



Vision

Build Europe's intelligent electronic component and systems for ECAS 2030 vehicles supporting European mass market production, manufacturability and scalability based on the Green Deal principles.

Mission

Develop the functional architectures for next generation ECAS vehicles based on ECS, embedded intelligence and functional virtualization for connected and shared mobility using trustworthy AI.

Trends

Enable the future mobility developments following the electrification, standardisation, automatisisation and digitalisation 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 global goals of AI4CSM, to address the mobility trends and to fulfil the project mission and vision, are

Implement the convergence of 4 major mobility trends to realize the transition to digital economy: electrification, standardisation, automatisisation, and digitalisation 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 the address the 4 major mobility trends, to accelerate the digital transformation of European automotive industry and regain its global leadership position.
- Advance 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

- Develop robust and reliable mobile platforms
- Develop scalable and embedded intelligence for edge and edge/cloud operation
- Design silicon for deterministic low latency and build AI-accelerators for decision and learning
- Solve complexity by trustable AI in functional integrated systems
- Design functional integrated ECS systems
- Build ECAS vehicles for the green deal and future connected, shared mobility

Project Facts

Project Coordinator: INFINEON TECHNOLOGIES GERMANY AG

Project Start: 01-05-2021

Duration: 36M

Total investment: ~€M 41,7

Requested EU contribution: ~€M 11,9

Participating organizations: 41

Number of Countries: 10

Project Partners



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