C-ROADS

Nordic WAY 2

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Picture: Wikimedia Common, S. Solberg J.

Focus: Services for the Nordic conditions

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NordicWay 2 - Vision

- **Enhanced traffic safety** and fluency as well as reduction of CO_2
- **Interoperable solutions and services suitable for Nordic conditions** (road conditions, cellular coverage, traffic problems/needs etc.)
- Services with potential to cover entire Nordic network and reach high penetration **without large infrastructure investments** (i.e. cellular communication)
- **Scale up C-ITS services** - by supporting cloud to cloud hybrid communication

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NordicWay 2 – 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 Day 1 and 1.5 C-ITS services on corridor and rural roads
- Support infrastructure readiness for connected and automated driving
- Assess impacts of Day 1/1.5 C-ITS services including mobility, behaviour, acceptance

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Scalable throughout Europe and beyond

Nordic competence is used to solve problems caused by northern and winter conditions to automated transport

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ARCTIC CHALLENGE AURORA BOREALIS

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E8, a piece of northern Norway

We can not live with such a situation on a major export route from Norway

Source: picture search - E8 HGV Accident

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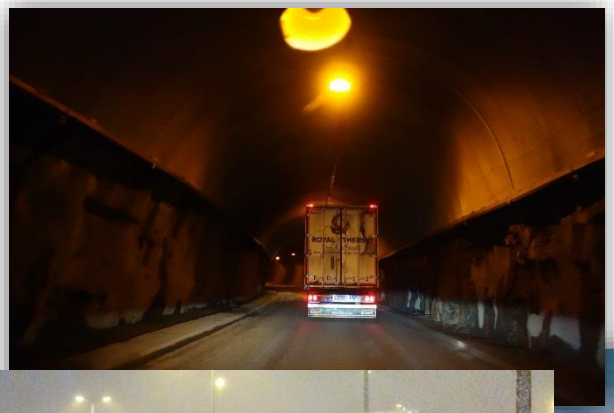
Some Nordic challenges

Nordic WAY 2



Norway:
15000 HGV incidents per year

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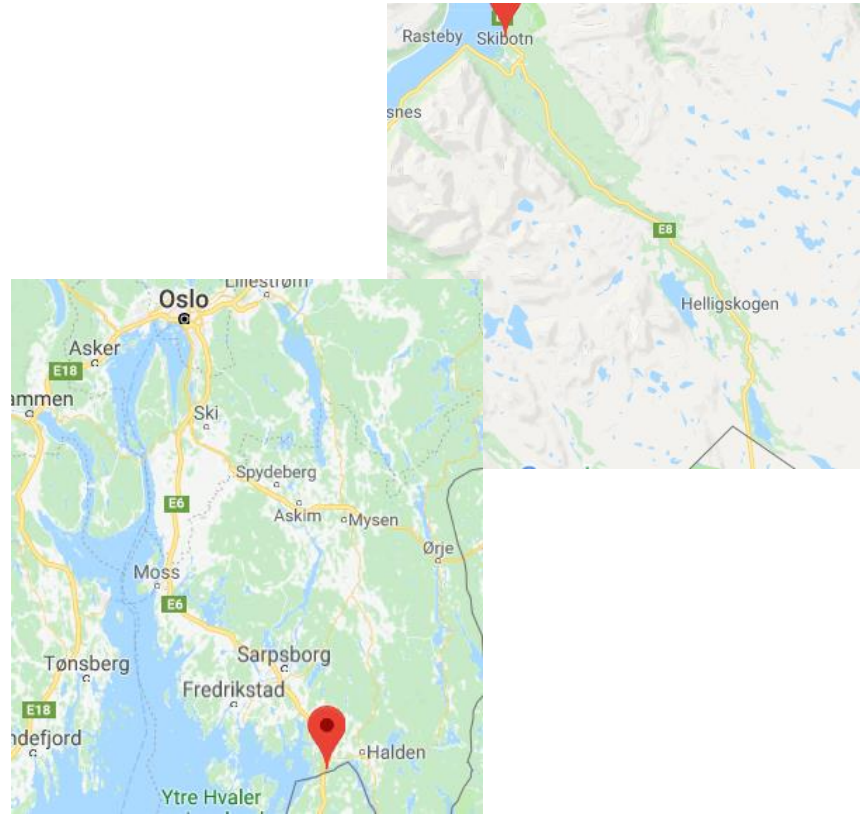
Norwegian C-ITS Pilot
Main focus areas

- Feasibility of the services will be explored mainly on E8 in the Skibotn valley
- Use cases for the C-ITS services sometimes need to be adjusted in order to fit with the subarctic conditions
- Some services will be demonstrated on E6 Oslo to Svinesund: Queue spillbacks from ramps and cooperative collision risk warning



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Swedish pilot – Highlights

Task 7 - Dynamic access control of designated infrastructure

C-ITS related service: Connected & Cooperative navigation into and out of the city

Develop and test a system for active traffic management that create possibility for more efficient use of existing infrastructure by navigating vehicles that fulfill preset requirements into lanes with free capacity

Test site: Stockholm
Partners: Scania, Technolution, CLOSER & Trafikverket

Task 8 - Smart routing based on infrastructure policy

C-ITS related service: Traffic information and smart routing

Pilot geofencing technology where hybrid cars automatically shift from hybrid mode to electric mode when accessing a dynamic environmental zone. Further, if the trip through a low emission zone is known in advance the vehicle can itself charge the battery and be able to drive through the low emission using only electric drive

Test site: Gothenburg city
Partners: Volvo Car Corporation, Gothenburg city, CLOSER & Technolution

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Danish Road Directorate

TRAFIKVERKET
SWEDISH TRANSPORT ADMINISTRATION

Statens vegvesen
Norwegian Public Roads Administration

Trafi

Liikennevirasto
Finnish Transport Agency

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ITS Perception™

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Aventi

TRIONA

PSI

EUROSKILT

Q-FREE

bouvet

NORCE

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