Project Facts

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HIDDEN (Hybrid Intelligence for Advanced Collective Perception and Decision Making in Complex Urban Environments)

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Institute of Communication & Computer Systems (ICCS)

Consortium

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HIDDEN EU PROJECT

HIDDEN EU project

Funded by the European Union

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HIDDEN - Hybrid Intelligence for Advanced Collective Perception and Decision-Making in Complex Urban Environments

Seeing Beyond the Visible – Safe Urban Mobility Through Hybrid and Ethical-aware Intelligence

Funded by the European Union

HIDDEN's Concept

HIDDEN aims to advance **collective awareness** & **decision-making** for CCAM systems in complex urban scenarios, with or without road infrastructure support, focusing on timely detection of occluded vehicles and Vulnerable Road Users (VRUs) and prediction of their trajectories.

HIDDEN deploys **Hybrid Intelligence tools** and techniques promising increased performance of AVs, reaping the benefits of combining human with machine intelligence.

HIDDEN is developing CCAM systems which are not just technologically advanced but also deeply aligned with human driving styles, **ethical principles and regulations,** setting a new benchmark for the future of AVs technology.

HIDDEN Objectives

Design, develop and test **failsafe AI-based collective awareness** systems, focusing on detection of occluded objects, including VRUs, in complex urban settings.

Design, develop and test **predictive decision-making** agents that utilise **collective awareness** output and which are **explainable** and aligned with **human driving styles** and **ethical principles.**

Embed **human intelligence** in both perception and decision-making layers, while considering AI-related **ethical and societal aspects,** via the development of a dedicated toolset.

Reach out to **CCAM stakeholders,** in EU and beyond, concerning HIDDEN developments, engage in a continuous discussion with EU **type approval authorities** and **UNECE** working groups and promote mature results to standardisation.

Impact at-a-glance

- Enhanced scene understanding through collective perception.
- Extended reaction windows in safety-critical urban scenarios.
- Improved traffic efficiency and environmental performance at system level.

use cases

- Protect darting out child hidden by parked vehicle in a school zone
- Protect worker hidden by vegetation in a road construction zone
- Protect cyclist or micro-mobility user hidden by vehicle in a vehicles-cyclists shared zone
- Protect vehicle hidden by buildings or a shuttle in an unsignalized intersection