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Consortium





Project facts

Full Title: ReliablE in-Vehicle pErception and decision making in complex environmenTal conditions

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https://events-project.eu/



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Robust perception and decision-making for automated driving

Vision

The vision of EVENTS project is to create a robust and resilient perception and decision-making system for Connected and Automated Vehicles (CAVs) to manage various types of "events" on the horizon.

These situations are creating challenges for CAVs that should be overcome in order to enable safe and reliable automated driving in such cases. An indicative but non-exhaustive list of these challenges is the following:

- Perception in complex urban environments, in particular dealing with Vulnerable Road Users (VRUs);
- Perception in adverse weather and poor lighting conditions;
- Perception under (partial) occlusions;
- Accurate prediction of road users' trajectories (especially if highly manoeuvrable, like VRUs);
- Usage of connectivity for V2X information to improve accuracy, certainty & reliability of perception;
- Reduction of the costs of the required sensor-suites;
- ---- Real-time decision-making and motion planning, especially in uncertain situations;
- system.

In EVENTS, in case the system or some of the subsystems cannot perform with the expected quality and reliability, an improved minimum risk manoeuvre is triggered.

Use Cases

Within the scope of EVENTS project and in order to cover a wide area of scenarios, the various types of "events" are clustered under three main use cases:



