

In the future even more safety at daytime construction sites

By the end of 2023, the Autobahn GmbH of the federal government will equip all mobile safety trailers of its motorway maintenance services with a new digital communication system. The system C-ITS, which stands for "Cooperative Intelligent Traffic Systems", warns the vehicles connected with it early and reliably of a daily roadworks. In this way, traffic on the motorways becomes significantly safer. The starting signal was given by Federal Minister of Transport Dr Volker Wissing on 28 October 2022 at an event in the Erkner motorway maintenance depot near Berlin.

With the C-ITS system, Germany is taking a step further towards connected, automated and cooperative mobility. Vehicles, road users, service providers and road operators are connected with each other and exchange data anonymously. Currently, the C-ITS service is already available in certain vehicle models via direct WLAN communication (ETSI ITS G5).

Since the risk of serious rear-end collisions is particularly high at daytime construction sites, the construction site warning was selected as the C-ITS service that Autobahn GmbH was the first to put into regular operation throughout Europe. The basic principles and technical components required for the implementation of the C-ITS service Roadworks Warning were developed and successfully tested on behalf of the Federal Ministry of Transport and the Ministries of Transport of the states of Austria and the Netherlands together with the Federal Highway Research Institute and industry.

The technology is already being used successfully in four motorway maintenance depots in the Rhine-Main region. By the end of the year, the mobile safety trailers of the motorway maintenance depots on the A 3 motorway corridor and in Berlin will be equipped with the road works warning service; by the end of 2023, all of the approximately 1,500 mobile safety trailers of Autobahn GmbH in Germany will be equipped with the system.

"C-ITS is the cornerstone for a connected motorway traffic system and thus also for automated driving. Another C-ITS application we are working on together with the ADAC is the early indication of road patrol vehicles providing breakdown assistance on the hard shoulder. Thus, as a technical innovation, C-ITS contributes directly to a safe and sustainable motorway traffic system," explained Prof. Gerd Riegelhuth, Head of Traffic Management, Operations and Traffic at Autobahn GmbH.

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