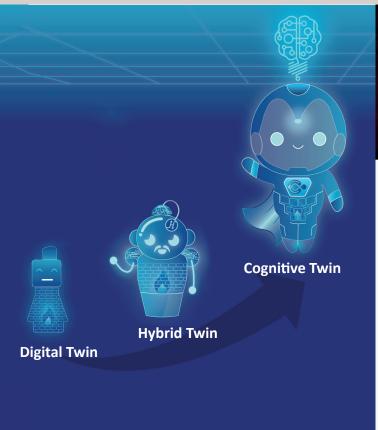


COGNIFY THE PROCESS INDUSTRY

VISION AND MISSION

CONSORTIUM

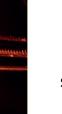




COGNITWIN will enhance the potential of the process industry in Europe by creating and validating a new approach for cognitive digital twins affordable for all process industries.

The COGNITWIN toolbox will be validated in the following SPIRE process industry sectors:

- Non-Ferrous (Aluminium and Silicon)
- Steel
- Engineering































PROJECT COORDINATOR

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1

From the detection of anomalies...

2

...over the integrative prediction of unusual behavior...

3

...toward the solution for unknown situations.

DIGITAL TWIN

A **digital twin** is a formal digital representation of an asset that captures attributes and behaviors of that asset.

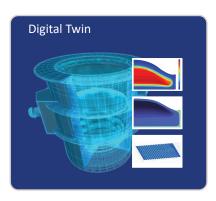
HYBRID TWIN

COGNITWIN will revolutionize digital twins to **hybrid twins** by intertwining different models to achieve higher predictive capabilities and greater potential for industrial applications.

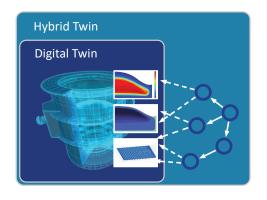
COGNITIVE TWIN

COGNITWIN will empower the process industry with **cognitive twins** to find new answers to emerging questions by marrying the expert knowledge with the power of hybrid analytics.

MULTIPLE ISOLATED MODELS



SYMBIOSIS AMONG THE MODELS



SYNERGY WITH EXPERT AND PROBLEM-SOLVING KNOWLEDGE

