

HIDDEN

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

Urban mobility creates major challenges for CCAM, especially the detection of occluded objects and vulnerable road users (VRUs). HIDDEN addresses this by developing advanced collective awareness (CA) and decision-making algorithms, with and without infrastructure support. The CA system detects occluded objects and predicts short-term VRU trajectories using behavioural models, while a novel driver gaze and status monitoring system complements this. Both feed into real-time decision-making algorithms designed to be explainable, human-like, and ethically aligned. Hybrid Intelligence methods combine human and machine strengths across perception and decision-making, with ethical and legal aspects integrated via a dedicated framework. Solutions will be tested both in simulation and real-world trials, using the consortium's eight AVs across test facilities and public roads. Four main use cases will guide evaluation.

Website:
hiddenproject.eu

Website



Coordinator:

ICCS-NTUA (Greece)

Project Duration:

01/07/2025 - 30/06/2028

Total Budget:

4 997 139, 75 €



Funded by
the European Union

The project has received funding from the European Union Horizon Europe research and innovation programme under grant No 101202228.

