

An ITEA / Penta-Euripides Smart engineering project

ASIMOV



The power of digital twins and AI for cyber-physical systems

Project summary

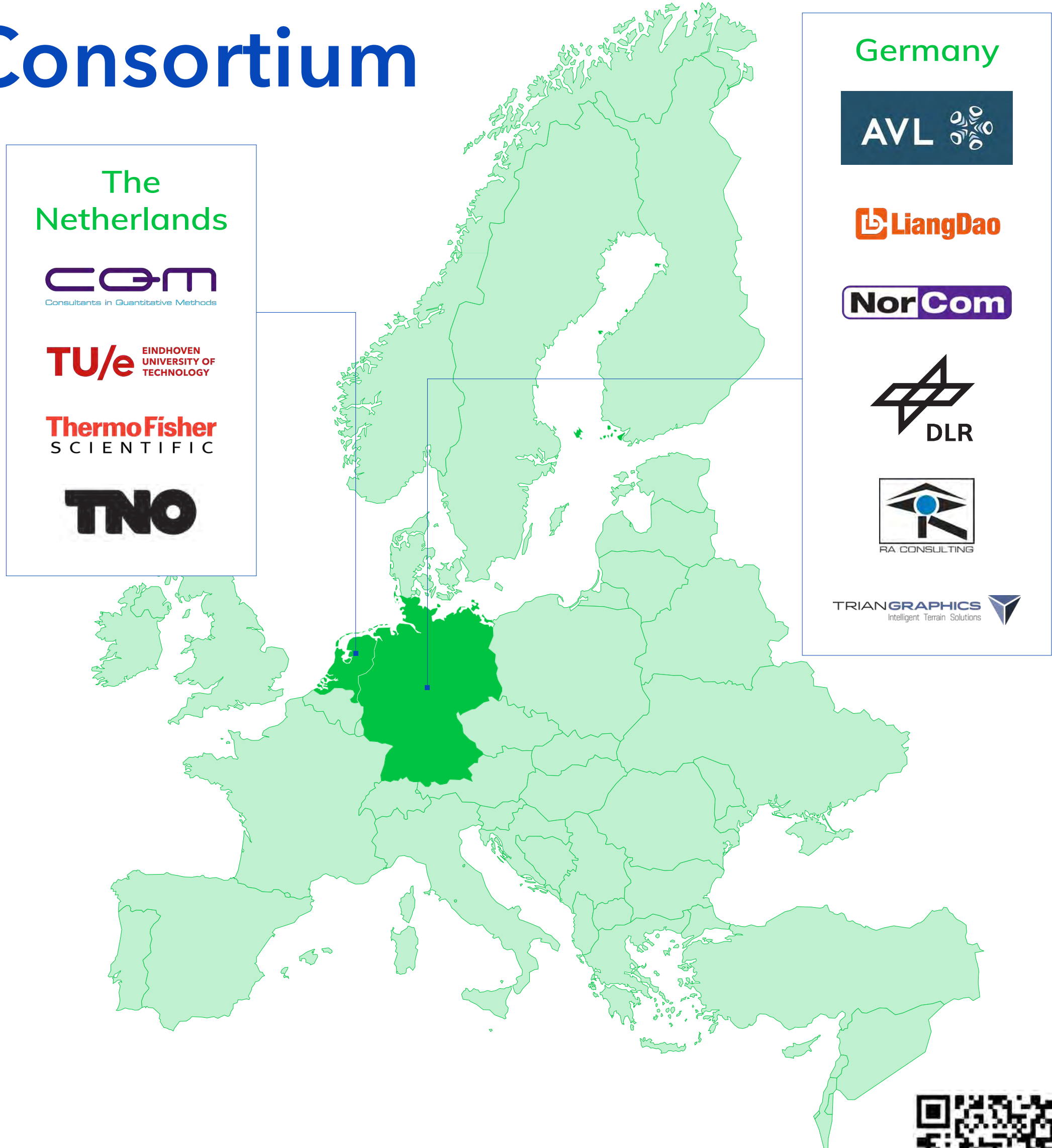
As cyber-physical systems (CPS) grow more complex, self-optimisation becomes increasingly desirable. The Joint AI Call 2020 project ASIMOV (AI training using Simulated Instruments for Machine Optimisation and Verification) aims to realise this via the combination of innovative digital twinning and AI technologies.



SCAN ME

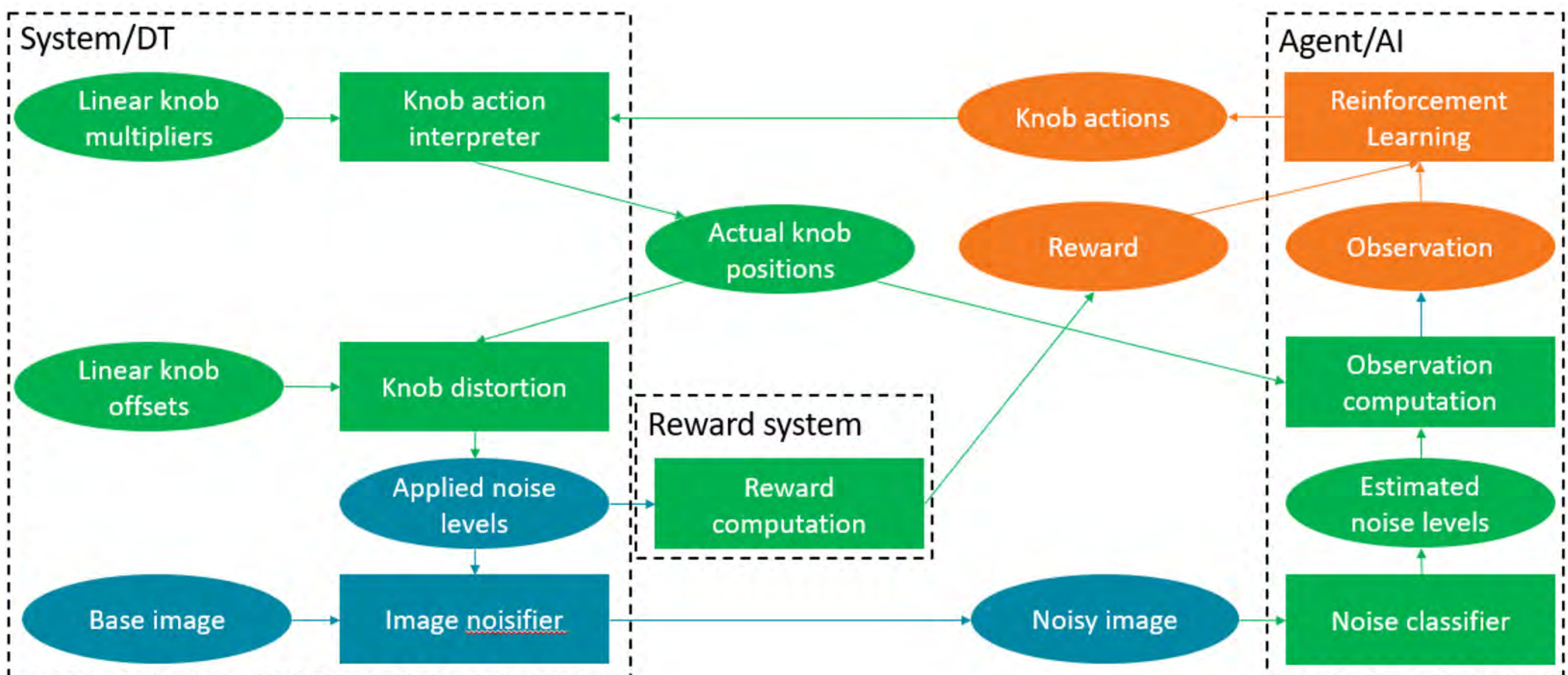
<https://asimov-project.eu>

Consortium



ASIMOV in a Nutshell

Explore the impact of digital twinning modelling decisions and the systems engineering challenges imposed by RL.



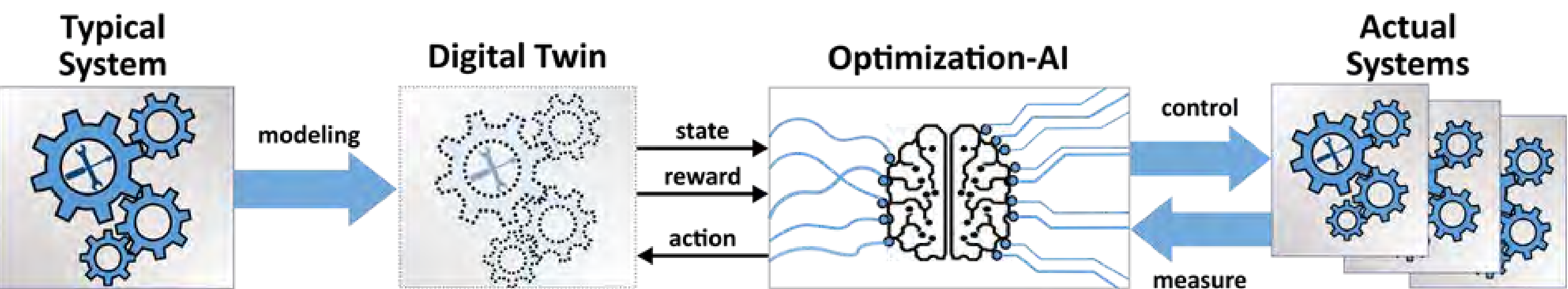
Project duration

June 2021 - June 2024

Project key results

- > Consideration on parameter identifications for Digital Twin
- > Architecture of optimized Digital Twin
- > Architecture for Digital Twin based AI training
- > Methods and tools for training AI with Digital Twin

Sytems optimisation



ASIMOV Cookbook

Read about the best practices and lessons learned identified by the consortium. It provides a starting point for system architects and system engineers that are faced with the question:
How to build complex high-tech CPSs that select their optimal settings autonomously within minimal time and with minimal external expertise?



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