

COPE - Collective Perception

Logistikum at University of Applied Sciences Steyr is coordinating an important next step for automated and cross-linked driving in urban environment. The project team focuses on the following overarching research question: How can safety in intersection situations be increased for all road users through cooperation and communication (C-ITS)?

Automated driving aims at preventing accidents and reducing collision severity. Systems like the "autonomous emergency brake" or "collision warning" contribute to increasing vehicle safety. With respect to „Vulnerable Road Users" (VRUs), such as pedestrians, cyclists, motorcycle riders, there is still high potential to reduce accidents and avoid dead people through automated vehicles with improved sensors, vehicle communication and collaboration abilities.

The main goal of COPE is to raise the considerable potential for the next upcoming innovation boost in vehicle and traffic safety by intelligently combining the information of all road users in a kind of "collective perception" and "situation awareness". The basis provides to communication and collaboration among road users as well as infrastructure facilities ("V2X, I2X Communication") aiming at the reduction of accidents.

Basically, the (local) vehicle awareness is expanded with information from other vehicles and road infrastructure facilities. The expected benefit - avoiding accidents with VRUs - is the main motivation for the COPE (Collective Perception) project. COPE especially considers urban areas and traffic light-controlled intersections in connection with (partially) automated, connected vehicles.

For further information please visit our project homepage:

<https://www.project-cope.eu/>



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project partners:



LOI-partners:



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