

Driving Trust, Interoperability and Progress of C-ITS for safety, ADAS & AD

The **Car2Car Communication Consortium (C2C-CC)** plays a central role in realizing interoperable, trustful and direct communication (Vehicle-to-Everything (V2X)) for ADAS & safety related services. In Europe, deployment of Cooperative Intelligent Transport Systems (C-ITS) is steadily increasing. C2C-CC's role is to ensure through common specifications that **solutions operate reliably, consistently, and securely** — regardless of brand or country.

Navigating a Complex Ecosystem

The Direct V2X ecosystem in Europe relies on multiple specification sets (by ETSI, CEN, ISO), deployment initiatives (C-Roads), and stakeholder groups: C2C-CC. The **key elements** ensuring interoperability between the road users are **the technical and functional profile (Basic System Profile¹) and supporting compliance specifications** realizing harmonized service delivery.

Building Trust: Triggering Conditions

Trust encompasses not only security but also the reliability of content: C2C-CC defines exact **Triggering Conditions (TCs)** — rules that govern when and how safety messages like **Local Hazard Warnings** as in the table below are sent. These TCs are central to **data trustworthiness and reliability**, used by OEMs and referenced in deployment frameworks such as **C-Roads²**.

Euro NCAP Local Hazards	
Construction Zones	Poor weather
Items on Road	Poor Road
Stopped Vehicle	Wrong Way Driver
Broken Down Vehicle	Amber + Blue lights
Post Crash	Traffic Jam

¹ <https://www.car-2-car.org/documents/basic-system-profile>

Local Hazards in the 2026 Euro NCAP protocol



Evolving towards ADAS Use Cases, shaping next Direct V2X

C2C-CC advances local hazard warnings by refining and extending specifications together with C-Roads (the European road operators C-ITS platform) while also involving other stakeholders such as Powered Two-Wheelers (PTW) and Micromobility (eBike) stakeholders enabling initial cooperative ADAS use cases.

Members shape the future of road safety

- access to compliance documents ensuring interoperable direct V2X
- influence the evolution of C-ITS and ADAS use cases and technologies
- access to common tools and test specifications
- collaborate with OEMs, Tier1s, road operators, PTW, Micromobility, Agriculture and other stakeholders
- strong influence on standardisation

C2C-CC the centre of competence for V2X in Europe.

² <https://www.c-roads.eu/platform/about/news/News/entry/show/euro-ncap-local-hazards.html>