

WHY C-V2X: A GLOBAL OEM PERSPECTIVE

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A DEEP MUTATION IMPACTING THE AUTOMOBILE WOLRD

A digital and connected world



Green Planet



Aging population



Globalization



Increasing urbanisation



From possession to use



The car will more change for the next 10 years than over the last 30 years

- **V2X direct communications** allow vehicles to exchange information with other vehicles, from different OEM, and with pedestrian devices
- **Groupe PSA** is developing variety of V2X and ADAS applications, using **wide array of technologies**



Automotive safety,
Automated driving,
Traffic efficiency



Safety to our Customers,
Enhanced Connectivity

CUSTOMER BENEFITS

- The car is able to detect what the driver can't see and **anticipate potential risks**
- The driver can rely on the vehicle which **informs** him in **real-time**
- **V2X communication complements** the capabilities of the autonomous cars **sensors** by providing 360-degree non-line-of-sight awareness, **extending a vehicle's ability** to “see” further down the road



USE CASES

- Slow or stalled vehicle warnings or traffic alerts
- Emergency brake warning
- Left Turn Assist
- Insertion Mouvement Assist
- Signal Phase and Timing

GROUPE PSA's TECHNOLOGICAL PRIORITIES

- 2 main candidate technologies : **WIFI-ITS** and **C-V2X**
- Groupe PSA is studying both technologies:
 - **WIFI-ITS with SCOOP project**
 - **C-V2x is studied in different projects and alliances**
 - **Experimentations with partners**



- **China** : early 5G deployments of products and features will require these functions around 2020



The technology is slated to come out in 2020. It will be first rolled out in the Chinese market.

- **Europe**: still interested in 2 different technologies for Intelligent Transport Systems (ITS): 3GPP LTE-V2X and IEEE 802.11p.
 - Delegate Act planned this year within European Commission Scope.



This connectivity system will be needed to deploy the autonomous driving. The deployment is expected by 2022 in Europe.



WE DESIGN UNIQUE AUTOMOTIVE EXPERIENCES

