

# Cloud-to-cloud vehicle connectivity improves road safety



NordicWay is a pilot project that enabled vehicles to communicate safety hazard warnings through cellular networks in Finland, Norway, Sweden and Denmark. The project is a collaboration between public and private partners in the four countries, co-financed by the European Union within the Connecting Europe Facility program 2015-2017.

**NordicWay includes**  
**1** C-ITS corridor  
**4** countries: Denmark, Finland, Norway and Sweden  
**1,850** users on Nordic roads

**NordicWay pilots**  
**3** core Safety Related Traffic Information (SRTI) services:  
 1. cooperative hazardous location warning  
 2. cooperative weather and slippery road warning  
 2. Road works warning  
 + probe data services

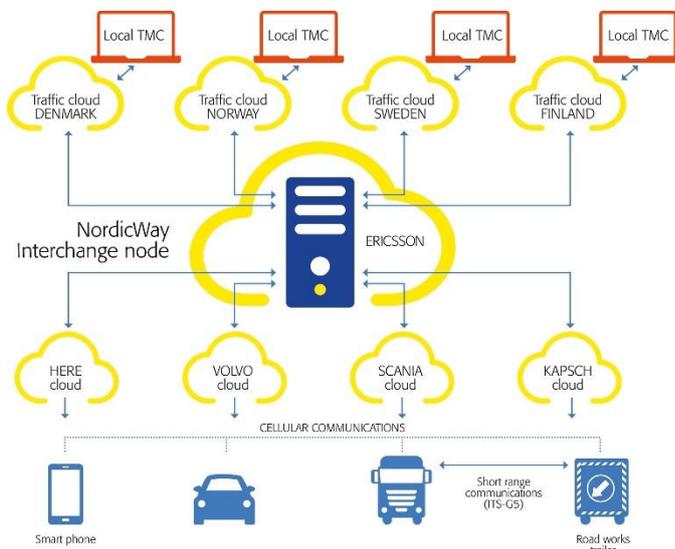
**NordicWay demonstrates the concept of cellular/hybrid C-ITS**  
 service utilising **3G and 4G/LTE** communication

**NordicWay offers road users safety and interoperable services and builds a business model and an ecosystem**  
 for the data value chain and stakeholders

Co-financed by the European Union  
 Connecting Europe Facility

## Data shared via Clouds

Drivers, cars and trucks connected via cellular networks shared specific and low latency road safety information regarding e.g. obstacles on the road, weather conditions, road works, slippery surfaces and accidents. Voluntary drivers of about 1 850 vehicles were connected and shared information with other vehicles on the road and the traffic management centres of the four countries using cloud-to-cloud communications. This was made possible by the main innovation of project: the NordicWay Interchange concept.



*The NordicWay Interchange network*

## **Improved safety without extra investments**

The NordicWay Final Event organized in Brussels on 21 November 2017 summed up the results of the project. The technical evaluations and demonstrations carried out in the different countries as well as at Norwegian-Swedish and Danish-Swedish borders show that the Interchange concept works in a fast, secure and effective manner, and it can be easily applied and extended anywhere in and outside Europe. A short video explains how it all works: <https://www.youtube.com/watch?v=gTrrl4ymvyc>

“It is remarkable that the assessments indicate clear improvement of road safety and reductions of accident-related delays on road networks, and that all of this was accomplished with no additional investments in roadside communication infrastructure”, project coordinator Professor Risto Kulmala from Finnish Transport Agency points out.

## **Further on the way**

Building on the success of NordicWay, the partners are now continuing collaboration in the NordicWay 2 project. The continuation will bring more services to more users on a larger part of the road network. This time also cloud-to-cloud connectivity for automated driving is addressed.

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