Multi-disciplinary integrated simulation and forecasting tools, empowered by digital continuity and continuous real-world synchronization, towards reduced time to production and optimization

Fact Sheet

Project Information

MAYA
Grant agreement ID: 678556

Project website

Start date 1 October 2015
End date 30 September 2018

Funded under H2020-EU.2.1.1.
H2020-EU.2.1.5.1.

Overall budget € 4 645 428,75
EU contribution € 4 015 365,50

Coordinated by TTS TECHNOLOGY TRANSFER SYSTEMS SRL Italy

Objective

MAYA aims at developing simulation methodologies and multidisciplinary tools for the design, engineering and management of CPS-based (Cyber Physical Systems) Factories, in order to strategically support production-related activities during all the phases of the factory life-cycle, from the integrated design of the product-process-production system, through the optimization of the running factory, till the dismissal/reconfiguration phase. The concurrence and the cross-combination of the Cyber and the Physical dimensions with the Simulation domain is considered as cornerstone in MAYA innovations, to successfully address a new generation of smart factories for future industry responsiveness. MAYA finds complete validation in one
factories for future industry responsiveness. MAYA finds complete validation in one of the most competitive, advanced and complex industrial sector in Europe, the automotive, where it will accomplish reduced time to production & reduced time to optimization within two use-cases (Volkswagen and FinnPower).

In order to realize such a vision, MAYA addresses actual technological constraints through research and development activities focusing on the following three high level objectives:
- MAYA for Digital Continuity;
- MAYA for the Synchronization of the Digital and Real Factory;
- MAYA for Multidisciplinary integrated simulation and modelling.

MAYA’s concept and motivation have been born within the framework set by the Pathfinder initiative, and represent a concrete first step to empower the vision there drafted, and consolidated thanks to the contribution of several academic experts and industrial key-players (http://www.pathfinderproject.eu/contributors.asp).

Programme(s)
Topic(s)

Call for proposal
H2020-FoF-2015

Funding Scheme
RIA - Research and Innovation action

Coordinator

TTS TECHNOLOGY TRANSFER SYSTEMS SRL

Address
Largo Caleotto 1
23900 Lecco Lc
Italy

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

EU contribution
€ 499 500

Website
Contact the organisation

Participants (10)

SIEMENS INDUSTRY SOFTWARE LTD
Israel
EU contribution
€ 550 250
Address 2 Negev St
7019900 Airport City
Activity type Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Contact the organisation

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SIEMENS AKTIENGESELLSCHAFT
Germany
EU contribution € 351 747
Address Werner-von-siemens-str. 1
80333 Munchen
Activity type Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
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SYNESIS-SOCIETA CONSORTILE A RESPONSABILITA LIMITATA
Italy
EU contribution € 400 750
Address Via Cavour 2
22074 Lomazzo Co
Activity type Other
Contact the organisation

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SCUOLA UNIVERSITARIA PROFESSIONALE DELLA SVIZZERA ITALIANA
Switzerland
EU contribution € 0
Address Stabile Le Gerre
6928 Manno
Activity type Higher or Secondary Education Establishments
Website
Contact the organisation

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POLITECNICO DI MILANO
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ROPARDO SRL
Romania
EU contribution
€ 192 500
Address
Str Reconstructiei 2A
550129 Sibiu
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Website
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CONSIGLIO NAZIONALE DELLE RICERCHE
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Activity type
Research Organisations
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