



1500 m

Cooperative Intelligent Transport System Roadworks Warning Rollout

Perceive dangers before you see them

This vision of safe and intelligent mobility will be realised through the introduction of Cooperative Intelligent Transport Systems (C-ITS). These enable direct communication between vehicles, road-side traffic control technology and traffic centres. In order to safeguard cross-border interoperability, related services are currently European-wide harmonised and therefore their implementation is co-funded by the European Commission.

The general goals of C-ITS and related services are:

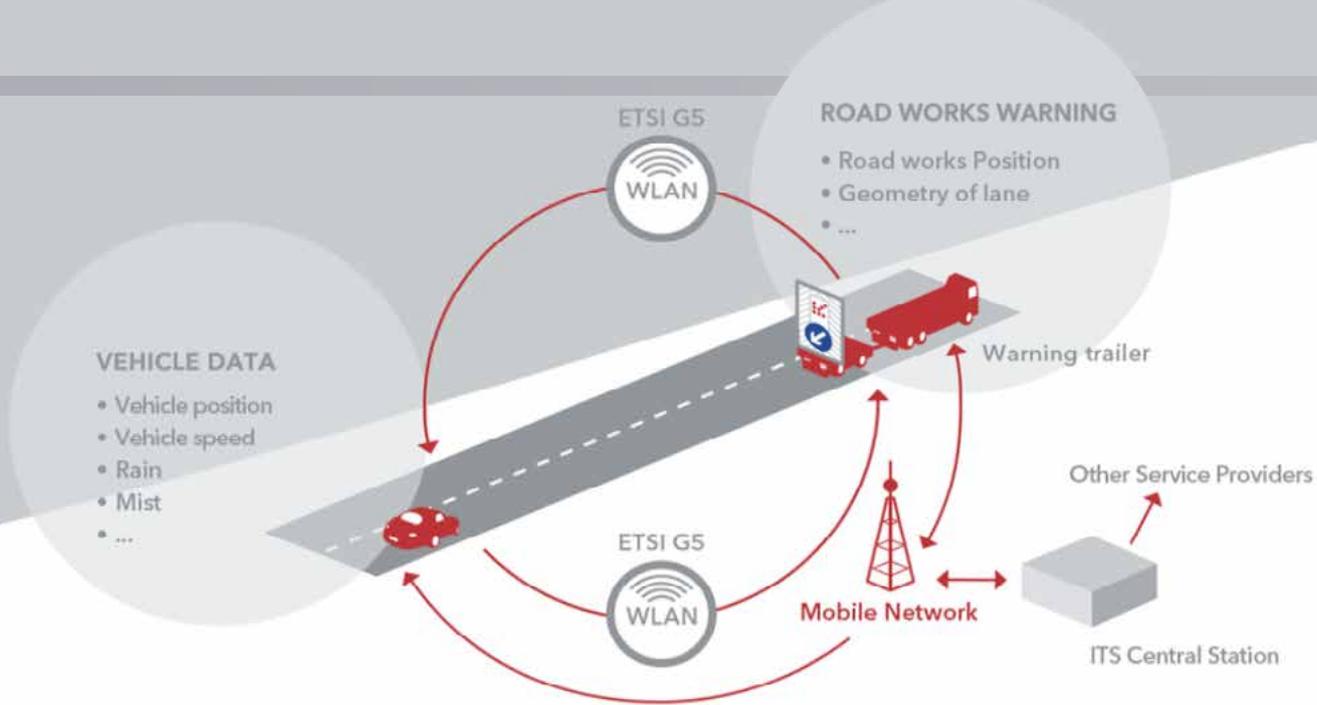
- Increase traffic safety via information regarding potential hazards in advance;
- Reduce congestion;
- Improve traffic flow;
- Reduce CO2 emissions;
- Improved knowledge of traffic situation by processing precise information from vehicles.

Roadworks warning first

Roadworks Warning (RWW) is the first C-ITS Service (one of the so-called Day-1 service) that will be transferred to normal operation and realised nationwide. The service aims primarily to reduce the number of accidents occurring at the beginning of roadworks and indirectly the frequency and the duration of congestion.

In particular, in the field of short term roadworks safety concerns often occur on motorways. Accidents often happen because road users do not pay full attention, perceive the changed traffic conditions too late or do not access them correctly and as a result react too late or incorrectly. Particularly, if freight traffic is involved in such situations accidents with fatal consequences for road users and personnel at the roadworks can occur.

The cooperative roadworks warning reduces this risk directly by sending information about the roadwork to the approaching vehicles using safety trailers equipped with C2X communication technology.



For this purpose, in the scope of the project C-ITS-Corridor, led by Federal Ministry of Transport and Digital Infrastructure, the basic technology (cooperative traffic centre and communication units for safety trailers) were developed and tested and their operation prepared under the leadership of Hessen Mobil.

For the nationwide implementation of the service roadworks warning within the URSA MAJOR corridor 850 safety trailers have to be equipped with the so-called ETSI ITS G5 communication, which is a WLAN standard for the data exchange between vehicles and infrastructure.

In Hessen, the first safety trailers are already equipped and in operation. Bavaria, Baden-Württemberg, Rhineland-Palatinate and North Rhine-Westphalia have started the planning for service implementation. Until 2020 the service should be implemented in the URSA MAJOR corridor.



For further information please contact

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