



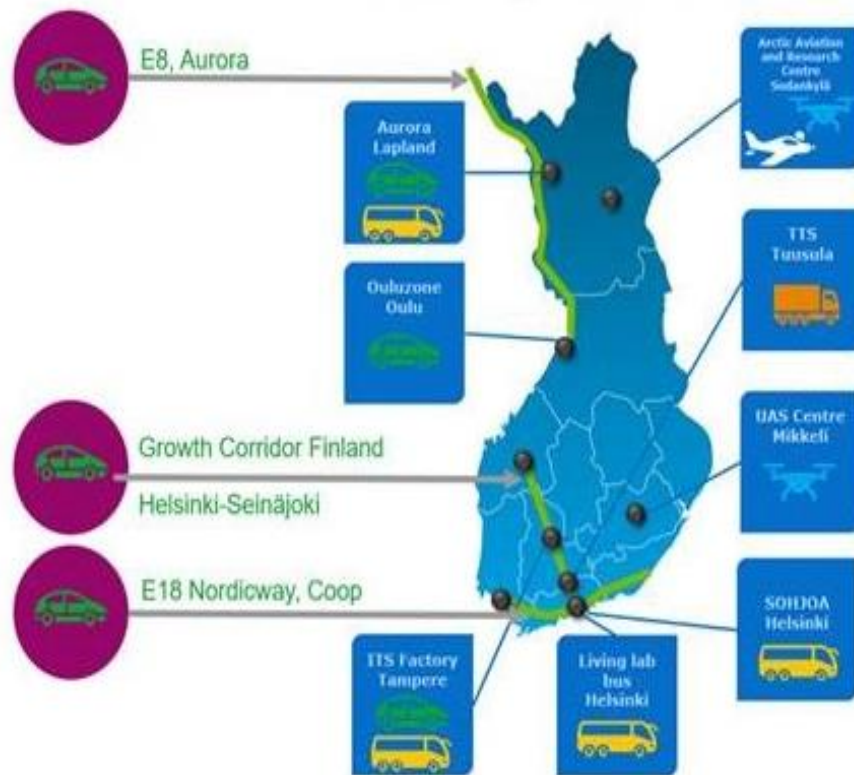
Connected and automated driving in Finland

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National Action Plan 2016-20

- Focus in actions by public sector, and SAE3-5
 - Infrastructure
 - Road
 - Services
 - Vehicle
 - Driver
- First actions related to research and testing
- Testing on open roads made easy – test plate certificates
- http://www2.liikennevirasto.fi/julkaisut/pdf8/lts_2016-19eng_road_transport_web.pdf





CAD in winter weather conditions

- Automated driving will not become widespread in regions with even occasional snow and ice without weatherproof technological solutions.
 - **Aurora – the Arctic Intelligent Transport Test Ecosystem** offers a test bed for CAD in real Arctic weather conditions.
- The Arctic Challenge programme looks into the performance of connected and automated driving in winter weather conditions.
 - Solutions to be verified by field trials done by automated vehicles (SAE level 3 or higher)



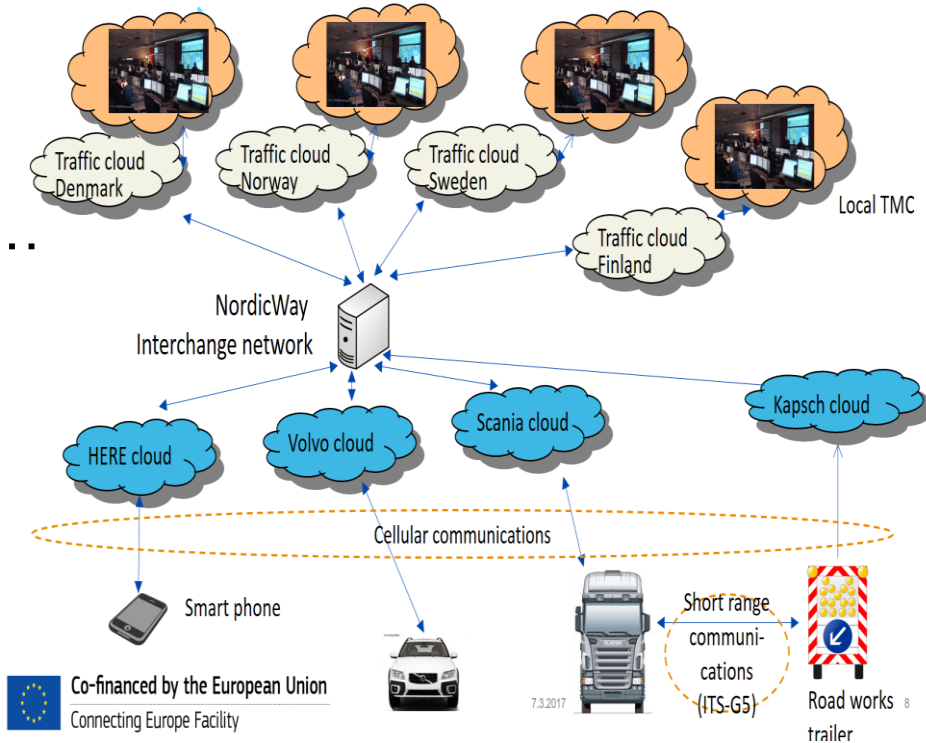
- 1 Aurora facilitates testing of automated driving, ITS and intelligent infrastructure asset management solutions.
- 2 Automated vehicle trials are allowed in road traffic in Finland.
- 3 Test ecosystem enables testing on public roads and on closed tracks.



Infrastructure aspects – the road 2.0

- Need to know what SAE level 3/4 requires from physical & digital infrastructure
 - New technologies – IoT, 5G...
- Impacts on planning, building, maintenance and operation
- Dialogue with industry is important
- Feasible solutions via testing
- Learning by doing

NordicWay architecture – all about clouds





Thank you!

Antti Vehviläinen
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