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

Start date
1 January 2019

End date
31 December 2022

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)

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 KORKEAKOULUSAATIO SR

€ 9 123 750,00

Address

Kalevantie 4
33100 Tampere
Finland

Region

Manner-Suomi > Länsi-Suomi > Pirkanmaa
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
Other funding
€ 549 000,00

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

Other funding
€ 587 125,00

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INSTITUT JOZEF STEFAN

Slovenia

Net EU contribution
€ 476 562,50

Address
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

Other funding
€ 476 562,50

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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 🌐

Other funding
€ 751 875,00

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 🌐

Other funding
€ 393 750,00

FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV

Germany
Net EU contribution
€ 676 823,75

Address
Hansastraße 27c
80686 München

Region
Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type
Research Organisations

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

Other funding
€ 676 823,75

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FLANDERS MAKE

Belgium

Net EU contribution
€ 592 500,00

Address
Oude Diestersebaan 133
3920 Lommel

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

Activity type
Research Organisations

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

Other funding
€ 592 500,00

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ELEKTRONIKAS UN DATORZINATNU INSTITUTS

Latvia
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
Other funding
€ 563 750,00
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
Other funding
€ 272 475,00

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
Participation in EU R&I programmes
HORIZON collaboration network
**F6S NETWORK LIMITED**  
United Kingdom  
Net EU contribution  
€ 152 950,00  
Address  
124 City Road, City Road  
EC1V 2NX London  
Region  
London > Inner London — East > Haringey and Islington  
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  
Other funding  
€ 152 950,00

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**UAB CIVITTA**  
Lithuania  
Net EU contribution  
€ 150 325,00  
Address  
Gedimino Avenue 27  
01104 Vilnius  
SME  
Yes  
Region  
Lietuva > Sostinės regionas > Vilniaus apskritis  
Activity type  
Private for-profit entities (excluding Higher or Secondary Education Establishments)  
Links
Other funding

€ 150,325,00

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

Contact the organisation

Participation in EU R&I programmes

HORIZON collaboration network

Other funding

€ 39,375,00

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

Belgium

Net EU contribution

€ 281,875,00

Address

Boulevard Brand Whitlock 165
1200 Bruxelles

SME

Yes

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-
Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type
Other

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

Other funding
€ 281 875,00

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TOPPINDUSTRISENTERET AS
Norway
Net EU contribution
€ 916 250,00

Address
Universitetsgata 2
0164 Oslo

SME
Yes

Region
Norge > Oslo og Viken > Oslo

Activity type
Other

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

Other funding
€ 916 250,00

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