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Expert and Machine Digital Twins for Nuclear Systems Analysis

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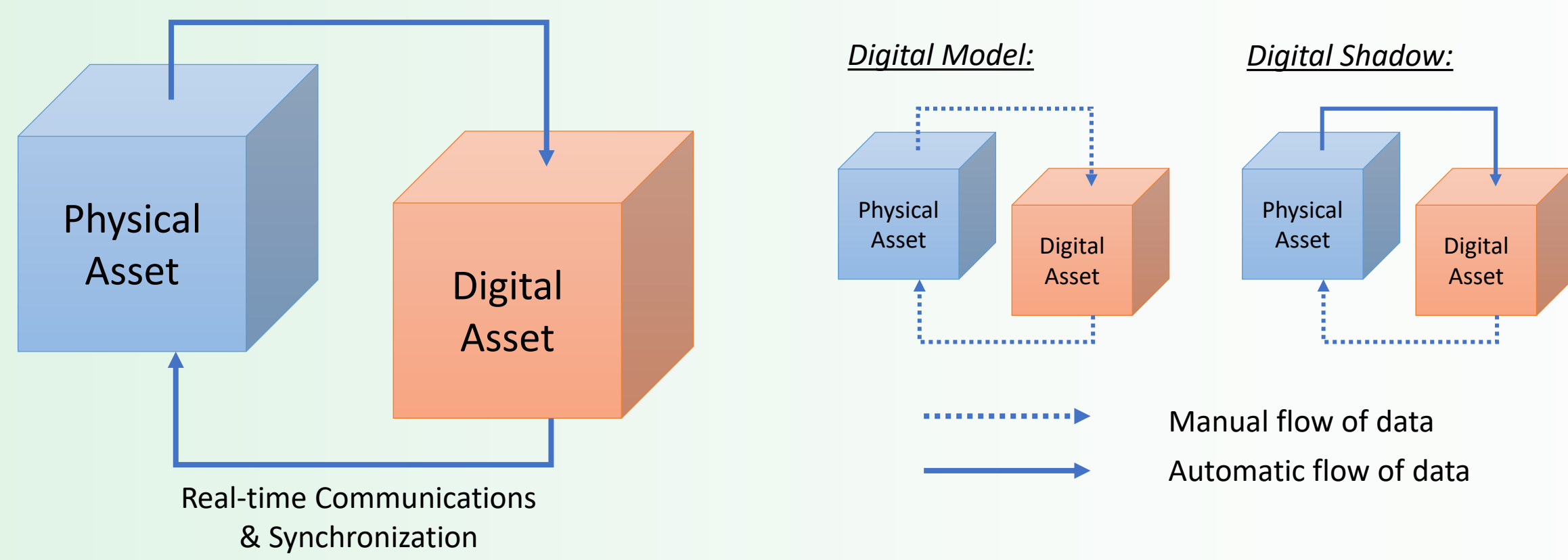


LinkedIn

What is a Digital Twin?

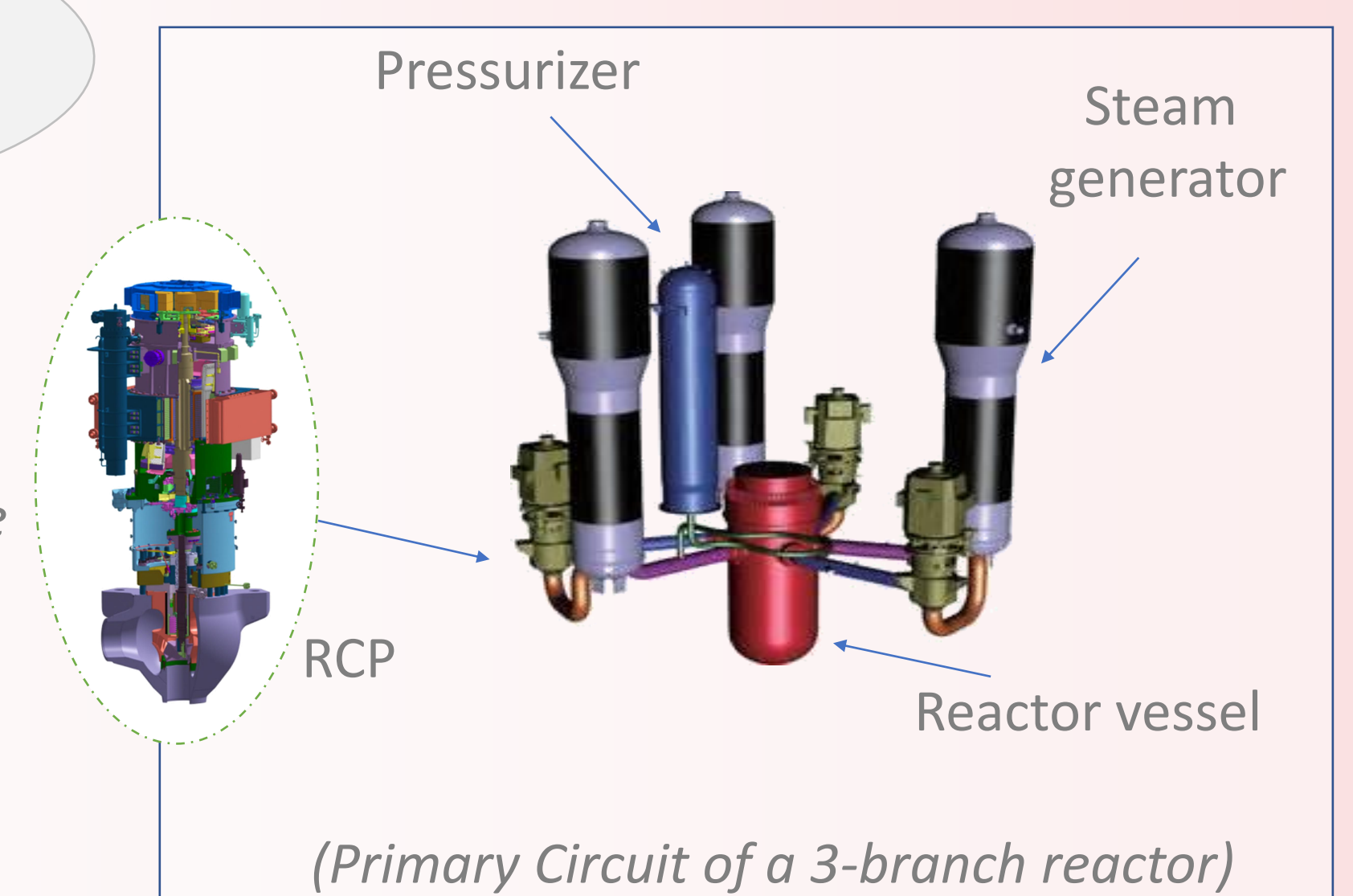
"A Digital Twin is a virtual representation of an object or system that [...] is updated from real-time data and uses simulation, machine learning and reasoning to help decision-making." source: IBM

Digital Twin:



What is a RCP?

RCP is a rotary machine which circulates the reactor coolant at high temperature and pressure in a PWR nuclear power plant.



Which challenges to face?

- Build efficient AI models (RNN, ES, XAI)
- Make accept the collaboration Expert/AI
- Keep Experts competent through use and time
- Support RCP systems from 40 to 60 years minimum

EXPERIA is an application designed to assist experts in their activities of diagnosis and pronosis of Reactor Coolant Pumps. EXPERIA host Automation, Digital Twins solutions and AI models to perform efficient assistance and results.

