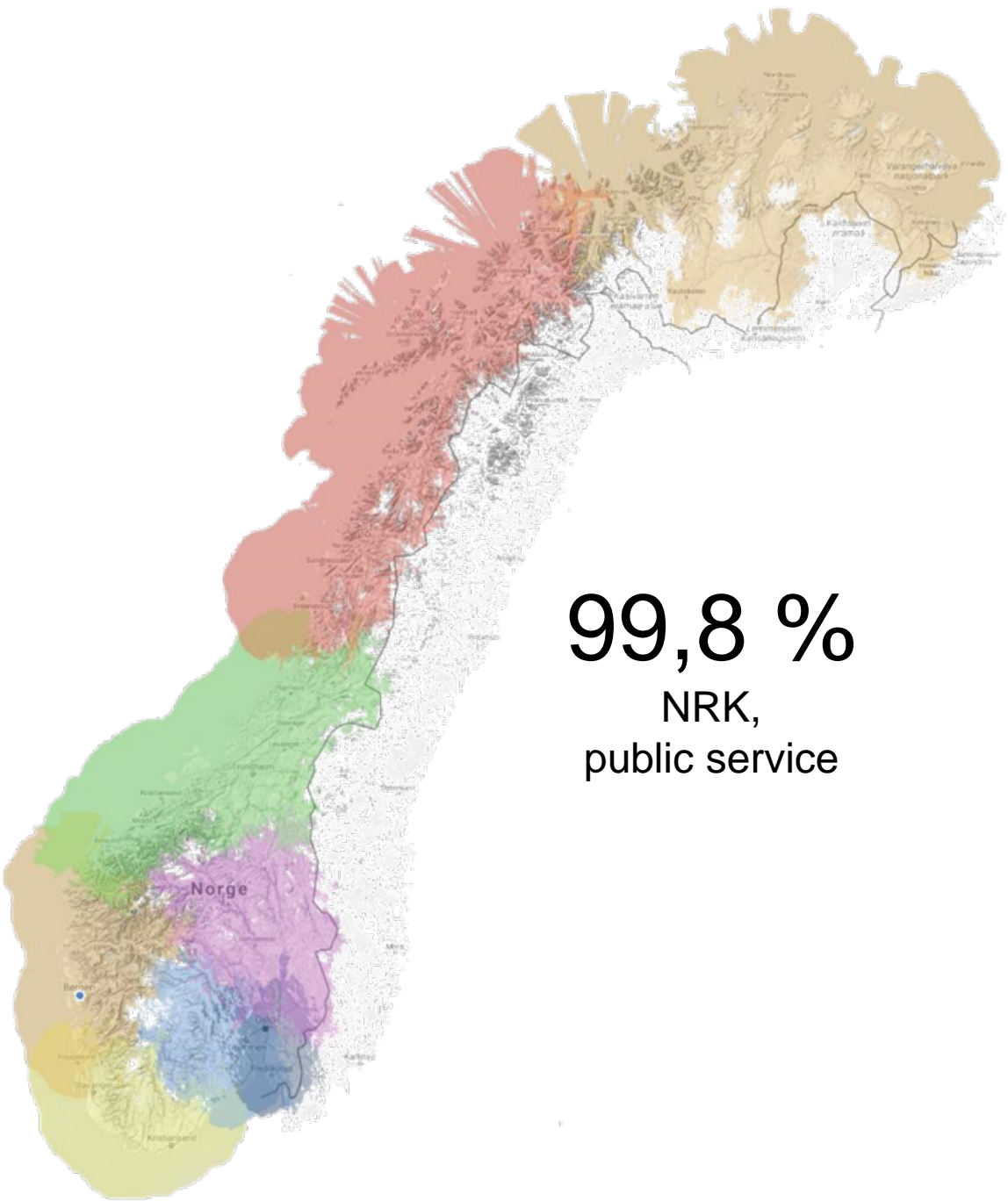
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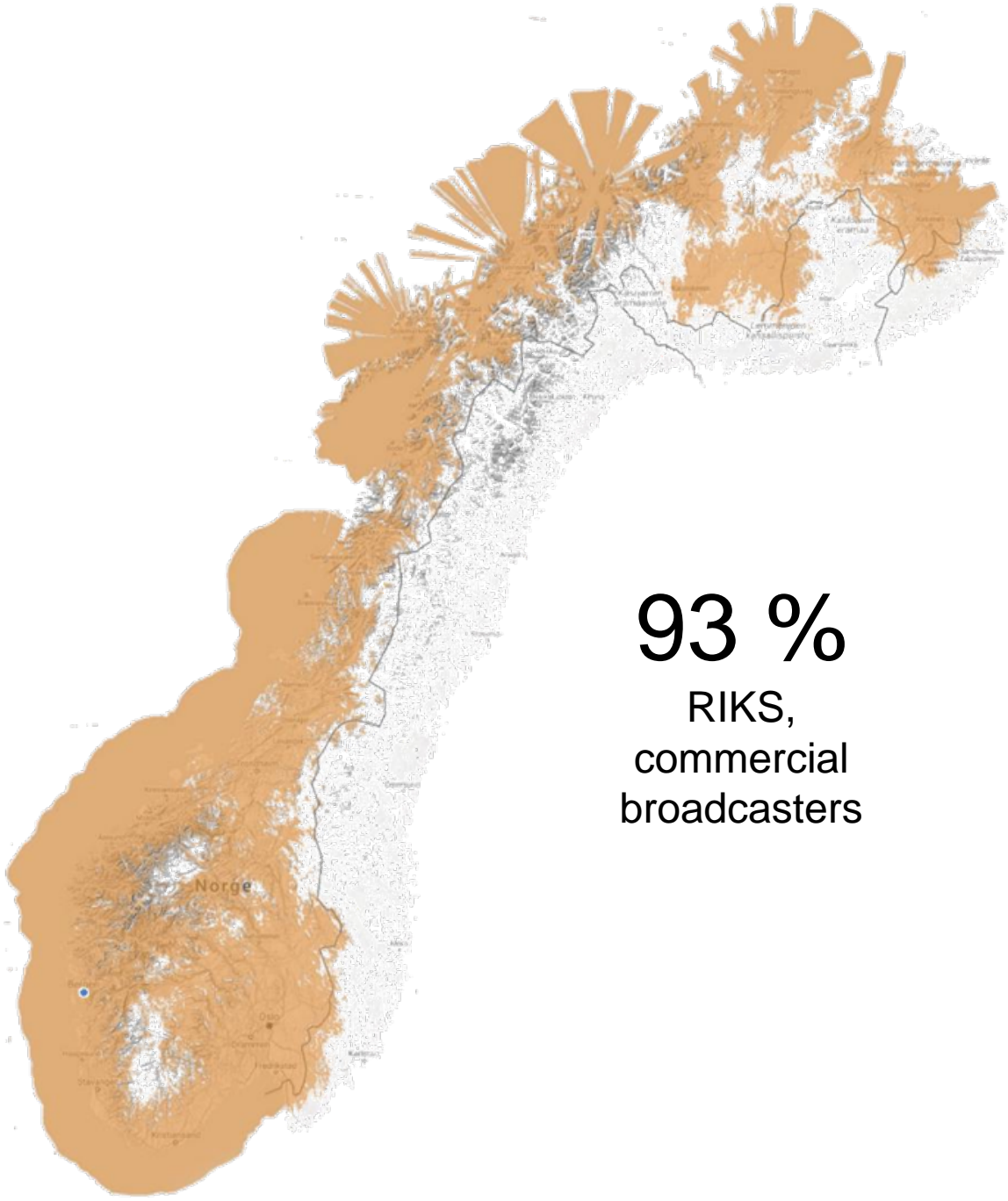
Service following and region choice

- SF support ⚠
- SF threshold ⚠
- Receivers tuning ⚠
on the wrong block





99,8 %
NRK,
public service



93 %
RIKS,
commercial
broadcasters

Thank you

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NRK

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