

CHANGE2TWIN: Post project sustainability approach

AUTHORS

Tor Dokken, SINTEF, Norway
Change2Twin Coordinator

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Digital Twin for every manufacturing SME!

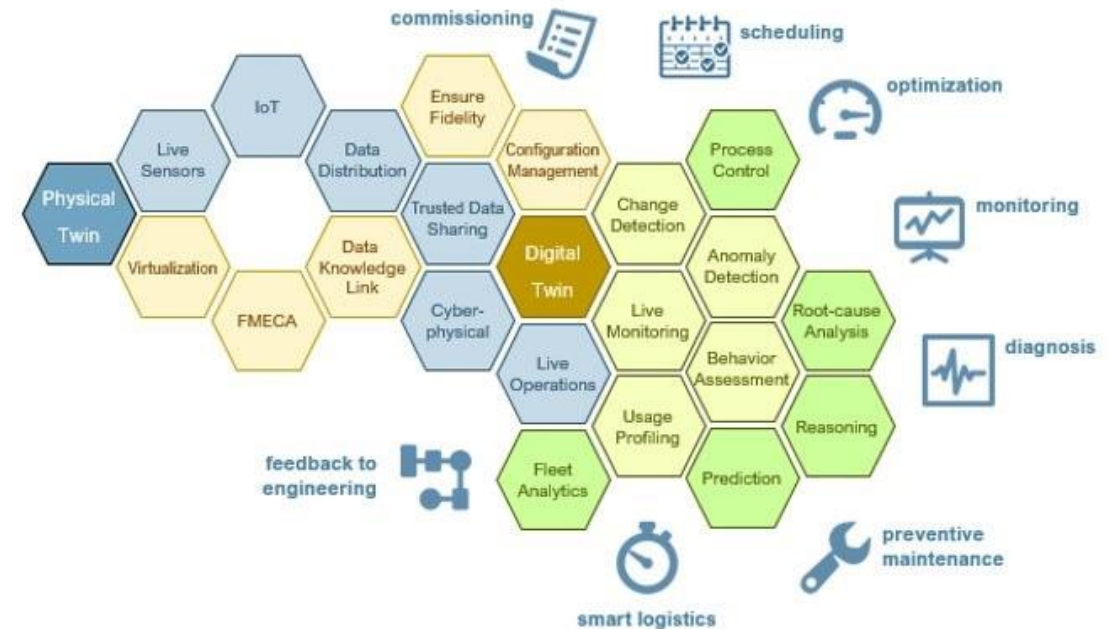
Change2Twin is a European project which supports manufacturing SMEs in their digitalization process by providing Digital Twin solutions. The concept of Digital Twin is one of the big game-changers in manufacturing and allows companies to significantly increase their global competitiveness.



What is a Digital Twin?

A digital twin is a digital replica of an **artefact** (product, machine...), **process** or **service**, which is so accurate that it can be used as **basis for taking decisions**.

The digital replica and the physical world are often **connected by streams of data**.



Contractual numbers

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- Duration: June 1, 2020 – November 30, 2024 (54 months)
- Funding: ~ 8 M€
 - ~ 2.38 M€ used for open call experiments (Cascading funding)
- Partners:
 - 11 core partners
 - 8 partners for pilot experiments two first year, some with continued role
 - ~ 61 Linked Third Parties through Open Call Experiments (FSTP)



Partners

Core partners

- SINTEF, Norway
- TTTech, Austria
- BOC, Austria
- FundingBox, Poland, Spain
- TNO, The Netherlands
- University of Bologna, Italy
- CloudBroker, Switzerland
- Association Images and Reseaux, France
- Poznan Supercomputing and Networking Center, Poland
- clesgo, Germany*

Pilot partners

- SPS, Germany
- Cordis, The Netherlands
- UNIT040**, The Netherlands
- Author**, The Netherlands
- Additive Industries, The Netherlands*
- CT-Ingenieros**, Spain
- AETNA, Italy
- Graphenstone, Spain

Success stories

Pilot experiment

- [Space structures](#)*
- [AETNA/Robopac](#)*
- [Additive industries](#)*
- [Graphenstone](#)

Assessment experiments

- Up to 10€ funding
- [19 assessment experiment 2021](#)
- [14 assessment experiment 2022](#)

Deployment experiments

- Up to 90€ funding
- [10 deployment experiments 2021/22](#)
- [15 deployment experiments 2023/24](#)
- Videos*

DTA/EDIHs changed the landscape

- The original Change2Twin sustainability plan (2019) was to support SMEs through a cross-Europe network of DIHs
- In 2022 the call for EDIHs were launched
 - DTA has a support role for the EDIHs
 - More than 100 EDIHs target Digital Twins
- However,
 - EDIHs are funded to address companies in their region
 - Minimal incentives for cross-region cooperation
 - Several Change2Twin Beneficiaries are partners/closely related to EDIH



Change2Twin sustainability assets

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- Network:
 - Community of Digital Twin Certified DIHs (55 DIHs, 21 countries)
 - Network of competence centers and companies
 - LinkedIn Channel with 1.100+ followers
 - Strong sustainability ambitions among partners
- Website/marketplace with digital contents
 - Position papers, brochures, white papers
 - Open call results and lessons learned
 - YouTube channel with tech talks, success stories, tutorials...
 - A downloadable package for establishing local marketplaces
 - Digital Maturity Assessment Tool
 - Seven steps to Digital Twinning



Revised sustainability approach

- Connect to EDIH Thematic Working Group (TWG) on Data in Manufacturing
 - Make relevant assets from Change2Twin available to the TWG
 - Contribution on Digital Twin challenges, technologies & best practices
 - Initiative through the EDIH Nemonoor where the Change2Twin coordinator is a partner
- Offer the Change2Twin digital infrastructure (clesgo's Agora) as a resource for augmented community cooperation (e.g., for projects, EDIH Thematic working groups and their subgroups)



Status: Digital Infrastructure

- Work started addressing:
 - Support of multiple linked/not linked communities, subcommunities and project on clesgo's Agora. A community could be:
 - A H2020/HEU project or some group/,cluster i.e., a EDIH Thematic Working Group
 - Development of terms-of-use planned to start soon
 - Between the end user and the Agora
 - Between communities and Agora
 - FAQ/Guidance document for community operators
- The parallel I4MS projects Pulsate and DIGITbrain (ended) also use clesgo's Agora.
 - We envisage that the above work will facilitate close post-project cooperation



Any questions? Comments?

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Thank you for your attention!



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