Intelligent Motion Control Platform for Smart Mechatronic Systems

Fact Sheet

Project Information

I-MECH
Grant agreement ID: 737453

Funded under
H2020-EU.2.1.1.7.

Project website

Overall budget
€ 17 027 716.68

EU contribution
€ 5 018 274.06

Status
Closed project

Coordinated by
SIOUX CCM BV
Netherlands

Start date
1 June 2017

End date
31 May 2020

Objective

The I-MECH target is to provide augmented intelligence for wide range of cyber-physical systems having actively controlled moving elements, hence support development of smarter mechatronic systems. They face increasing demands on size, motion speed, precision, adaptability, self-diagnostic, connectivity, new cognitive features, etc. Fulfillment of these requirements is essential for building smart, safe and reliable production complexes. This implies completely new demands also on bottom layers of employed motion control system which cannot be routinely handled by available commercial products. On the ground of this, the main mission of this project is to bring novel intelligence into Instrumentation and Control Layers mainly by bridging the gap between latest research results and industrial practice in related model based engineering fields. Next, I-MECH will deliver new interfaces and diagnostic data quality for System Behavior Layer. It strives to provide a cutting edge reference motion control platform for non-standard applications where
the control speed, precision, optimal performance, easy reconfigurability and traceability are crucial. The high added value of I-MECH reference platform will be directly verified in high-speed/big CNC machining, additive manufacturing, semicon, high-speed packaging and healthcare robotics. In these sectors, the main project pilots will be validated. However, the platform will be applicable in many other generic motion control fields. The project outputs will impact on the entire value chain of the production automation market and, through envisioned I-MECH center, create sustainable proposition for future smart industry.

Field of science

/engineering and technology/mechanical engineering/manufacturing engineering/additive manufacturing

Programme(s)

Topic(s)

Call for proposal

H2020-ECSEL-2016-1-RIA-two-stage

Funding Scheme

ECSEL-RIA - ECSEL Research and Innovation Action

Coordinator

SIOUX CCM BV

Address

De Pinckart 24
5674 CC Nuenen
Netherlands

Activity type

Private for-profit entities
(excluding Higher or Secondary Education Establishments)

EU contribution

€ 577 500

Website

Contact the organisation

Participants (31)
ZAPADOCESKA UNIVERZITA V PLZNI

Czechia

EU contribution

€ 254 187,50

Address

Univerzitni 8
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Website

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Activity type

Higher or Secondary Education Establishments

ELEKTRONIKAS UN DATORZINATNU INSTITUTS

Latvia

EU contribution

€ 113 050

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Website

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Activity type

Research Organisations

REDEN B.V.

Netherlands

EU contribution

€ 129 375

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F Hazemeijerstraat 800
7555 RJ Hengelo Ov

Website

Contact the organisation

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

FUNDACION TEKNIKER

Spain

EU contribution

€ 136 412,50

Address

Calle Inaki Goenaga 5
20600 Eibar Guipuzcoa

Website

Contact the organisation

Activity type

Research Organisations
### VYSOKE UCENI TECHNICKE V BRNE
- **Country**: Czechia
- **EU contribution**: € 211,312.50
- **Address**: Antoninska 548/1, 601 90 Brno Stred
- **Activity type**: Higher or Secondary Education Establishments
- **Website**
- **Contact the organisation**

### ROVIMATICA SL
- **Country**: Spain
- **EU contribution**: € 70,425
- **Address**: Calle Plata, Num. 4 Pg Ind El Granadal, 14014 Cordoba
- **Activity type**: Private for-profit entities (excluding Higher or Secondary Education Establishments)
- **Contact the organisation**

### TECHNISCHE UNIVERSITEIT EINDHOVEN
- **Country**: Netherlands
- **EU contribution**: € 285,704.56
- **Address**: Groene Loper 3, 5612 AE Eindhoven
- **Activity type**: Higher or Secondary Education Establishments
- **Website**
- **Contact the organisation**

### INGENIA-CAT S.L.
- **Country**: Spain
- **EU contribution**: € 133,875
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<th>Country</th>
<th>EU Contribution</th>
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<td>FAGOR AOTEK S. COOP</td>
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<td>B San Andres 19 20500 Arrasate Mondragon</td>
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<td>Calle Isaac Newton Parque Tecnologico De Madrid 28760 Tres Cantos</td>
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INFORMATION TECHNOLOGY FOR MARKET LEADERSHIP

Greece

EU contribution
€ 138 750

Address
Katechaki 22
115 25 Athina

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

LABORATORIO IBERICO INTERNACIONAL DE NANOTECNOLOGIA

Portugal

EU contribution
€ 105 000

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4715 330 Braga

Activity type
Research Organisations

Website

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TECO AS

Czechia

EU contribution
€ 112 500

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Prumyslova Zona Staralka 984
280 02 Kolin

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

OPEN ENGINEERING SA

Belgium
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<td>€ 175 437,50</td>
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NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO

Netherlands

EU contribution

€ 85 379

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Anna Van Buerenplein 1
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EDILASIO CARREIRA DA SILVA LDA

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EU contribution

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SIEMENS INDUSTRY SOFTWARE SAS

France

EU contribution

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40064 Ozzano Dell’emilia
Activity type
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UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA
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€ 180,381,25
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EVIDENCE SRL
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EU contribution
€ 158,625
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IKERLAN S. COOP
Spain
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NICOLAS CORREA SA
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€ 86 406,25
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UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK
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EU contribution
€ 174 126,75
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Website
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JOHNSON & JOHNSON VISION CARE IRELAND UNLIMITED COMPANY

Ireland

EU contribution
€ 126 089,06

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Limerick

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

NEXPERIA BV

Netherlands

EU contribution
€ 215 625

Address
Jonkerbosplein 52
6534 AB Nijmegen

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

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GEFRAN DRIVES AND MOTION SRL

Italy

EU contribution
€ 155 150,94

Address
Via Giosue Carducci 24
21040 Gerenzano (Va)

Activity type
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(excluding Higher or Secondary Education Establishments)

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Last update: 26 November 2020
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