

CONTACT

AI4CSM is coordinated by Infineon Technologies Germany AG.

Project Coordinator

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Project Partners:



Funding

AI4CSM project has received funding from the ECSEL Joint Undertaking (JU) under grant agreement No 101007326. The JU receives support from the European Union's Horizon 2020 research and innovation programme. It is co-funded by the consortium members and grants from Germany, Netherlands, Czech Republic, Austria and Norway, Belgium, Italy, Latvia, India.



www.ai4csm.eu



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AI4CSM - Automotive Intelligence for Connected Shared Mobility

VISION

Build Europe's intelligent electronic components and systems for ECAS 2030 vehicles supporting European mass market production based on the Green Deal principles

PROJECT FACTS

Project Coordinator:
INFINEON TECHNOLOGIES GERMANY AG
Project Start: 01-05-2021
Duration: 36M
Participating organizations: 41
Number of Countries: 10
Total investment: ~€M 41,7
EU contribution: ~€M 11,9

ABOUT THE PROJECT



AI4CSM aims to enable the future mobility developments following the electrification, standardization, automatization and digitalization implementation strategy by providing new AI-enabled electronic component and systems for ECAS vehicles for advanced perception, efficient propulsion and batteries, advanced connectivity, new integration and platform concepts and intelligent components based on trustworthy AI. The AI4CSM project will develop advanced electronic components, systems and architectures for future mass-market ECAS vehicles. This fuels the digital transformation in the automotive sector to support the mobility trends and accelerate the transition towards a sustainable ecosystem.

GLOBAL GOALS

- Implement the convergence of 4 major mobility trends to realize the transition to digital economy: electrification, standardization, automatization, and digitalization to facilitate the ECAS 2030 mobility to address the Green Deal principles for the European transportation sector. This transition will seed new mobility applications, services, and business models.

- Provide technologies and solutions for mass - market ECAS vehicles that address the 4 major mobility trends accelerating the digital transformation of the European automotive industry and regain its global leadership position.

- Develop advanced digital technologies, platforms, HW/SW electronic components and systems, including AI, to solve complexity in automation and energy efficiency in ECAS vehicles for sustainable mobility services.

OBJECTIVES

1

Develop robust and reliable mobile platforms

2

Develop scalable and embedded intelligence for edge and edge/cloud operation

3

Design silicon for deterministic low latency and build AI-accelerators for decision and learning

4

Solve complexity by trustable AI in functional integrated systems

5

Design functional integrated ECS systems

6

Build ECAS vehicles for the green deal and future connected, shared mobility

AI4CSM objectives will be achieved by working in eight Supply Chains

SC1: Smart Connected Shared Mobility for Urban Area

SC2: EV 2030 by AI inside

SC3: Functional integrated highly automated L3 driving

SC4: Robust Propulsion System for Shared Connected Mobility

SC5: Connectivity and Cognitive Communication

SC6: AI-Enabled Perception and Sensor Fusion Platforms

SC7: AI-Based Methods, Simulation and Virtualization

SC8: European Values Impact: Green Deal, Standardization, Certification, Ethical Aspects