



Dissemination Factsheets Webinar: Chips in Europe: Advancing Innovation in the Semiconductor Industry

Project Session: Robots and Intelligent Mechatronics: Edge-to-Cloud Advancements for Resilient Manufacturing – the IMOCO4.E Project

Virtual dissemination and exploitation of IMOCO4.E plays a critical role in the project consortium’s overall efforts to demonstrate the potential and achievements of the project beyond audiences in Europe. Spreading innovation awareness through virtual means such as webinars, enables the industry world-wide to prepare for the technological advancements delivered by IMOCO4.E, connect with leading innovators while avoiding significant investment into research and development of similar, competing solutions independently. The key goal of IMOCO4.E virtual dissemination and exploitation is to conceptually pursue effective promotion of the project achievements and transferability of the results beyond the project’s lifespan, using the overall dissemination and exploitation strategy as the main engine for promotion and uptake of project results.

Titled: *Intelligent Mechatronics: Edge-to-Cloud Advancements for Resilient Manufacturing – the IMOCO4.E Project*, the project session was featured alongside presentations of EU-funding opportunities for the electronic components and systems held by Caroline Bedran, Director General of the industry association AENEAS and the presentation of Europe’s leading project for industrial metrology and digital twinning MADEin4. Emphasizing key concepts of the project, the session speaker Sajid Mohammed from ITEC (Figure 2) captivated the audience’s attention by focusing on the project’s key concepts of artificial intelligence and digital twins, as well as model-based approaches and industrial IoT philosophies enabling mechatronic systems to become smarter, more configurable, more reliable, while simultaneously pushing their performance toward physical limits. The highly technical topics were presented by the project consortium speaker to more than 170 attending international experts from industry and academia in a manner understandable to technical and non-technical audiences alike. The session received positive feedback and is available to IMOCO4.E consortium and partners on the project website and video-streaming social media (e.g. YouTube)

WEBINAR

CHIPS IN EUROPE: ADVANCING INNOVATION IN THE SEMICONDUCTOR INDUSTRY





SPEAKERS



Marek Kysela
Senior Coordinator Advocacy SEMI Europe



Caroline Bedran
Director General AENEAS



Dr. Juan Andres Torres
Distinguished Engineer Siemens EDA



Sajid Mohamed
Principal Software Engineer

Figure 1: Webinar - Chips In Europe speakers

Why, Who & How

WHY ?

- Market is pushing machine performances to their physical limits
- To improve, you have to know more about the system behavior
- Want to visualize, understand and master system dynamics
- Digital transformation starts with generating [the right] data!
- Analyzing data and look for correlations to realize: Less downtime, Fewer rejects, Higher output, More efficient operation etc.

WHO

Machine builders and product developers, who:

- Seek for more productivity/throughput
- Face fast & accurate positioning challenges
- Seek for compensation of disturbance sources (like e.g. effect of temperature)
- Strive for 'machine data to information'
- Strive for a more agile development process (without hardware cycle)
- Desire for customized control & drive hardware for series assembly
- Desire to 'grasp' the complexity of their application(s)

HOW

We offer the IMOCO4.E solution

- 4 Architecture layers
- 10 Building blocks
- 5 Pilots
- 4 Demos
- 4 Use cases
- 8 Work Packages

 The project has received funding from the Electronic Component Systems for European Leadership Joint Undertaking, under Grant Agreement n°101007311

Figure 2: Webinar – IMOCO4.E session & consortium representative