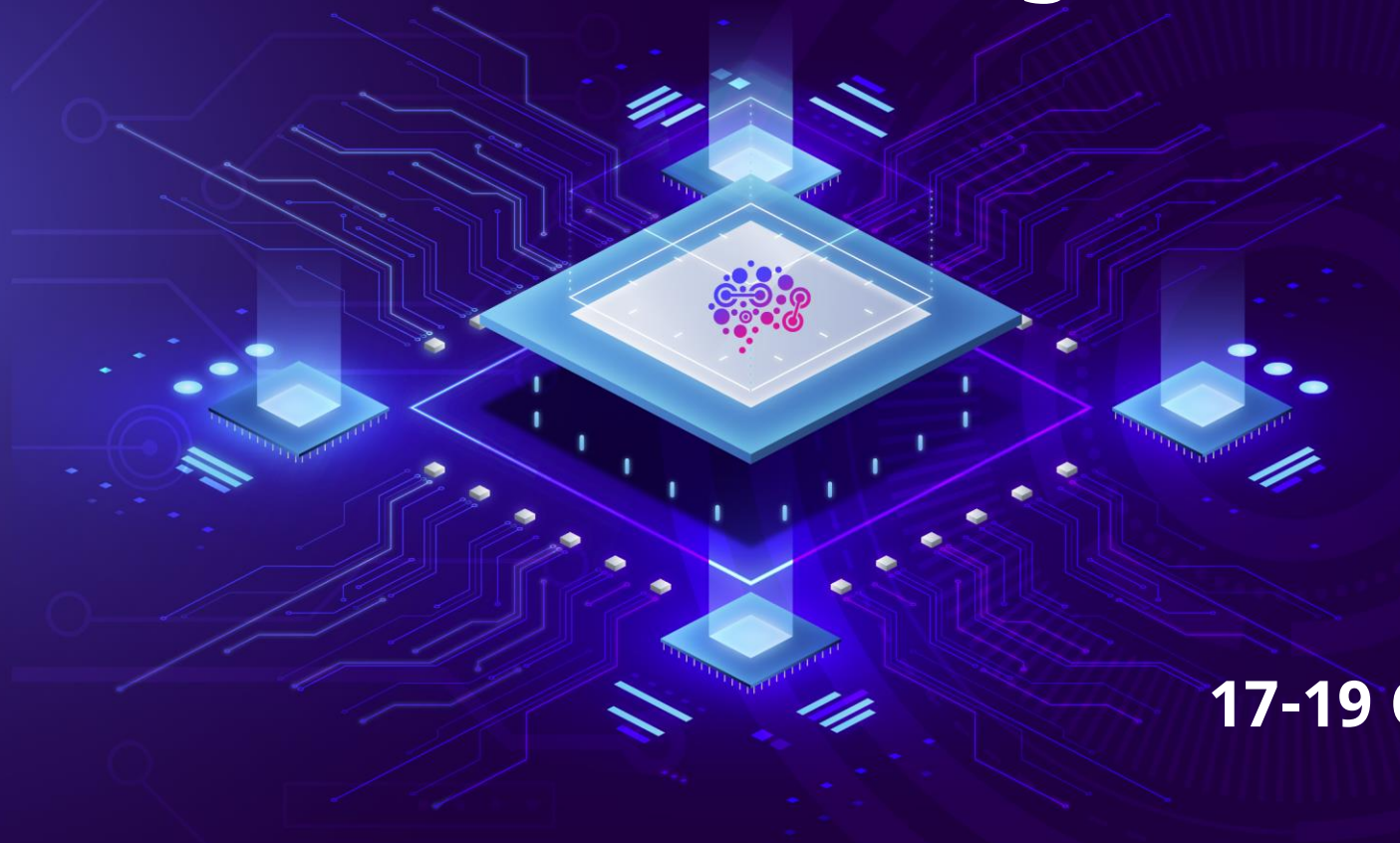
EDGE AI

European Conference on EDGE AI Technologies and Applications - EEAI



Advancing emerging edge AI technologies and driving next generation intelligent applications.

17-19 October 2023, Athens, Greece

European Conference on EDGE AI Technologies and Applications - EEAI

EcoMobility- Intelligent, Safe and secure connected Electrical Mobility solutions: Towards European Green Deal and Seamless Mobility

Mohammed Abuteir , TTTech

17-19 October 2023 Athens, Greece

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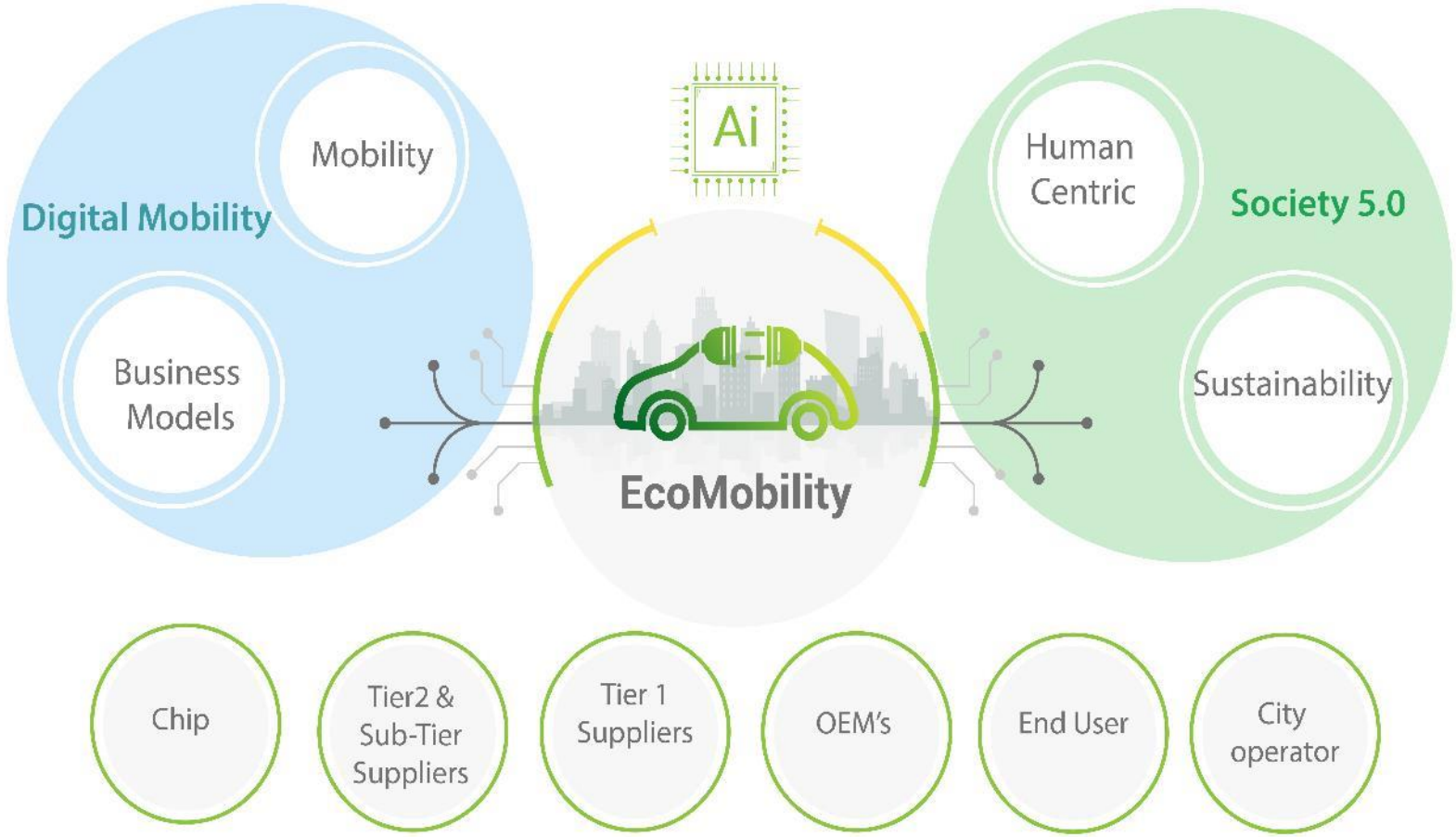
EcoMoblitiy



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Main Vision

- EcoMobility aims to **promote the transition of European industries and cities from isolated and rigid transportation methods to a service-oriented, interconnected mobility ecosystem**. This will be achieved by **facilitating the sharing of data and services** among involved stakeholders.

- The main vision is to reach **a sustainable value chain and enable technologies for door-to-door mobility of people and goods**. This will be achieved based **on customized autonomous vehicles integrated with an agile life cycle management system**. This system will allow continuous evolution of services, resulting in improved safety, security, efficiency, and ecology.

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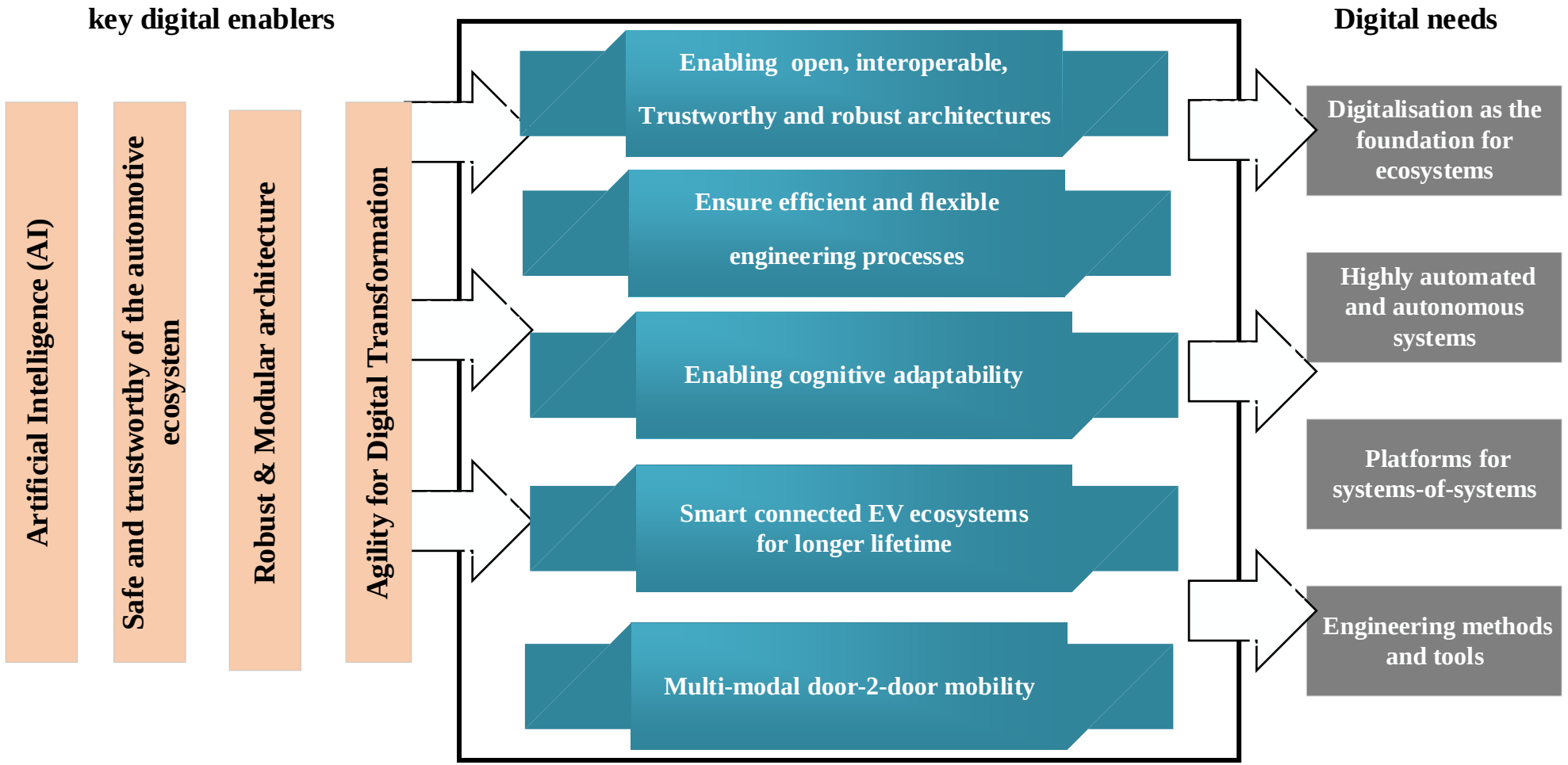
Technology Research challenges



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Objectives

- **Obj. 1:** to enable continuous and robust optimization of well adapted design methods and value chains to achieve digital mobility, enhance reliability, safety and security of future electrical vehicles
- **Obj. 2:** to develop on-board intelligent, trustworthy electronic components and systems for the next generation automated driving (SAE Levels 3+) .
- **Obj. 3:** to develop intelligent connectivity mechanisms and architectures for safer, greener, and more efficient road mobility.
- **Obj. 4:** To develop a connected smart battery management system with cloud-based Artificial Intelligent (AI) services and enhanced hardware capabilities for increased battery lifetime and reliability.
- **Obj. 5:** To develop a multimodal transport system for goods and passengers aiming to a more sustainable and efficient transport through smart city solutions, with upgraded and resilient physical and digital infrastructures for smarter vehicles and operations, for optimised system-wide transport network efficiency
- **Obj. 6:** To provide market intelligence on how to strengthen the European electrified vehicles industry, to enhance user acceptance, and to ensure Europe`s leadership in the field.

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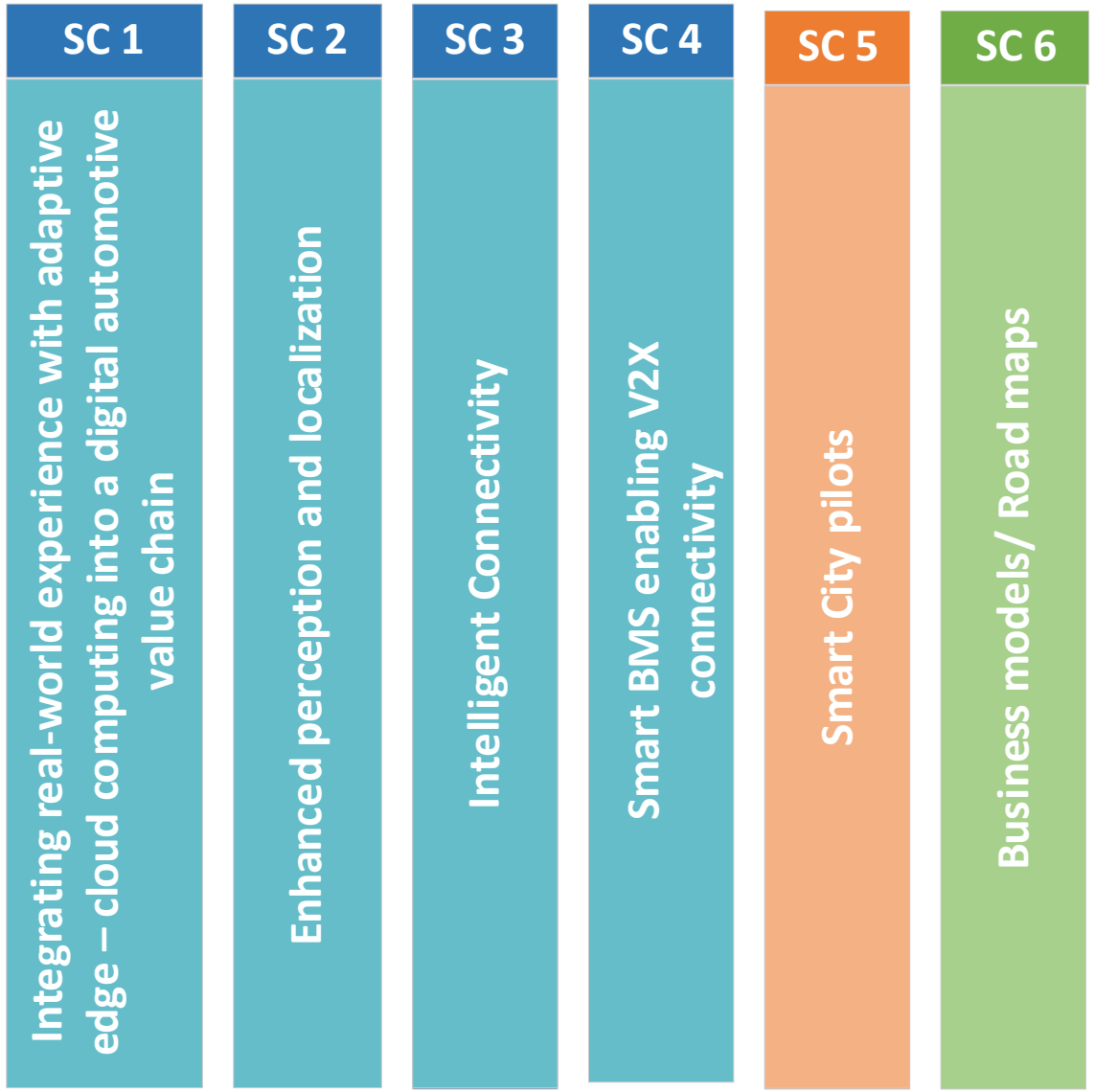
supply chain



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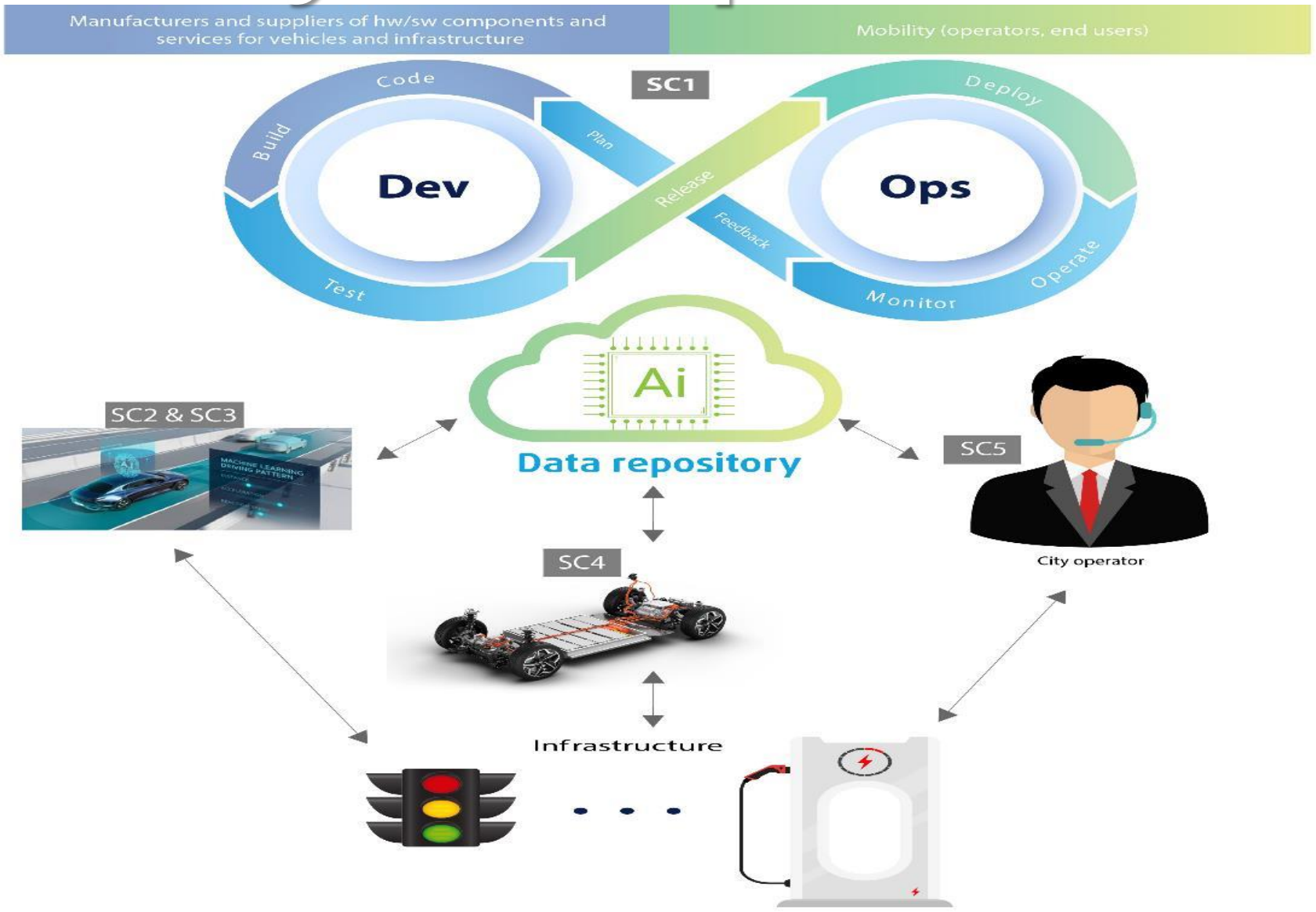
EcoMobility concept



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Project Overview

- **Funding**: KDT Call 2022 – RIA
- **Coordinator**: TTTech Auto GmbH
- **Duration**: 36 months (May 2022 – April 2025)
- **Partners**: 47 from 9 countries (EU+Turkey)
- **Use Cases**: 13
- **Project size**:
  - Total: ~ 37 Mio EUR / ~20 Mio EUR Funding

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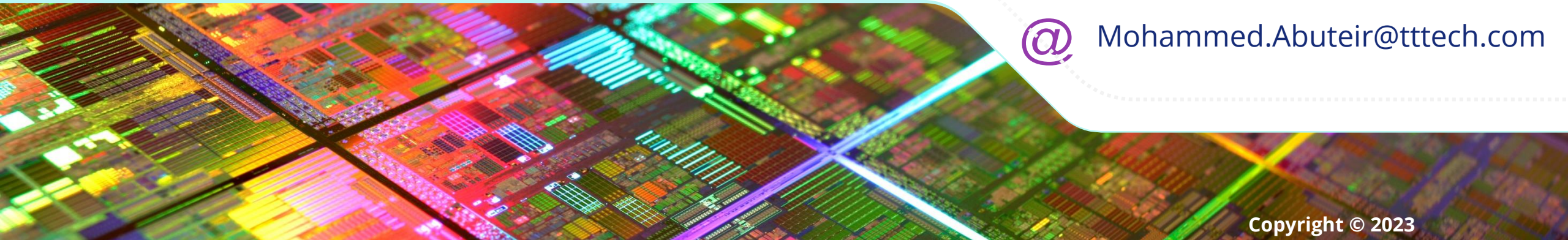
EDGE AI

Thank You

For your attention



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