

# Successful city-wide LTE-V2X field trial: fact sheet

*On the occasion of the 2018 World Internet of Things Exposition, held from 15 to 18 September in Wuxi, China, the world's first city-level Internet of Vehicle LTE-V2X (vehicle to everything) application demonstration area showcased a myriad of specific uses and innovations connecting cars and roadside infrastructure, and enabling a safer, more comfortable driving experience.*

The project involves numerous car manufacturers as well as research institutes, operators and public authorities. Many European companies showcased cutting-edge solutions developed in collaboration with industry partners and other stakeholders.

## Successful V2X demo: European contributions

- **Group PSA**

The French carmaker presented its latest LTE-V2X achievements, developed separately with Huawei and Qualcomm Technologies. The demonstrations featured Groupe PSA's SUV models: DS 7 Crossback, Peugeot 4008 and Citroën C5 Aircross.

The DS car was equipped with Huawei's solution based on C-V2X, and the Peugeot and Citroen cars were equipped with the Qualcomm® 9150 C-V2X chipset solution.

The demonstrations marked the beginning of a series of Groupe PSA field trials in China concerning intelligent connected vehicles, consistent with its international technological strategy in the field of connectivity.

- **Audi**

Audi tested and demonstrated 15 different V2X functions together with partners: Huawei, China Mobile and the Wuxi traffic police. Audi also received its first test licence for autonomous driving (level 4) on public roads in Wuxi.

Achieving a milestone in connected traffic, Audi's driver assistance systems automatically respond to connected road users and infrastructure. Depending on the traffic light phases and the behaviour of road users, the car automatically adapts its speed or activates the warning flashing light system in a hazardous situation. The communication between the cars and the infrastructure is based on the latest LTE-V2X network generation, enabling real-time data transmission.

## Other cutting-edge collaborative solutions on display

- Working with local partners, including Huawei and China Mobile, Ford Motor Company tested a combination of Vehicle-to-Infrastructure (V2I), Vehicle-to-Vehicle (V2V) and Vehicle-to-Pedestrian (V2P) features, using both direct and network modes of C-V2X technology. The Wuxi test aligns with Ford's recent C-V2X work in the U.S. and Europe.
- ASTRI, the Hong Kong Applied Science and Technology Research Institute, demonstrated V2X applications using Huawei's dual-mode C-V2X roadside device RSU, supported by ASTRI's C-V2X software system and algorithms. The tests covered 17 typical use cases, including forward collision warning, intersection collision warning, left turn auxiliary, vehicle blind area or lane change warning, road danger risk warning, speed limit warning, speed guidance based on signal lights, warning of congestion ahead, warning of pedestrian crossing in blind areas, and warning of on-ramp vehicles.

The project, which will be developed further and will reach completion by the end of 2018, will cover infrastructure including over 200 intersections, high-speed railway stations, an airport and five viaducts, serving around 100 000 vehicles in the area.

In 2019, LTE-V2X is expected to be used in all areas of Wuxi. In 2020, the city is expected to become the first base for the V2X industry in the world.

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### About Huawei

Huawei is a leading global provider of information and communications technology (ICT) infrastructure and smart devices. With integrated solutions across four key domains – telecom networks, IT, smart devices, and cloud services – we are committed to bringing digital to every person, home and organisation for a fully connected, intelligent world.

Huawei's end-to-end portfolio of products, solutions and services are both competitive and secure. Through open collaboration with ecosystem partners, we create lasting value for our customers, working to empower people, enrich home life, and inspire innovation in organisations of all shapes and sizes. We have more than 180 000 employees, and we operate in more than 170 countries and regions. Founded in 1987, Huawei is a private company fully owned by its employees.

Huawei currently has over 11 000 staff based in Europe, of whom 1 900 are working in R&D. We run 18 R&D organisations located in eight European countries (Belgium, Finland, France, Germany, Ireland, Italy, Sweden and the UK) and operate numerous joint innovation centres in partnership with telecom and ICT partners.

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