



Best and Innovative Practices in Europe for Road Mobility Final event of the Web ITS Forum 30th November 2021



NordicWay 1-3, innovative corridor projects generated by NEXT-ITS to pave the road for more advanced future deployment

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Bottom line

- Regional cross border ITS deployment cooperation is an asset
- It can also be an important facilitator for innovative initiatives
- Bridging the gap between development and deployment





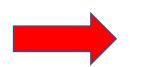


Background

Discussion within the NEXT-ITS community

- How to prepare for new innovative deployments?
- How to adress the connected vehicle?
 - Specifically in a nordic countries context
- What cooperation schemes will be necessary

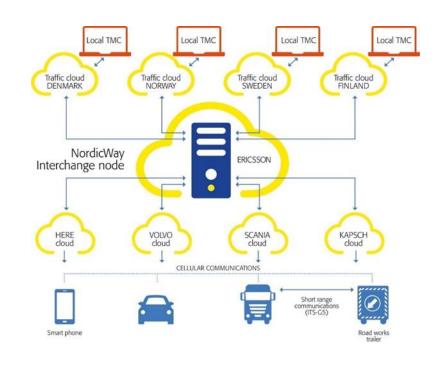
A new initiative





NordicWay 1







NordicWay 1



- An interoperable cellular cloud-based C-ITS solution, scalable to Europe and beyond
 - Full road network C-ITS coverage
 - Innovative services for the mobility of people & goods
 - New possibilities of organising traffic to optimize the use of existing infrastructure
- An eco-system supporting the OEMs and service providers costumers relationships as well as existing privacy and security solutions
- Sufficient latency for most Day 1 C-ITS
- Services well accepted by users
- High benefit/cost ratio







NordicWay 2 is a collaboration between public and private partners in Finland, Norway, Sweden and Denmark

Co-financed by the European Union within the Connecting Europe Facility programme 2017-2020



Strategic approach



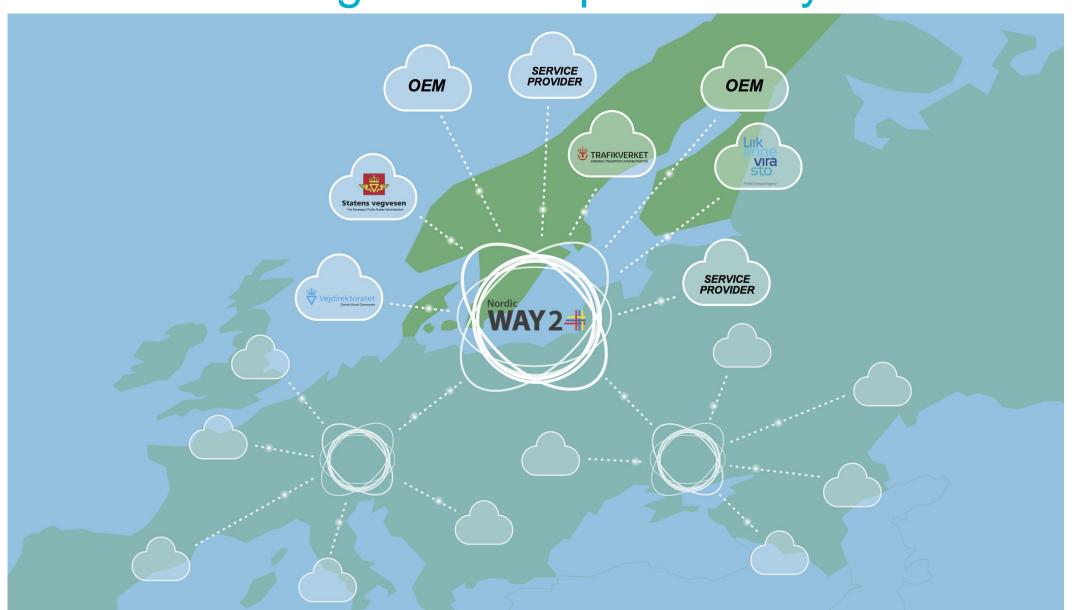
- The connected vehicle A functionality in the transport system
- Can facilitate a wide range of services
- Thus a substantial potential to improve transport system performance in terms of efficiency, environmental aspects and traffic safety.

NordicWay approach

- Take advantage of cellular networks (long range communication)
 - Avoid road side installations
 - Better area (road network) coverage
- OEM channel to the car
- Information exchange back-end (interchange node)
- Short range communications as case specific solutions if necessary
- Cross-border cooperation and European cooperation

Scalable throughout Europe and beyond





Piloting and expansion



- NW1 Communication through cellular network
- NW2 National pilots testing C-ITS services
- Cooperating Ministrys and Administrations providing beneficiaries
- Introducing implementing bodies
- Cities
- More industrial partners
- All in all a broader cooperation (From 4 to 13 external partners in Sweden)
- More services

NordicWay 3 Urban Connection

WAY3#

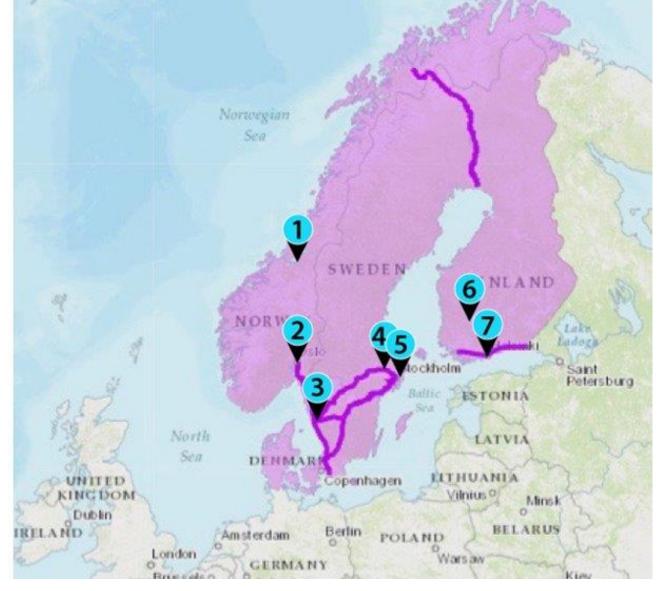
- NordicWay 3 is a collaboration between public and private partners in Finland, Norway, Sweden and Denmark
- Co-financed by the European Union within the Connecting Europe Facility (CEF) program managed by INEA, 2019 -2023.





Cities involved

- 1. Trondheim, Norway
- 2. Oslo, Norway
- 3. Gothenburg, Sweden
- 4. Uppsala, Sweden
- 5. Stockholm, Sweden
- 6. Tampere, Finland
- 7. Helsinki, Finland



NordicWay 3



- NW1 Communication through cellular network
- NW2 National pilots testing C-ITS services
- NW3
 - Aims to get C-ITS services to deployment through coordinated pilots across countries and cities
 - Further develop the role of the cities, investigating roles and processes in the ecosystem of C-ITS

- Cooperating Ministrys and Administrations providing beneficiaries
- More implementing bodies (FI: 6 and SE: 24)
- More cities
- More industrial partners



NordicWay 3 – Urban Connection

C-ITS pilot

Enables vehicles, infrastructure and network operators to communicate safety hazards and other information between different stakeholders.



Credit: Carmenta



NordicWay 3 aims for deployment

NordicWay 3 has the ambition to take the services piloted as close to deployment as possible.



Credit: Volvo Busses AB

NordicWay 3 Flagships



NordicWay 3 **flagship pilots** are coordinated C-ITS pilots with mature technology and with full cross-border functionality and are implemented at several sites in the Nordic countries.









Traffic signals

Emergency
Vehicle Warning

Road Works Warning Geofencing & Dynamic zones

NordicWay 3 Interchange



Pilots communicate through the NordicWay federated Interchange Network and use mainly cellular communication to the end users.



