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Citroën C4 and DS 4 owners can take part in the SCOOP project: connected vehicles to improve road safety

- **The SCOOP project is part of the rollout of V2X (Vehicle-to-Everything) systems to facilitate communication between vehicles and their environment**
- **As part of the experiment, Citroën C4 and DS 4 vehicles can communicate to exchange information aimed at improving road safety**
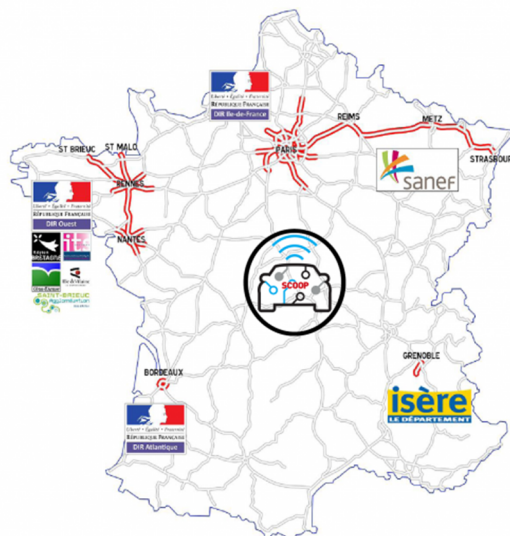
Groupe PSA is offering its customers the chance to test V2X functions on several roads in France. People owning Citroën C4 and DS 4 vehicles and driving them in Ile-de-France, Brittany, Isère, Champagne-Ardenne and Bordeaux can take part.

To participate, all you need to do is register here. The carmaker will supply the equipment.

Data exchange involves "on-board units" – the car is fitted with a modem, two antennas and software – and "road-side units", which are connected to traffic management centres.

The test is part of the SCOOP project, launched in 2014. SCOOP is a French pilot intelligent transport system that aims to enhance road safety and improve traffic management, making it a key step in autonomous and connected vehicle deployment. Indeed, V2X communication (like V2C, Vehicle-to-Car and V2I, Vehicle-to-Infrastructure) can help anticipate certain events. The information exchanged between the vehicles and the infrastructure will fill in the gaps in that obtained by the cameras and radars that will equip the autonomous vehicle.

Today, the project consists in testing V2X standards in real on-road conditions. More than 2,000 kilometres of French roads are being equipped; the current project's perimeter covers 15 use cases. *(See the table in the Appendix)*

The design and validation procedures for SCOOP system are similar to those for a series-production vehicle; the existing interface already integrates the SCOOP alerts.

Information sharing is compliant with data protection rules and cybersecurity standards; the French Data Protection Authority (CNIL) has vetted the project.

SCOOP's appeal is that it has established a common language between many stakeholders:

- Carmakers (Groupe PSA and Renault), which are involved in the project and are fitting the connected vehicles with the on-board units;
- Regional road infrastructure departments (Aquitaine, Ouest, Isère, Ile de France) and a motorway concession holder (Sanef), which are installing the road-side units;
- Several suppliers of vehicle and roadside systems, which are also contributing to the project;
- A telecom operator (Orange), which is ensuring the continuity of communication on the various networks;
- The French Ministry of Transport, which is coordinating the entire SCOOP project.

Groupe PSA is working on several avenues for the rollout of V2X communication, whether through the SCOOP project or as part of the C-V2X project launched recently in partnership with Qualcomm.

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About Groupe PSA

Groupe PSA designs unique automotive experiences and delivers mobility solutions to meet all client expectations. The Group has five car brands, Peugeot, Citroën, DS, Opel and Vauxhall, as well as a wide array of mobility and smart services under its Free2Move brand, aiming to become a great car maker and the preferred mobility provider. It is an early innovator in the field of autonomous and connected cars. It is also involved in financing activities through Banque PSA Finance and in automotive equipment via Faurecia. Find out more at groupe-psa.com/en.

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Les cas d'usage SCOOP
SCOOP Use Cases

Alerte route glissante
Slippery road warning

Alerte animal sur la route
Animal on road warning

Alerte piéton sur la route
Pedestrian on road warning

Alerte obstacle sur la route
Obstacle on road warning

Alerte véhicule arrêté
Stopped vehicle warning

Alerte véhicule en panne
Broken down vehicle warning

Alerte zone d'accident non protégée
Unprotected accident area warning

Alerte visibilité réduite
Reduced visibility warning

Alerte obstruction d'une route non gérée
Obstruction warning

Alerte freinage d'urgence
Emergency braking warning

Alerte queue de bouchon
Traffic jam warning

Alerte conditions météorologiques exceptionnelles
Bad weather conditions warning

Alerte chantier programmé (fixes et mobiles)
Roadworks area warning (stationary and mobile)

Alerte d'intervention sur voie
Intervention on lane warning

Alerte véhicule prioritaire / viabilité hivernale
Winter service warning