Digital Technologies, Advanced Robotics and increased Cyber-security for Agile Production in Future European Manufacturing Ecosystems

Fact Sheet

Project Information

TRINITY
Grant agreement ID: 825196

Funded under
INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

DOI
10.3030/825196

Total cost
€ 16 335 948,75

EU contribution
€ 15 997 267,25

Coordinated by
TAMPEREEN KORKEAKOULUSAATIO SR
Finland

Project description

Coming together and agilely responding to the need for digital innovation around robotics

Agile manufacturing refers to the ability of businesses to respond quickly to customer needs with new product development and delivery to market. It is of increasing importance in today’s rapidly changing market conditions and will be supported by next-generation robotic technologies and Industry 4.0. The EU-funded TRINITY
project is strengthening Europe’s position by creating a network of multidisciplinary and synergistic local digital innovation hubs focused on agile production that will include researchers and companies implementing solutions. The network will also offer consulting services for business planning and accessing financing, propelling Europe to the forefront of agile manufacturing and robotics.

Objective

The main objective of TRINITY is to create a network of multidisciplinary and synergistic local digital innovation hubs (DIHs) composed of research centers, companies, and university groups that cover a wide range of topics that can contribute to agile production: advanced robotics as the driving force and digital tools, data privacy and cyber security technologies to support the introduction of advanced robotic systems in the production processes. The result will be a one-stop shop for methods and tools to achieve highly intelligent, agile and reconfigurable production, which will ensure Europe’s welfare in the future. The network will start its operation by developing demonstrators in the areas of robotics we identified as the most promising to advance agile production, e.g. collaborative robotics including sensory systems to ensure safety, effective user interfaces based on augmented reality and speech, reconfigurable robot workcells and peripheral equipment (fixtures, jigs, grippers, ...), programming by demonstration, IoT, secure wireless networks, etc. These demonstrators will serve as reference implementation for two rounds of open calls for application experiments, where companies with agile production needs and sound business plans will be supported by TRINITY DIHs to advance their manufacturing processes. Besides technology-centered services, primarily laboratories with advanced robot technologies and know-how to develop innovative application experiments, TRINITY network of DIHS will also offer training and consulting services, including support for business planning and access to financing. Services of participating DIHs and dissemination of information to wider public will be provided through a digital access point that will be developed in the project. Another important activity of the project will be the preparation of a business plan to sustain the network after the end of the project funding.

Fields of science

engineering and technology › mechanical engineering › manufacturing engineering
natural sciences › computer and information sciences › internet › internet of things
social sciences › economics and business › business and management › innovation management
engineering and technology › electrical engineering, electronic engineering, information engineering ›
electronic engineering › robotics
natural sciences › computer and information sciences › computer security
Programme(s)

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)  

Topic(s)

DT-ICT-02-2018 - Robotics - Digital Innovation Hubs (DIH)

Call for proposal

H2020-DT-2018-2020

See other projects for this call

Sub call

H2020-DT-2018-1

Funding Scheme

IA - Innovation action

Coordinator

TAMPEREEN KORKEAKOUULUSAATIO SR

Net EU contribution

€ 9 123 750,00

Address

Kalevantie 4

33100 Tampere

Finland

Region

Manner-Suomi > Länsi-Suomi > Pirkanmaa
Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution
€ 0,00

Participants (16)

CENTRIA AMMATTIKORKEAKOULU OY
Finland
Net EU contribution
€ 549 000,00

Address
Talonpojankatu 2
67100 Kokkola

Region
Manner-Suomi > Pohjois- ja Itä-Suomi > Keski-Pohjanmaa

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution
€ 0,00

UNIVERSITETET I TROMSOE - NORGES ARKTISKE UNIVERSITET
Norway
Net EU contribution
€ 587 125,00

Address
Hansine Hansens Veg 14
9019 Tromso
Region
Norge > Nord-Norge > Troms og Finnmark
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network  
Non-EU contribution
€ 0,00

INSTITUT JOZEF STEFAN
Slovenia
Net EU contribution
€ 476 562,50
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Jamova 39
1000 Ljubljana
Region
Slovenija > Zahodna Slovenija > Osrednjeslovenska
Activity type
Research Organisations
Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network  
Non-EU contribution
€ 0,00

PANEPISTIMIO PATRON
Greece
Net EU contribution
€ 751 875,00
Address
University Campus Rio Patras
265 04 Rio Patras

Region
Αχαΐα > Δυτική Ελλάδα > Κεντρική Ελλάδα

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation  
Website  
Participation in EU R&I programmes  
HORIZON collaboration network  

Non-EU contribution
€ 0,00

BUDAPESTI MUSZAKI ES GAZDASAGTUDOMANYI EGYETEM

Hungary

Net EU contribution
€ 393 750,00

Address
Muegyetem Rakpart 3
1111 Budapest

Region
Közép-Magyarország > Budapest > Budapest

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation  
Website  
Participation in EU R&I programmes  
HORIZON collaboration network  

Non-EU contribution
€ 0,00

FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV

Germany

Net EU contribution
Hansastraße 27c
80686 München

Bayern > Oberbayern > München, Kreisfreie Stadt

Research Organisations

Non-EU contribution
€ 0,00

Oude Diestersebaan 133
3920 Lommel

Vlaams Gewest > Prov. Limburg (BE) > Arr. Maaseik

Research Organisations

Non-EU contribution
€ 0,00
ELEKTRONIKAS UN DATORZINATNU INSTITUTS

Latvia

Net EU contribution

€ 293 750,00

Address

Dzerbenes Iela 14
1006 Riga

Region

Latvija > Latvija > Riga

Activity type

Research Organisations

Links

Contact the organisation Website
Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution

€ 0,00

LEUVEN SECURITY EXCELLENCE CONSORTIUM L-SEC VZW

Belgium

Net EU contribution

€ 563 750,00

Address

Kasteelpark Arenberg 10
3001 Leuven

SME

Yes

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

Other

Links

Contact the organisation Participation in EU R&I programmes HORIZON collaboration network

Non-EU contribution

€ 0,00
Fastems Oy Ab
Finland
Net EU contribution
€ 272 475,00
Address
Tuotekatu 4
33840 Tampere
Region
Manner-Suomi > Länsi-Suomi > Pirkanmaa
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Non-EU contribution
€ 116 775,00

LP-MONTAGETECHNIK GMBH
Germany
Net EU contribution
€ 175 131,00
Address
In Der Reuth 111
91056 Erlangen
SME
Yes
Region
Bayern > Mittelfranken > Erlangen, Kreisfreie Stadt
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation Website
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<th>Organisation</th>
<th>Country</th>
<th>Net EU Contribution</th>
<th>Address</th>
<th>SME</th>
<th>Region</th>
<th>Activity Type</th>
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<td>F6S NETWORK LIMITED</td>
<td>United Kingdom</td>
<td>€ 152 950,00</td>
<td>124 City Road, City Road, EC1V 2NX London</td>
<td>Yes</td>
<td>London &gt; Inner London — East &gt; Haringey and Islington</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<td>UAB CIVITTA</td>
<td>Lithuania</td>
<td>€ 150 325,00</td>
<td>Gedimino Avenue 27, 01104 Vilnius</td>
<td>Yes</td>
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Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Non-EU contribution
€ 64,425,00

THIRD-PARTY
UAB MEDIAPARK
Lithuania

Net EU contribution
€ 39,375,00

Address
Gedimino Pr 27
01104 Vilnius

Region
Lietuva > Sostinės regionas > Vilniaus apskritis

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

Links
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Participation in EU R&I programmes
HORIZON collaboration network

Non-EU contribution
€ 16,875,00

COMITE EUROPEEN DE COOPERATION DES INDUSTRIES DE LA MACHINE-OUTIL CECIMO AISBL
Belgium

Net EU contribution
€ 281,875,00

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1200 Bruxelles
TOPPINDUSTRISENTERET AS

Norway

Net EU contribution

€ 916 250,00

Address

Gaustadalleen 21
0349 Oslo

SME

Yes

Region

Norge > Oslo og Viken > Oslo

Activity type

Other

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Non-EU contribution

€ 0,00