



Project Facts

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

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European Climate, Infrastructure and Environment Executive Agency (CINEA)

Coordinated by
Institute of Communication & Computer Systems (ICCS)

Consortium



LIBRA_{AI} Technologies



Technische Hochschule Ingolstadt

universität freiburg

Τεχνολογικό Πανεπιστήμιο Κύπρου



DENSO
Crafting the Core



VRAIN
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Reach out



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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



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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



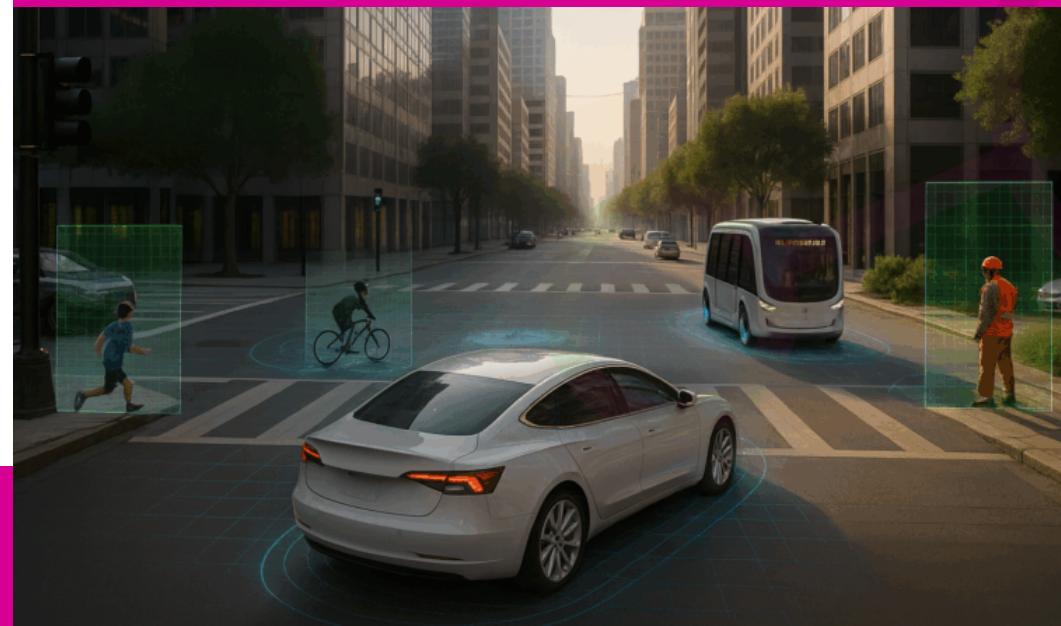
Enhanced scene understanding through collective perception.



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