

Press release

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Avoiding traffic jams and gridlock with intelligent systems and sensors

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Patience is required on Germany's motorway network: according to the 2018 ADAC Traffic Jam Report¹, there are 2,000 traffic jams per day on average, resulting in 1.5 million kilometres of stopped traffic. Innovative solutions that help to prevent traffic jams and gridlock in urban areas will be on display at Hypermotion from 26 to 28 November 2019.

Traffic monitoring that is available at all times and intelligent traffic management help to avoid gridlock in cities and conurbations. This includes the use of (thermal imaging) cameras and other innovative recognition systems from FLIR Systems that supply the images needed to efficiently monitor city traffic. These record traffic data and automatically recognise accidents on motorways and in tunnels – thanks to thermal imaging technology, they can even do so in the dark. Thermal imaging cameras and sensors are also ideal for monitoring infrastructure such as railway lines and level crossings, as well as detecting fires in trains. In order to improve traffic flow for motor vehicles, pedestrians and cyclists, this leading international firm has developed traffic sensors that optimise traffic flows by controlling the timing of traffic lights at intersections.

As a result of ongoing urbanisation and the acute lack of space in urban regions, road safety is becoming ever more important. The thermal imaging traffic sensor with integrated vehicle-to-everything (V2X) technology also contributes to the avoidance of collisions between vehicles and other road users. This technology, which is based on communication between vehicles and infrastructure objects in the vicinity, warns drivers of dangerous situations. It is a solution that represents another step on the road to connected and automated driving.

The safety of road users is also the concern of the Israeli company Vayyar Imaging. 3D-imaging sensors create a 3D image of everything in the vicinity in real time. This makes it possible, for example, to monitor the presence, position, behaviour and vital signs of people in the vehicle without a camera. And, because, the sensor delivers a 360-degree image, drivers can also use it as a parking aid and blind spot assistant. The chip can even be used in logistics to determine freight capacities

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¹ ADAC Staubilanz 2018
www.adac.de/der-adac/verein/aktuelles/staubilanz/

when loading trucks and containers and to inspect the condition of freight during transport.

Reducing traffic jams on Europe's roads is the objective of Dynaroads. This Swiss firm specialises in safe solutions and products for dynamic temporary traffic management. Its fully-automated road management concept for tidal flow systems with self-propelled barriers and automated control of all signals for road users ensures that traffic flows are optimised and traffic jams reduced.

'Mobility in conurbations – opportunities and challenges' is the theme of the German Mobility Congress (DMK), which is taking place as part of Hypermotion for the first time. The 'smart mobility conference' (smc) focuses on sustainable urban mobility and the digital networking of regions, while the 'EXCHAIiNGE' conference and 'Logistics Digital Conference' (LDC) are devoted to (digital) logistics and supply chain management.

Hypermotion will take place from 26 to 28 November 2019 in Frankfurt.

Press information and photographic material:

www.hypermotion-frankfurt.com/presse

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