Create and Harvest Offerings to support Manufacturing SMEs to become Digital Twin Champions

Fact Sheet

Project Information

<table>
<thead>
<tr>
<th>Change2Twin</th>
<th>Funded under</th>
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<td>Grant agreement ID: 951956</td>
<td>H2020-EU.2.1.1.</td>
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<th>Status</th>
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<td>Ongoing project</td>
<td>€ 8 960 414</td>
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<th>Start date</th>
<th>End date</th>
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<tr>
<td>1 June 2020</td>
<td>31 May 2024</td>
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<th>Coordinated by</th>
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<tr>
<td>SINTEF AS</td>
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<td>Norway</td>
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Project description

Making digital twins available to European manufacturers

The EU-funded Change2Twin project (part of I4MS) helps manufacturing SMEs in their digitalisation efforts to deploy digital twins. The concept of digital twins is one of the big game-changers in manufacturing and allows companies to significantly increase their global competitiveness. A digital twin is a digital replica of an artefact, process or service that is so accurate that it can be used as a basis for taking decisions. The digital replica is often connected with the physical world by streams of data. Change2Twin offers manufacturing SMEs a tailor-made solution including the analysis of their potential, an individual mentoring plan, and a ready-to-use recipe for digital twin deployment. Digital Innovation Hubs are important partners in this
process and will facilitate the uptake of the latest digital twin technologies across the European Union.

Objective

The main ambition of Change2Twin is to ensure that 100% of manufacturing companies in Europe have access to 100% of technologies needed to deploy a digital twin.

Specifically, we will focus on three sub-objectives:
- Developing and providing a truly end-to-end service to the manufacturing SMEs where the end user receives from its local, trusted party (e.g. a DIH) a thorough analysis of the digitalization potential and a cross-border, multi-stakeholder (involving both components providers and an integrator), and ready-to-use recipe for implementation.
- Providing an architecture-agnostic technology marketplace with dedicated knowledge models supporting the entity preparing the recipe for a complete solution in selecting the best components and most suitable providers.
- Taking one step back to see the bigger picture and to find the minimal interoperable model facilitating modularity, composability and interchangeability of components used, regardless of the individual architectures or frameworks.

Change2Twin will deliver:
- A new benchmarked service model facilitating DIHs in providing support to manufacturing companies
- A Pan-European marketplace populated with the state-of-the-art service providers that create coverage for end-to-end Digital Twinning solutions
- A growing network of DIHs that have adopted the service model and marketplace based on a sustainable business model
- An open, widely available toolbox for establishing a new marketplace consisting of software and body of knowledge gathered during the project
- 4 Pilots proving the concept and 2 Open Calls for application experiments with a selection and support programme

Programme(s)

Topic(s)
Call for proposal
H2020-DT-2019-2

Funding Scheme
IA - Innovation action

Coordinator

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Activity type
Research Organisations
EU contribution
€ 3 518 202,75

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Participants (17)

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<td>CLOUBROKER GMBH</td>
<td>Switzerland</td>
<td>€ 336,988.75</td>
<td>Heinrichstrasse 267 8005 Zurich</td>
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<td>ASSOCIATION IMAGES &amp; RESEAUX</td>
<td>France</td>
<td>€ 479,600</td>
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<td>INSTYTUT CHEMII BIOORGANICZNEJ POLSKIEJ AKADEMII NAUK</td>
<td>Poland</td>
<td>€ 358,100</td>
<td>Noskowskiego 12-14 61 704 Poznan</td>
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<td>SPACE STRUCTURES GMBH</td>
<td>Germany</td>
<td>€ 98,000</td>
<td>Fanny-zobel-strasse 11 12435 Berlin</td>
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ADDITIVE INDUSTRIES BV
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EU contribution
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<td>CT INGENIEROS AERONAUTICOS DE AUTOMOCION E INDUSTRIALES SL</td>
<td>Spain</td>
<td>€ 66 150</td>
<td>Avenida Leonardo Da Vinci 22, Parque Empresarial La Carpetania La Atalayuela, 28906 Getafe (Madrid)</td>
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<td>AETNA GROUP SPA</td>
<td>Italy</td>
<td>€ 85 452.50</td>
<td>Strade Provinciale Marecchia 59, 47826 Villa Verucchio</td>
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<td>Spain</td>
<td>€ 34 650</td>
<td>Cl Carpinteros 25, 41520 El Viso Sevilla</td>
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