Cynergy4MIE at a glance

Cynergy4MIE is a project focused on advancing technologies within the Mobility, Infrastructure, and Energy (MIE). It aims to create a unified technology stack to facilitate the seamless transfer of smart software and efficient electronic components across different systems, accelerating product development and reducing costs. The project uses cutting-edge sensors and technologies to enhance applications and make them more appealing to consumers. The project addresses global competition by focusing on software-driven approaches and shared tools, particularly in the development of electric vehicles and energy storage solutions. Cynergy4MIE envisions a future where MIE systems are interconnected, leveraging shared technologies and innovations to maintain Europe's competitive edge and boost productivity.

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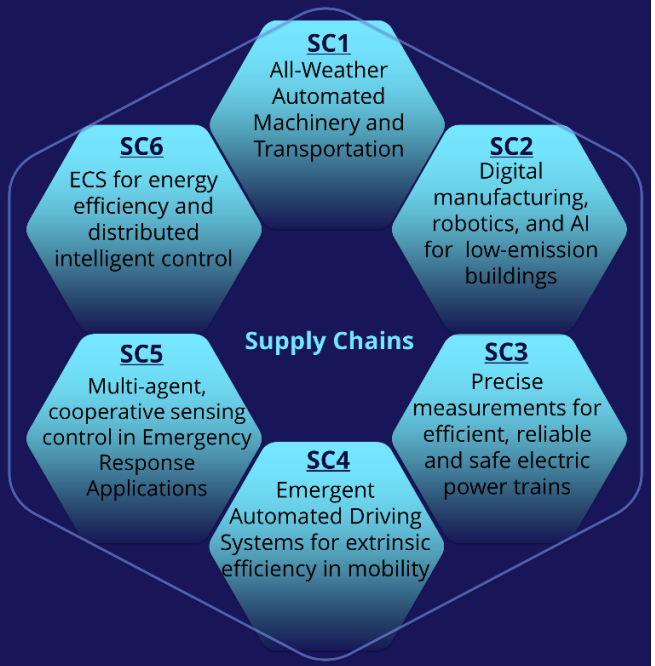
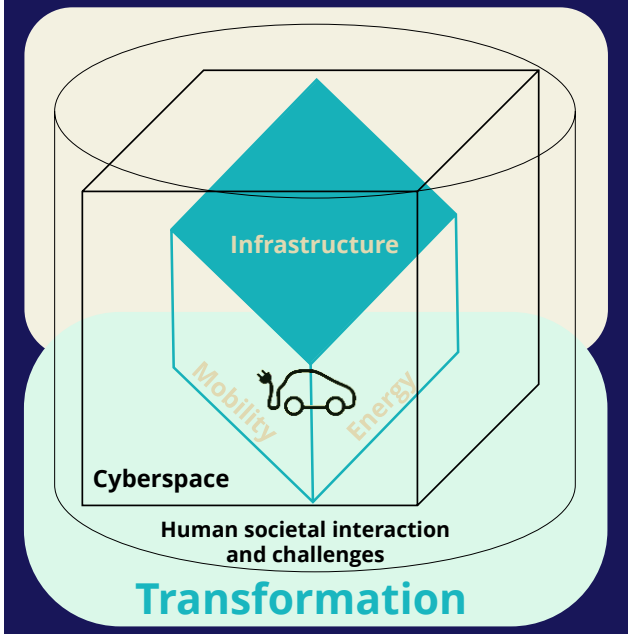
Start: 1 September 2024
Duration: 36 months
Budget: 32,7 M€
Coordinator: AVL
Consortium: 43 participants
Countries: 16

The Cynergy4MIE project is supported by the Chips Joint Undertaking and its members, including the top-up funding by National Authorities under Grant Agreement No 101140226.

Objectives

- Design and deploy minimum - invasive sensors for critical nano/microstructures in competitive CPS
- Built-in AI for co-existence & collaboration CPS in safety critical context
- Build digital assets & emergent AI for efficiency in operation
- Accelerate convergence in ecosystems for economy of scale
- Get global competitiveness for Europe's circular economy





The project aims to create a unified technology stack that supports software-defined transformation, facilitates efficient domain adaptation and promotes innovation along Europe's value chains.

The technology stack will be designed to meet the common needs of Europe's leading key application areas, promoting synergies and benefits throughout the entire value chain.

The opportunity

The Cynergy4MIE project presents an opportunity to address the inefficiencies arising from parallel development efforts in the ECS area. By proactively managing requirements from diverse key application areas, the project aims to guide developments in foundational technology layers and cross-sectional technologies.

This strategic approach seeks to unlock synergies, tackle the growing complexity of applications, and boost productivity throughout the entire value chain.

The project's outcome will be an application-driven technology stack that facilitates seamless software and ECS component deployment across ecosystems, accelerating high-level context adaptation and fostering economies of scale.