

Enabling technologies for digital twin

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What is a digital twin?

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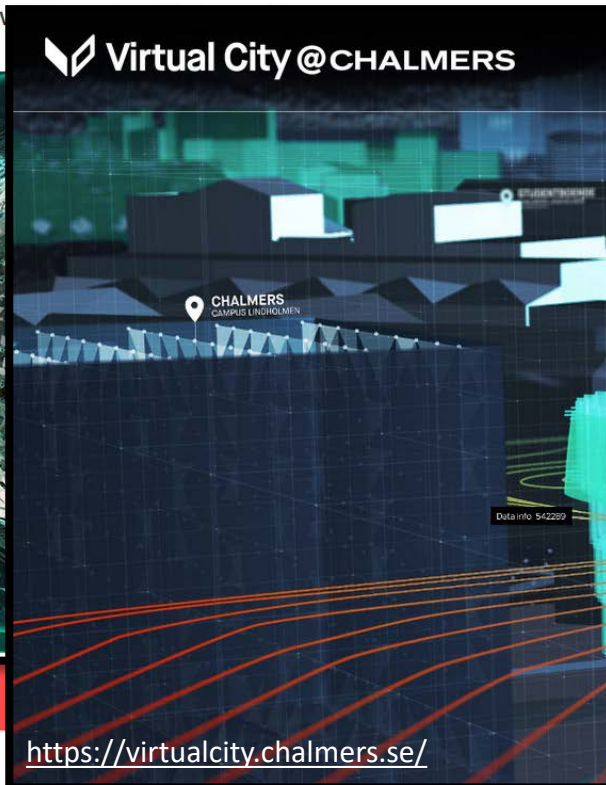
A digital twin is a digital replica of an artefact, process or service that is so accurate that it can be the basis for decisions.

Change2Twin, EU H2020 project

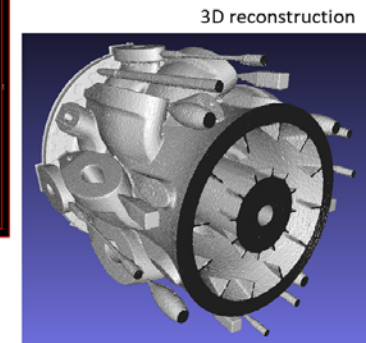
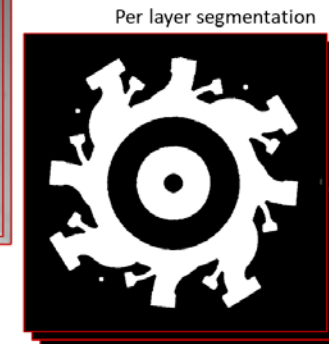
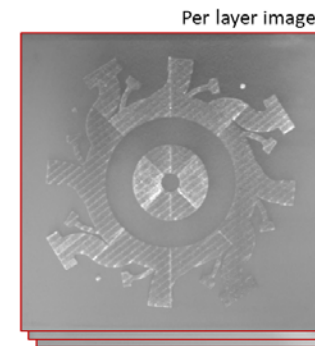


Examples of digital twin

EU skal bygge digitale tvillinger av hele jordkloden



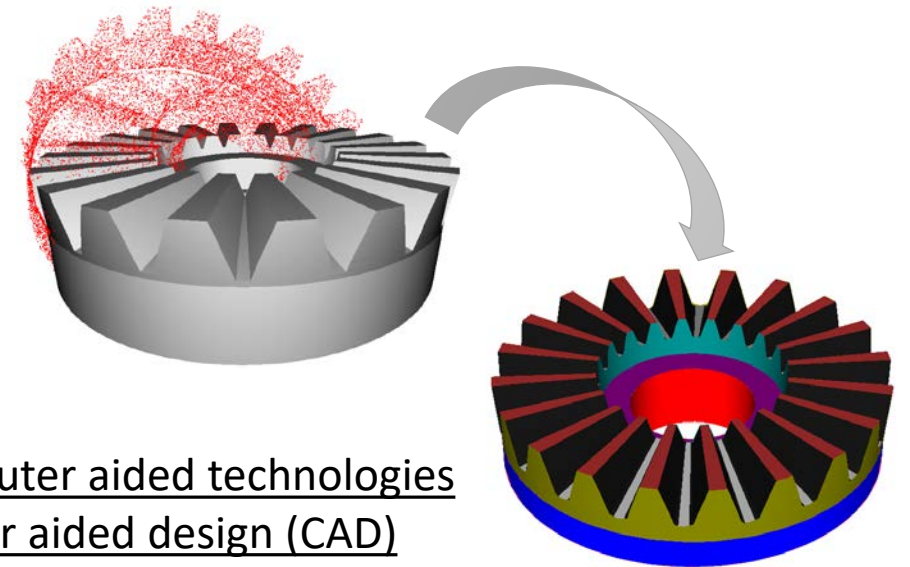
Digital twin of additive manufacturing process



Data: Additive Industries

Digital twinning

- **Modelling the digital twin**
- Keeping the digital twin updated
- Embedding knowledge in the digital twin
- Processing the digital twin
- Interacting with the twin
- Bringing it all together

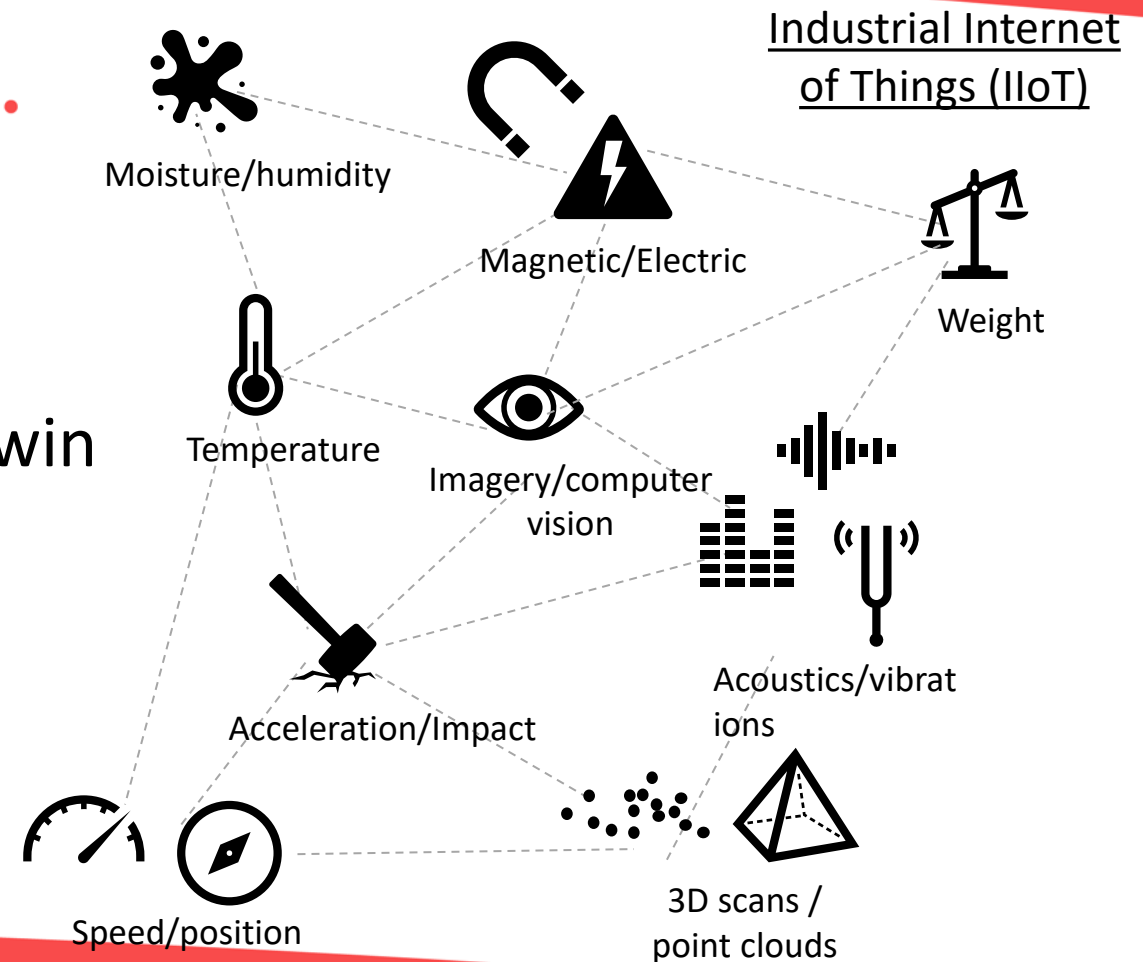


CAX = Computer aided technologies

- Computer aided design (CAD)
- Computer aided engineering (CAE)
- Computer aided manufacturing (CAM)

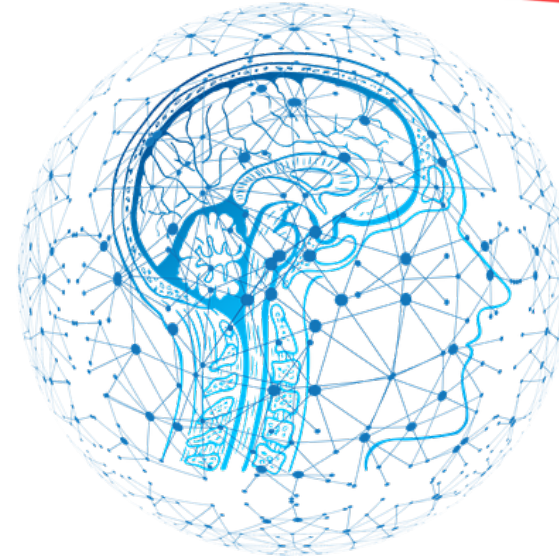
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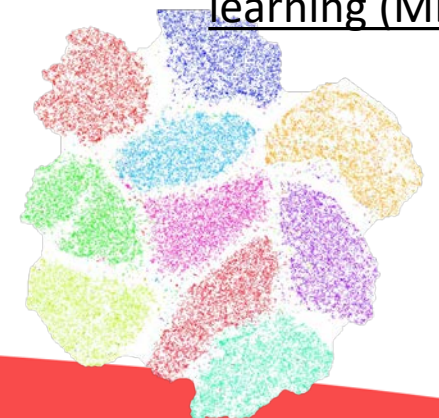
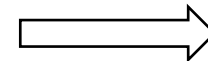
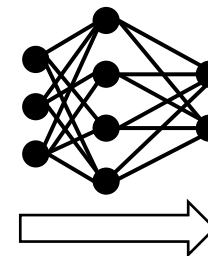
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Artificial
intelligence
(AI)

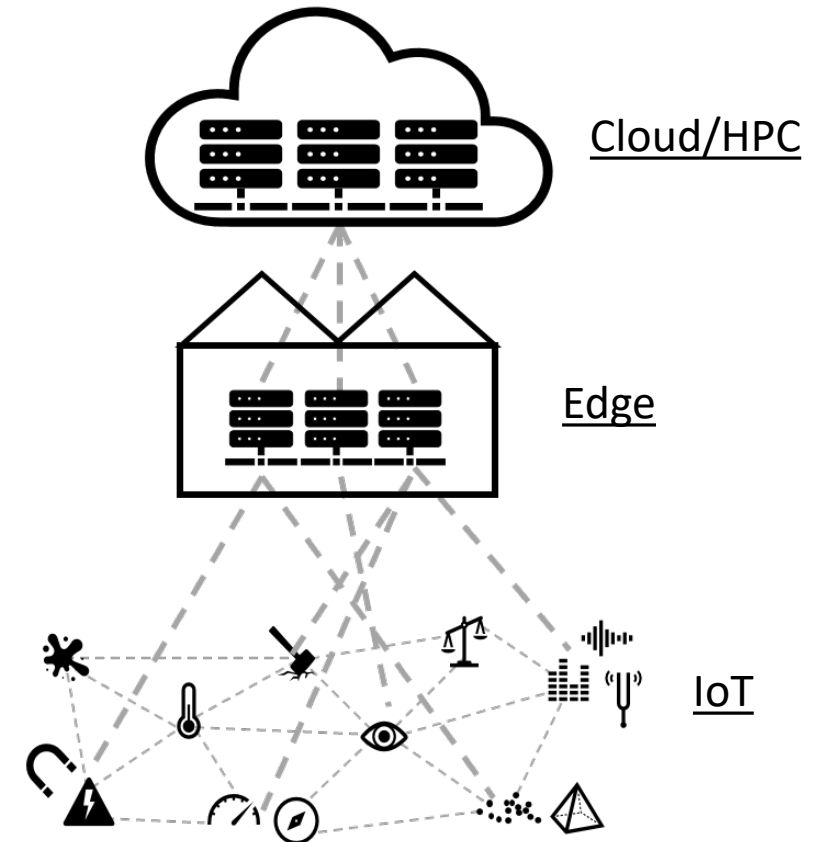
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Machine
learning (ML)

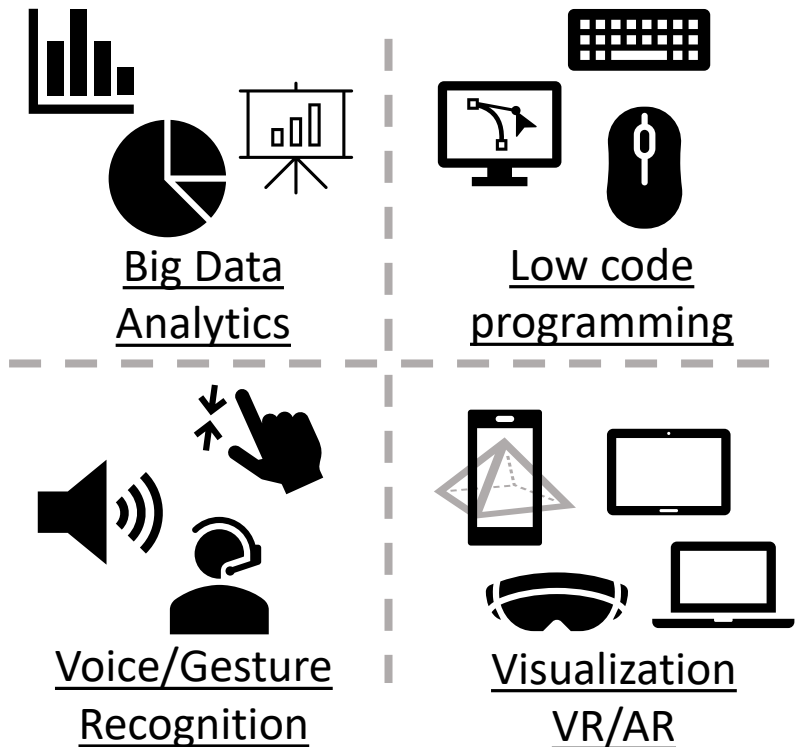
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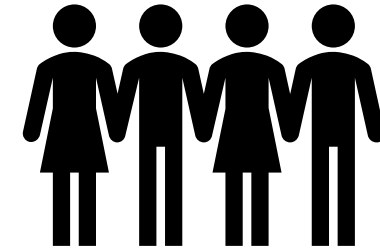
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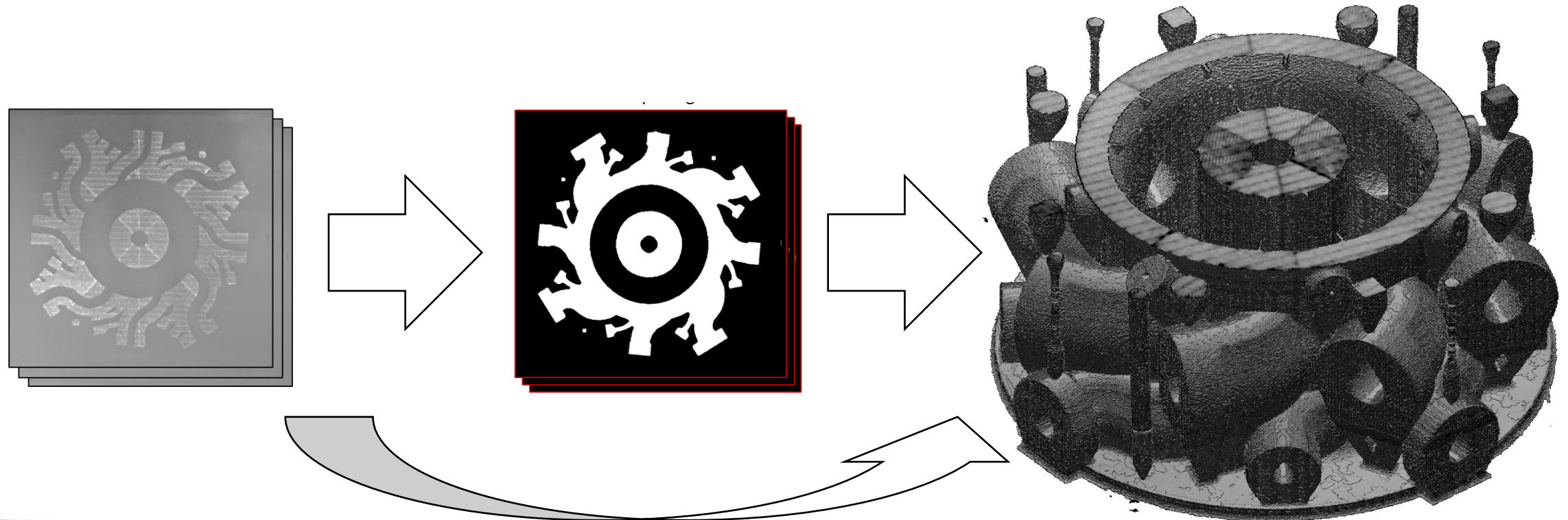


Involvement of all stakeholders



Product lifecycle
management & standards

Specific use case: Additive Manufacturing



More about Change2Twin

A decorative horizontal line consisting of a series of red dots, located below the main title.

- Change2Twin is a European project which supports manufacturing SMEs in their digitalization process by providing Digital Twin solutions.
- Assessment Open Calls (up to € 10.000 / project) ~~Jan 2021~~/Jul 2022
- Deployment Open Calls (up to € 90.000 / project) Jun 2021/Dec 2022
- Website: www.change2twin.eu
- Position paper: <https://lnkd.in/eCvyE8E>



CHANGE2TWIN