

Concept & Objective

iMOCO4.E mission is to provide distributed edge-to-cloud motion control intelligence for a wide range of Human-in-the-Loop Cyber-Physical Systems involving actively controlled moving elements.

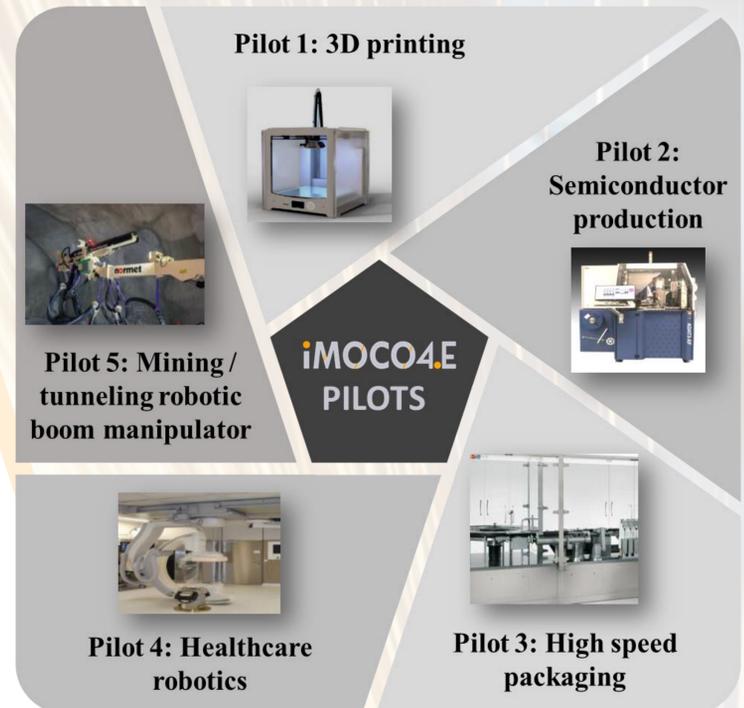
iMOCO4.E will deliver a reference **platform consisting of AI and digital twin toolchains** and a set of mating building blocks for resilient manufacturing applications. The optimal energy efficient performance and easy configurability, traceability and cyber-security are crucial.

The **iMOCO4.E platform's benefits** will be directly verified in applications for **semiconductor, packaging, industrial robotics and healthcare**. Additionally, the project will demonstrate the results in other generic "motion-control-centred" domains affecting the entire value chain of the production automation and application markets.

Our Mission

iMOCO4.E improves Industry 4.0 manufacturing productivity by:

- Combining and exploiting novel sensory information, model-based approaches and Industrial IoT philosophies to make **mechatronic systems smarter, more configurable, more reliable and faster** while simultaneously pushing their performance toward physical limits
- Assessing the demands placed on **future smart manufacturing** in Europe from a mechatronics and service-oriented point of view
- Establishing joint action of Industry 4.E and other relevant **Lighthouse projects** towards the identification and development of best practices and methods enhancing the European R&D ecosystem



Acronym: iMOCO4.E

Full name: Intelligent Motion Control under Industry4.E

Coordinator: Sioux Technologies B.V.

GA No.: 101007311 - H2020-ECSEL-2020-RIA

Start date: 1st September 2021

Duration: 36 months

Consortium: 45 Partners from 13 countries

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