



## Cars connected with Vodafone technology can look round corners

- Smart cars: Vodafone, Audi & Huawei provide insights into the future of driving at CeBIT
- Safe driving: a new technology prevents accidents, cuts journey time and conserves fuel
- Powered by: cellular V2X, enabling latest generation car connectivity

**Hanover, 19 March 2017 – Cars with the capability to look round corners will make Germany's roads even safer. Vodafone, Audi and Huawei are giving CeBIT visitors a glimpse into a future world, where cars have cellular V2X connectivity - a technology fuelled by data that operates on digital highways. C-V2X enables direct vehicle-to-vehicle communication. When the gigabit society arrives it will also make direct communications between vehicles, pedestrians, traffic light systems and other elements of the roadside infrastructure possible. C-V2X helps to prevent accidents by communicating information on potential hazards in real time to other road users. The technology also saves time and reduces fuel consumption because it allows the driver to avoid traffic jams and reach the destination faster. Fuel consumption reductions of up to 15% are possible. That's good for the driver's wallet and good for the environment. At CeBIT Vodafone will be presenting real scenarios that demonstrate just how close we are getting to connected mobility.**

"m" for mobility is synonymous with "m" for mobile wireless technology because wireless technology is facilitating the connected mobility future. Connected cars will soon be able to look around corners and warn each other about hazards. This takes us a big step further towards global connectivity. Once we arrive in that connected world, we won't need traffic lights, traffic jams will be a thing of the past and there'll be far fewer road traffic-related deaths," commented Vodafone Germany's CEO Hannes Ametsreiter. "We're already working to create it by making our networks as fast as the human nervous system. We are in a strong partnership with the automotive industry committed to revolutionising the traffic infrastructure."

### Cellular V2X is enabling latest generation car connectivity

Vodafone, Audi and Huawei are uniting two worlds with cellular V2X to provide the next generation of car connectivity. Latency times have already been minimised as a result and it won't be long before vehicles are communicating in real time. Wireless technology controls when and what data are communicated. Information about potential hazards is always prioritised and transmitted to every person and vehicle in the immediate environment. While this vehicle-to-vehicle communication is going on, the connected cars are also sending and receiving data via the wireless network which helps them to identify and avoid incidents or traffic congestion, even if the situations are too far ahead for them to see or their vision is obstructed by an object such as a building. This parallel communication between vehicles and the wireless network improves safety on the roads because the cars see things long before the drivers do.

### Visualise, alert, brake: the Vodafone, Audi and Huawei demonstration at CeBIT

The three companies will be presenting various direct communication scenarios involving road users at CeBIT. Drivers get an alert if the car in front suddenly brakes for some reason, such as a ball rolling out onto the road. Connected cars can see a video feed from vehicles ahead of them in situations where it will help them to have that visibility. It allows them to be aware of what's coming up, even if their view is obstructed by a large vehicle. Vodafone will also be demonstrating how mobile connectivity can alert vehicles to a pedestrian crossing the road ahead, even before they are visible to sensors or the driver.

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*Vodafone is exhibiting at this year's CeBIT in Hanover from 20 to 24 March 2017 in Pavilion 32. According to the motto of "Welcome to the German GIGANETWORK", the telecommunications group will be demonstrating how it is driving and designing the gigabit society: from smart, secure cities to smart factories, digital retailing and connected vehicles.*

## Information about Vodafone

Vodafone Germany is a leading integrated telecommunications company and Germany's largest cable television operator, offering fixed broadband, mobile communications, internet and TV services. As a gigabit company, Vodafone is a key contributor to the development of Germany's 5G infrastructure. The Düsseldorf-based company's continuous investments in faster fixed and mobile networks are taking Germany forward into the gigabit society.

Vodafone Germany offers a comprehensive ICT portfolio for enterprise customers, networking people and machines, facilitating secure corporate networks and storing enterprise data in the German cloud. Around 90% of all DAX-listed companies and 15 of Germany's 16 federal states are already Vodafone customers. Vodafone Germany has 14,000 employees and generates annual revenue of € 11 billion with 43.7 million SIM cards, 6.1 million fixed broadband customers and numerous digital solutions.

Vodafone Germany is the largest operating company of the Vodafone Group, one of the world's largest telecommunications companies with mobile operations in 26 countries and partners with mobile networks in 49 more. It also has fixed broadband operations in 17 countries. Vodafone has around 470 million mobile customers and 14.3 million fixed broadband customers around the world.

Visit the website at [www.vodafone-deutschland.de](http://www.vodafone-deutschland.de) for further information.

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