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

Fact Sheet

Project Information

Change2Twin
Grant agreement ID: 951956

Status
Ongoing project

Funded under
H2020-EU.2.1.1.

Overall budget
€ 8 960 414

EU contribution
€ 7 998 718,63

Coordinated by
SINTEF AS
Norway

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. Change2Twin will adopt the best practices developed so far in I4Ms – focus on local support provided by DIHs, keeping FSTP grants as accessible as possible. 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

**Field of science**

/social sciences/economics and business/economics/sustainable economy
## Programme(s)

### Topic(s)

H2020-DT-2019-2

## Funding Scheme

IA - Innovation action

## Coordinator

<table>
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<th>EU contribution</th>
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<td>SINTEF AS</td>
<td>Strindvegen 4</td>
<td>Research Organisations</td>
<td>€ 3 518 202,75</td>
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## Participants (17)

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<td>Schonbrunnerstrasse 7</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
<td>€ 383 417,13</td>
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<td>1040 Wien</td>
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Contact the organisation

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