

**HORIZON
2020**

Ecosystem for Collaborative Manufacturing Processes – Intra- and Interfactory Integration and Automation

Fact Sheet

Project Information

COMPOSITION

Grant agreement ID: 723145

[Project website](#) 

DOI

[10.3030/723145](https://doi.org/10.3030/723145) 

Project closed

EC signature date

25 August 2016

Start date

1 September 2016

End date

31 August 2019

Funded under

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

Total cost

€ 7 634 253,75

EU contribution

€ 7 634 253,75

Coordinated by

FRAUNHOFER GESELLSCHAFT
ZUR FORDERUNG DER
ANGEWANDTEN FORSCHUNG
EV



Germany

This project is featured in...



Objective

Data and services have become the key factor in manufacturing processes. The need to react on dynamically changing market demands is dramatically rising. One of the most imperative problems so far is to connect supply chain data and services between enterprises and to connect value chain data within a factory, so that it can meaningfully support decision-making. COMPOSITION will create a digital automation framework (the COMPOSITION IIMS) that optimizes the manufacturing processes by exploiting existing data, knowledge and tools to increase productivity and dynamically adapt to changing market requirements. This technology acts as the technical operating system for business connections between factories and their suppliers. Furthermore, it opens a new space for third party entities to actively interact in the supply chain, e.g. by providing services to improve cycle time, cost, flexibility or resource usage. In addition to the supply chain improvements, also the processes inside the company will be addressed and optimized. Data across the (multi sided) company internal value chain is integrated by an Integrated Information Management System (IIMS) with optimisation and modelling tools for resource management including innovative, multi-level, real-time cross-domain analytics including a Decision Support System. The technology will be based on extending existing FI-WARE and FITMAN catalogues and LINKSmart® Middleware and adapt the concept of Industrial Data Space. COMPOSITION will implement, demonstrate and validate the system in two multi-sided pilots that show the modularity, scalability and re-configurability of the platform across multiple application domains. The first pilot in the biomedical device domain focuses on the integrated information management system in a multi-sided manufacturing process. The second pilot concentrates on the interaction between different companies using the COMPOSITION ecosystem with the agent-based marketplace for collaboration.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [mechanical engineering](#) > [manufacturing engineering](#)

[engineering and technology](#) > [environmental engineering](#) > **[waste management](#)**

[social sciences](#) > [economics and business](#) > [business and management](#) > **[business models](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > **[sensors](#)**

[natural sciences](#) > [biological sciences](#) > [ecology](#) > **[ecosystems](#)**



Programme(s)

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

MAIN PROGRAMME

Topic(s)

[FOF-11-2016 - Digital automation](#)

Call for proposal

[H2020-IND-CE-2016-17](#)

[See other projects for this call](#)

Sub call

H2020-FOF-2016

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



**FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN
FORSCHUNG EV**

Net EU contribution

€ 1 264 437,50

Total cost

€ 1 264 437,50

Address

HANSASTRASSE 27C

80686 Munchen

 Germany 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (11)



BOSTON SCIENTIFIC LIMITED

 Ireland

Net EU contribution

€ 509 401,25

Address

BALLYBRIT BUSINESS PARK

H91 Galway 

Region

Ireland > Northern and Western > West

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](#) 

Total cost

€ 509 401,25



KLEEMANN HELLAS SA

Greece

Net EU contribution

€ 373 750,00

Address

INDUSTRIAL AREA OF STAVROCHORI KILK

611 00 KILKIS

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Κιλκίς

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](#)

Total cost

€ 373 750,00



ATLANTIS ENGINEERING AE

Greece

Net EU contribution

€ 415 625,00

Address

12 KM THESSALONIKIS NEON MOU

570 01 THESSALONIKI

SME

Yes

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

Activity type

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

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

Total cost

€ 415 625,00



NEXTWORKS

 Italy

Net EU contribution

€ 496 375,00

Address

VIA LIVORNESE 1027

56122 Pisa 

SME 

Yes

Region

Centro (IT) > Toscana > Pisa

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](#) 

Total cost

€ 496 375,00



ELLINIKI DIAHEIRISI APPRIMATON ANONYMI ETAIRIA - ELDIA

 Greece

Net EU contribution

€ 225 000,00

Address

12 KM O.N.R. THESSALONIKI KILKI

54500 Thessaloniki 

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

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

Total cost

€ 225 000,00



UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK

Ireland

Net EU contribution

€ 559 040,00

Address

WESTERN ROAD
T12 YN60 Cork

Region

Ireland > Southern > South-West

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

€ 559 040,00



IN-JET APS

Denmark

Net EU contribution

€ 682 750,00

Address

JEPPE AAKJAERS VEJ 15
3460 Birkerød

SME

Yes

Region

Danmark > Hovedstaden > Nordsjælland

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

Total cost

€ 682 750,00



ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS

Greece

Net EU contribution

€ 553 750,00

Address

CHARILAOU THERMI ROAD 6 KM
57001 Thermi Thessaloniki

Region

Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

Activity type

Research Organisations

Links

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

Total cost

€ 553 750,00



CNET SVENSKA AB

Sweden

Net EU contribution

€ 1 027 375,00

Address

SVARDVAGEN 3A

182 33 Danderyd 

SME 

Yes

Region

Östra Sverige > Stockholm > Stockholms län

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](#) 

Total cost

€ 1 027 375,00



FONDAZIONE LINKS - LEADING INNOVATION & KNOWLEDGE FOR SOCIETY

 Italy

Net EU contribution

€ 790 500,00

Address

VIA PIER CARLO BOGGIO 61

10138 Torino 

Region

Nord-Ovest > Piemonte > Torino

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 790 500,00



ATOS SPAIN SA



Net EU contribution

€ 736 250,00

Address

CALLE DE ALBARRACIN 25

28037 Madrid 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

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](#) 

Total cost

€ 736 250,00

Last update: 3 September 2022

Permalink: <https://cordis.europa.eu/project/id/723145>

European Union, 2025