

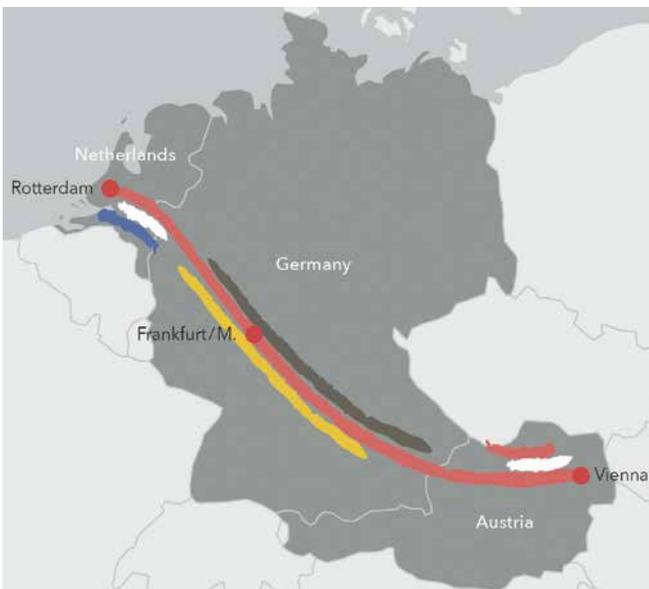


Rijkswaterstaat
Ministry of Infrastructure and the
Environment

Cooperative ITS Corridor

Cross-border intelligent mobility

Every day, Rijkswaterstaat works on safe mobility in the Netherlands. We do that not only by building new roads and waterways, but also by using the existing infrastructure more efficiently. Smart technology helps us to realise that. The development of Intelligent Systems (ITS) will continue over the coming years and offer opportunities to road users, road operators and Dutch businesses. Rijkswaterstaat is currently working on the introduction of two cooperative ITS services as part of the Cooperative ITS Corridor project.



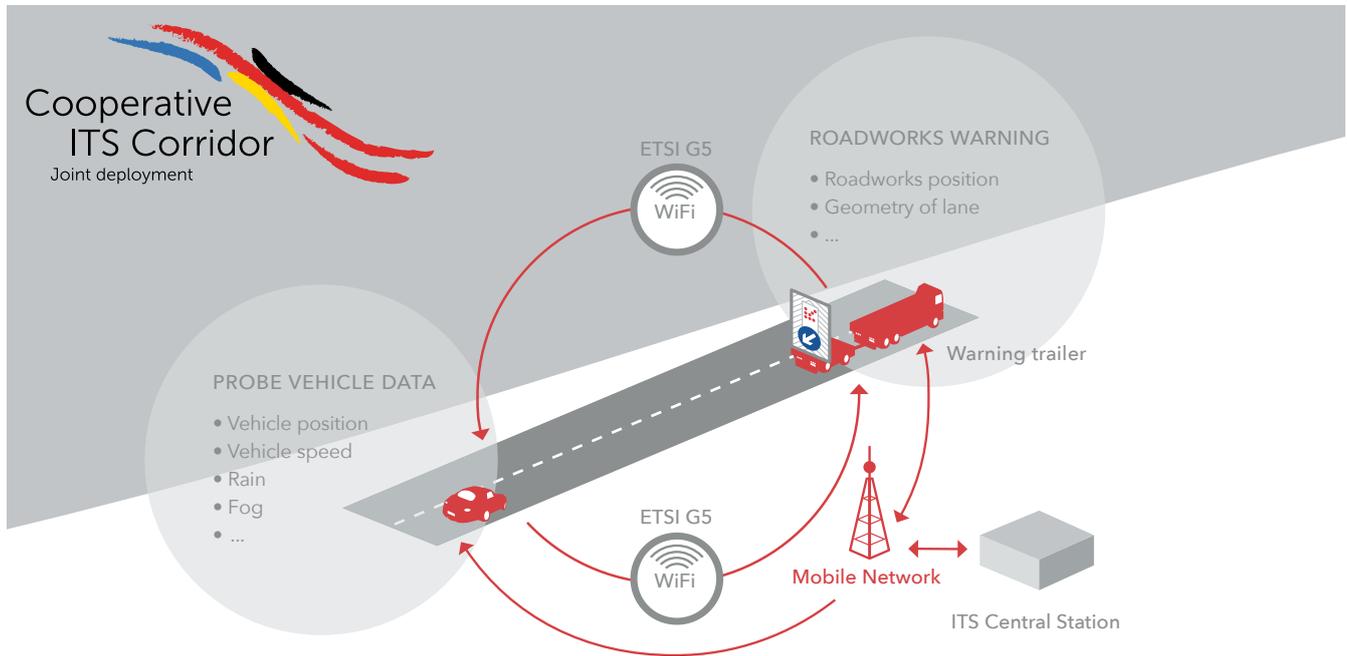
Cooperative ITS services provide wireless links between vehicles and the road infrastructure. This enables them to cooperate and provide an efficient and safe traffic system. ITS services will become more and more important in future. The Cooperative ITS Corridor project will provide two cooperative ITS services on the Rotterdam – Frankfurt – Vienna corridor. In the Netherlands this includes the route between Rotterdam and Germany, via Breda, Tilburg, Eindhoven and Venlo (motorways A16, A58, A2 and A67). The busy and highly developed road network in the Netherlands provides an excellent setting to develop and implement large-scale intelligent mobility in Europe.

Two services, many advantages

The Road Works Warning service uses a secure and dedicated WiFi connection to provide drivers with detailed and timely information about road works. The Probe Vehicle Data service enables vehicles fitted with new in-car equipment to provide traffic information centres with anonymised information about road and journey conditions. These services contribute to greater safety, fewer incidents and traffic jams and more efficient use of the road network, and therefore help to reduce CO₂ emissions. The project does not only focus on the introduction of these two services. It primarily aims to provide a basis for a range of other cooperative services which will appear in a few years.

Cooperative ITS Corridor

Joint deployment



Roadside hardware

To provide these services, Rijkswaterstaat will install beacons along the route. These beacons communicate with the on-board units of approaching vehicles using WiFi. In the future, car manufacturers will equip their vehicles with On Board Units as standard. The beacons also communicate with the traffic information centre. Beacons may be mobile or fixed. For example, mobile beacons will be fitted to information display vehicles used by road operators during road works. Fixed beacons will be linked to existing roadside systems.

International agreements

The project is based on a cooperation agreement (Memorandum of Understanding) between the Netherlands, Germany and Austria. Technology for cooperative services has been developed in several countries in recent years, based on a number of research and development projects. With the Cooperative ITS Corridor project, Austria, Germany and the Netherlands are taking the first step towards the international implementation of cooperative services. This demands close cooperation among all stakeholders and continuous liaison between the countries. The roll out of the services will make a major contribution to the development of Smart Mobility in Europe. This project will bring the future closer.

Working together with suppliers

The Netherlands wants innovative systems for travel information and traffic management to become available on a large scale - both in the Netherlands and elsewhere. This will not only benefit road users and road operators, but also suppliers and therefore the Dutch economy. In the Netherlands, Rijkswaterstaat will undertake the project in cooperation with suppliers who will provide roadside equipment and after-market devices to deliver the services.

What is the current status?

In 2015 Rijkswaterstaat prepared the initial specifications for the Road Works Warning service, in consultation with interested suppliers. The basic technology was successfully tested in practice during several demonstration projects. The year 2016 will be devoted to pre-deployment and to further refine the specifications. The Road Works Warning service will be tested in practice at several road sections, over a longer period. Not only in the Netherlands, but also coordinated across the borders.

Time frame

2015	Research stage
2016	Pre-deployment: refinement of the specifications and extensive testing
End of 2017	Start of the tender proces
2018	Operational services

For more information

Do you want to learn more about the project or contribute to the development of these two cooperative services as a supplier? Then visit www.its-corridor.nl or contact the Rijkswaterstaat project team: c-its-corridor@rws.nl.

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For more information go to www.rijkswaterstaat.nl/en

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