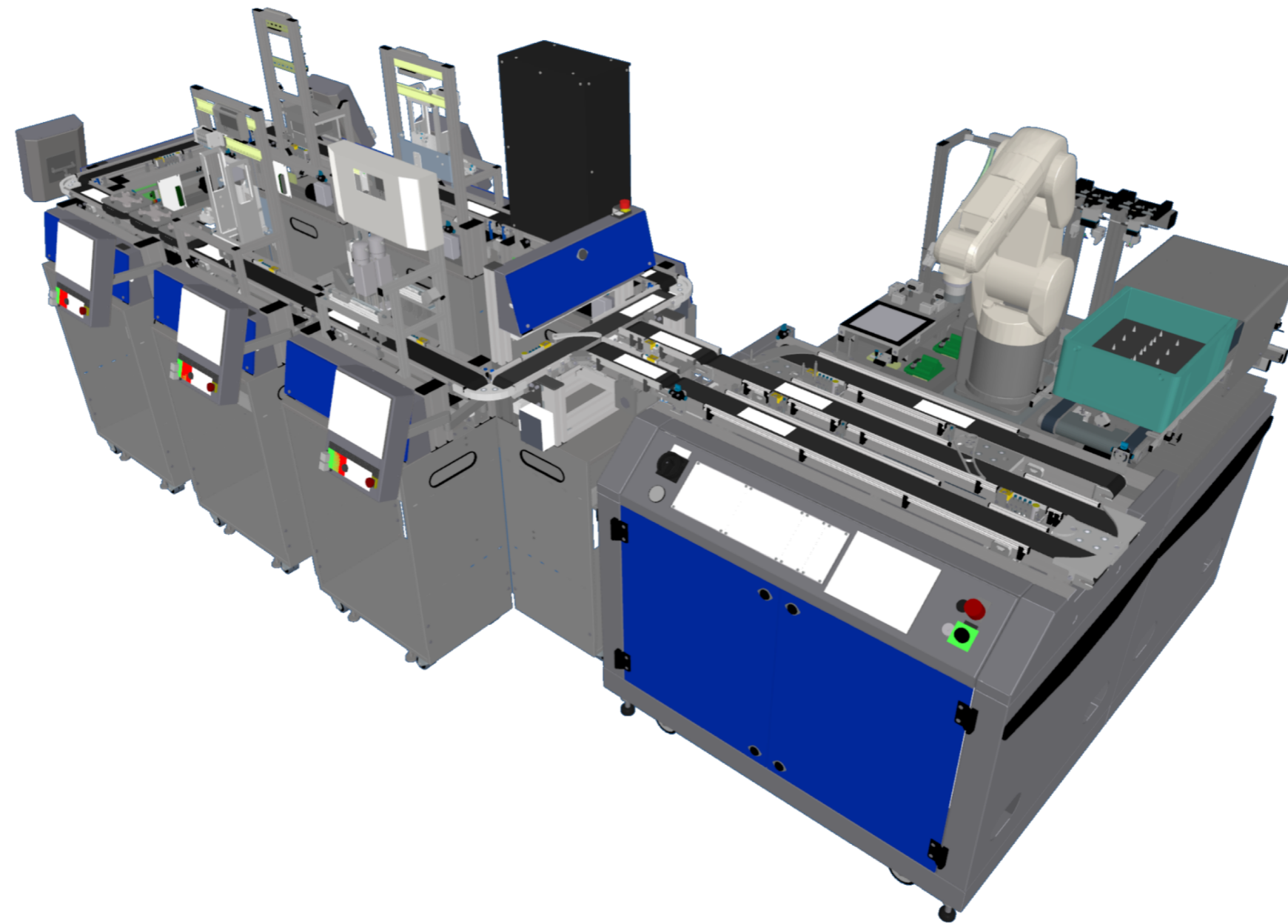




MANUFACTURING SME AND CHALLENGE

Digital Twin
implementation for the
I4.0Lab of
Polytechnic of Milan.

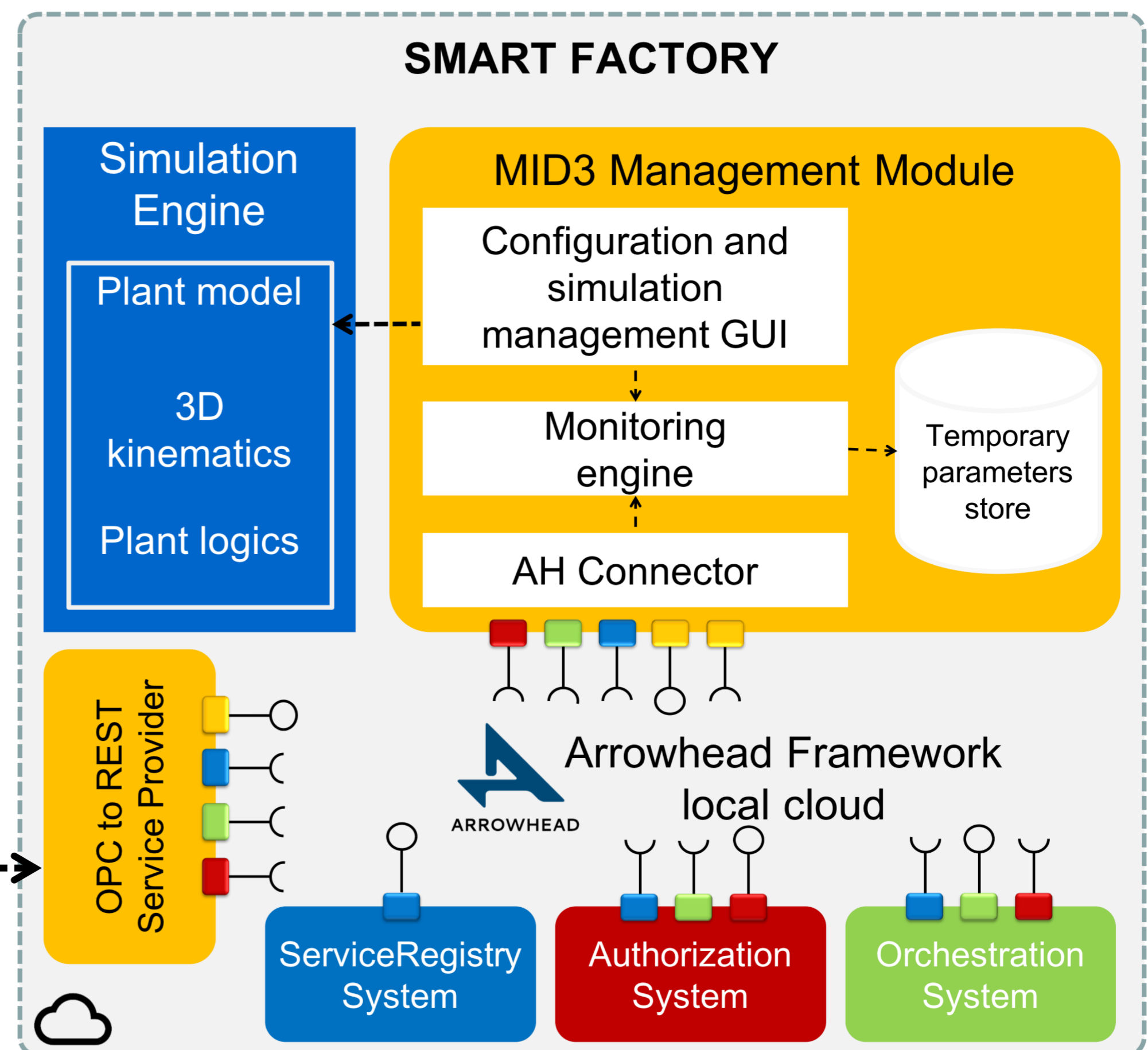
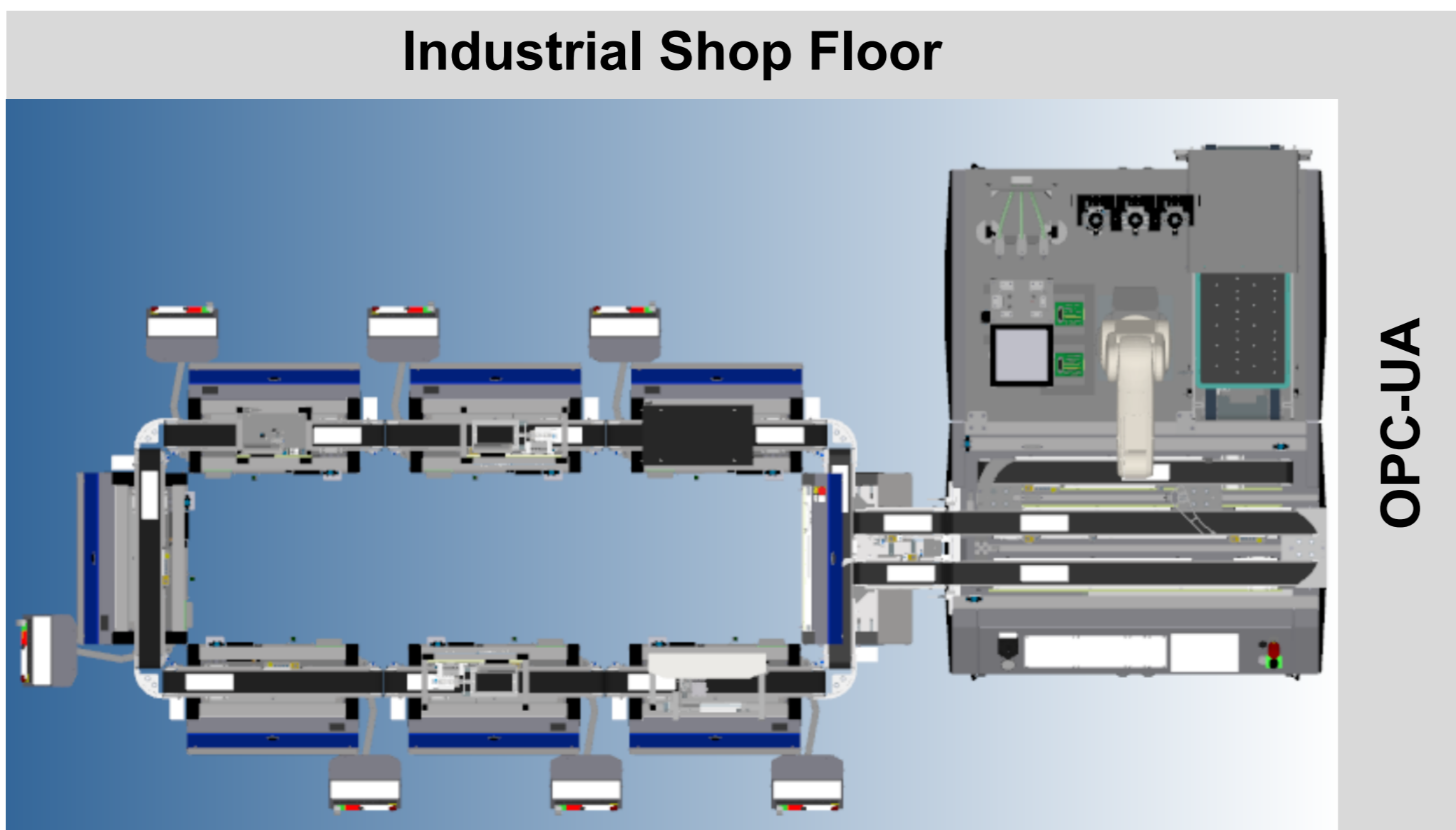


Evolving digital profile,
mirroring the real system
behaviour, for
performance prediction and
optimization.



SOLUTION: ARCHITECTURE AND COMPONENTS

ArrowHead Framework to interface the Digital Twin
Simulation with Discrete Manufacturing Machine Tools
and Robots of the Industrial Shop Floor



BENEFITS AND LESSON LEARNT

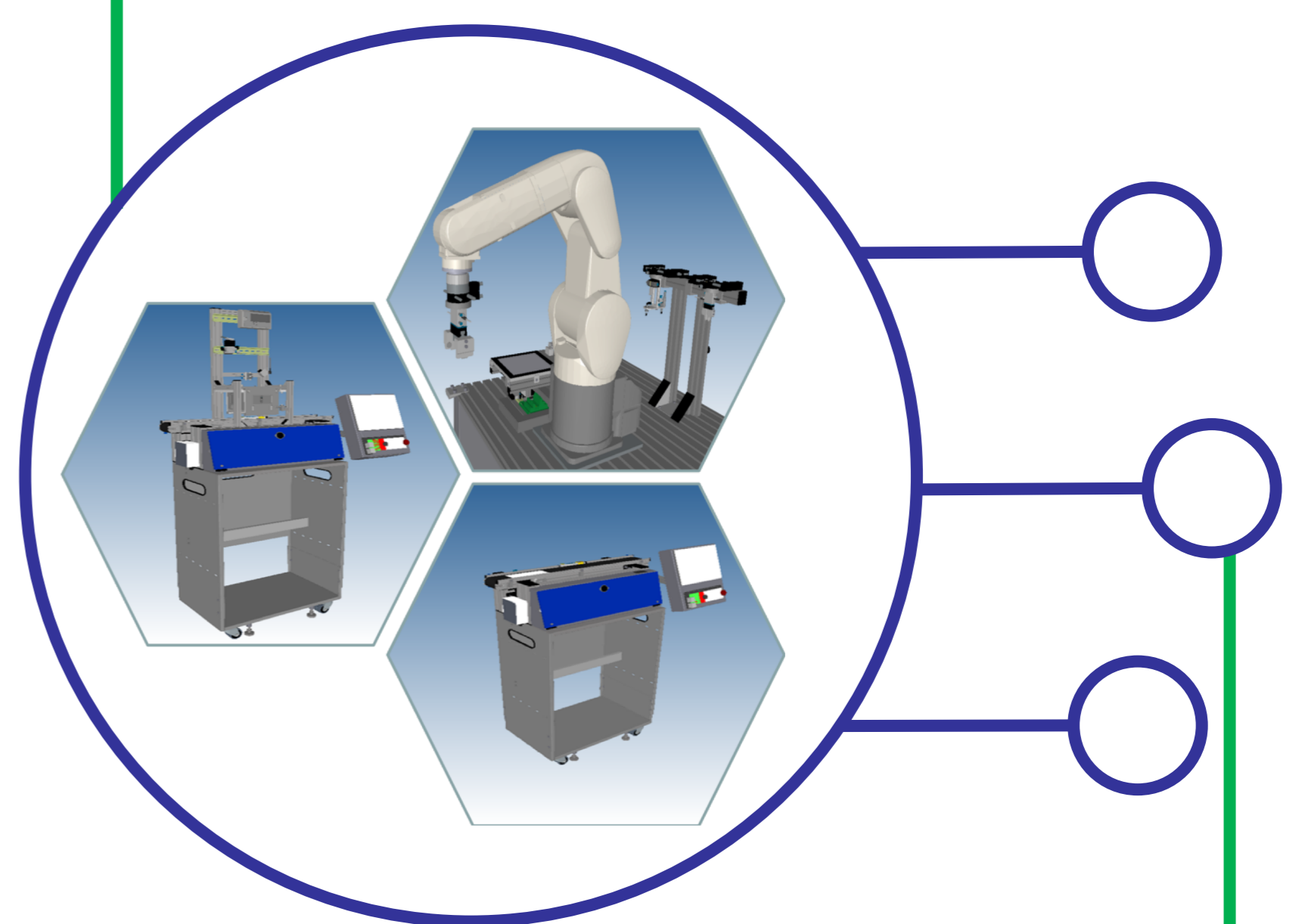
Real to digital mirroring means being able to
simulate the behavior of the real system with an
error < 10%

Real applications give **immediate perception of all**
the potentialities of I4.0 technologies.

The possibility to collaborate on the extension and
enhancement of **open frameworks** like Arrowhead
and Fiware creates value for the whole ecosystem.

OUTLOOK

Improve the Digital Twin modularity level



Move towards "Digital Twin as a service"