



NordicWay2



Erik Olsen
Norwegian Public Roads Administration
NordicWay 2 Coordinator



NordicWay2 objectives

Pilot deployment of interoperable Day 1/1.5 C-ITS and support infrastructure readiness for connected and automated driving

Contribute to harmonisation and interoperability of C-ITS in Europe

Support deployment of new Day 1 and 1.5 C-ITS services on CEF and rural roads

Support infrastructure readiness for connected and automated driving

Assess socio-economic impacts of Day 1/1.5 C-ITS including mobility, behaviour, acceptance



Currently 60 public and private NordicWay2 partners



















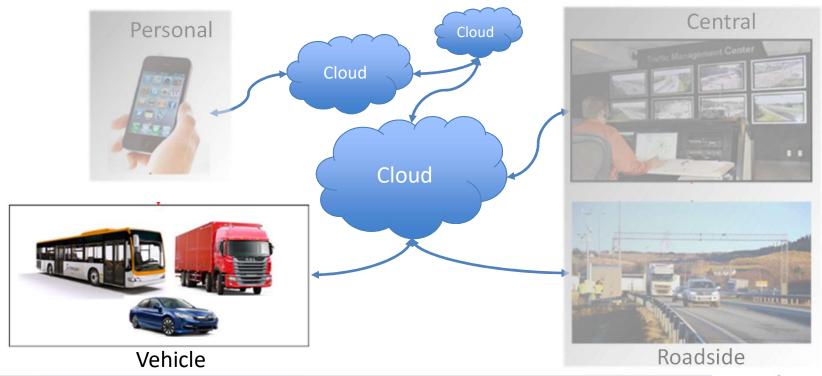


NordicWay2 network coverage

- Existing 3G and 4G/LTE cellular network as a backbone for the C-ITS hybrid communication
 - Cellular network with complete coverage of the main road network and major parts of the total road network. Exceptions in the rural roads up north.
- ITS-G5 case specific installations, such as RWW, TMA or hotspot, testing e.g. in arctic conditions by the industry



NordicWay2 & C-ITS Architecture





NordicWay Interchange Network

- NordicWay interchange node successfully demonstrated in the ITS World Conference 2018 in Copenhagen
- National NordicWay2 Interchange networks:
 - Swedish NordicWay Interchange available for testing and demonstration (thousands of DATEX and DENM messages and 4 million SPAT/MAP messages daily), around 15 service providers/OEM/cities
 - Finland to have three interchange nodes running in 2019. Ecosystem of 20 existing industry C-ITS service providers
 - Norwegian Interchange Node up and running
 - Denmark connected to Interchange Node receiving and transmitting data



NordicWay Interchange network

- Open software solution free to use for any future Interchange supplier
- Access to transport related data
- Scalable for huge amounts of data
- Facilitates simple onbording of new data consumers and producers
- Easy for public and private actors to exchange data without knowing where the information is located.
- Supports interoperability





Some final reflections

- C-ITS Regulation
- ITS G5 vs Cellular.
 - The Nordics need both → Hybrid communication
- Privacy
- Interchange network in NordicWay3
 - Coordinated pilot on Central systems and interchange network
 - Building, operating and maintaining the federated interchange nodes as close to deployment as possible



C-ITS for Nordic challenges







Facility of the European Union

Thank you



NordicWay2 coordinator

Erik Olsen erik_olsen@vegvesen.no

See our web site: www.nordicway.net





