

Industry lead logistics innovation for a more competitive and sustainable industry

The European Technology Platform ALICE

alice | Alliance for
Logistics Innovation
through Collaboration
in Europe

Advancing Inland Waterways with Digital Twins – Exploring CRISTAL project innovations and MultiRELOAD project demonstrator

Digital Twin, what does it mean concretely?

David CIPRES

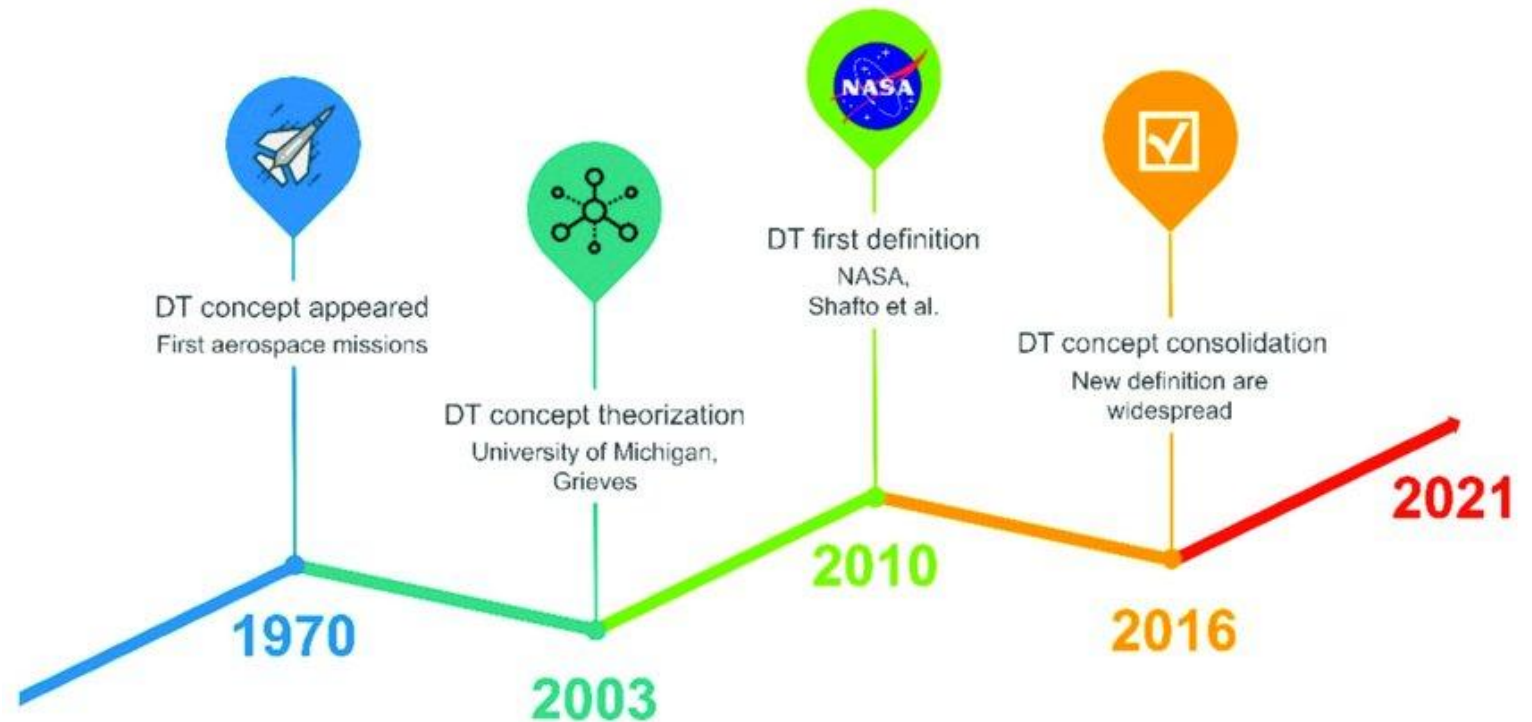


MultiRELOAD
PORT SOLUTIONS FOR SUSTAINABLE MOBILITY

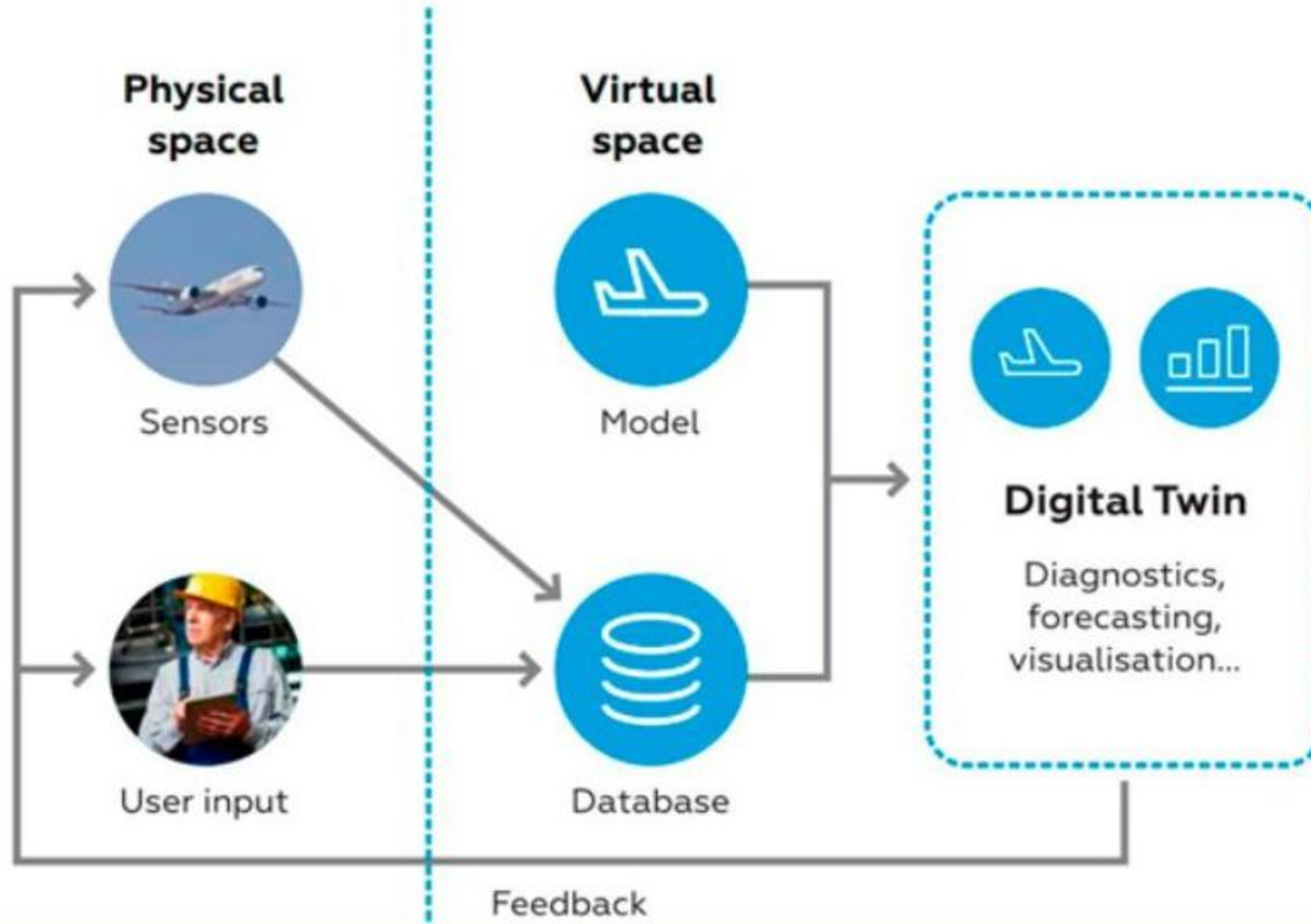


CLIMATE RESILIENT AND ENVIRONMENTALLY
SUSTAINABLE TRANSPORT INFRASTRUCTURE,
WITH A FOCUS ON INLAND WATERWAYS

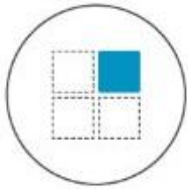
The concept was born at NASA to simulate and monitor mission-critical spacecraft, and has evolved to become a key technology in multiple industries.



DIGITAL TWINS – AN EXAMPLE



From a single component to complex processes, Digital Twins can replicate different levels of a system to optimize its design, operation and maintenance.



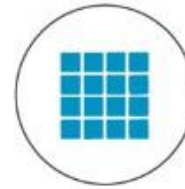
Component/Parts Twins

E.g. rotor, brakes



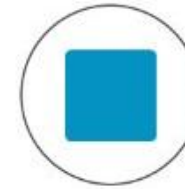
Asset Twins

E.g. engine



System/Unit Twins

E.g. car



Process Twins

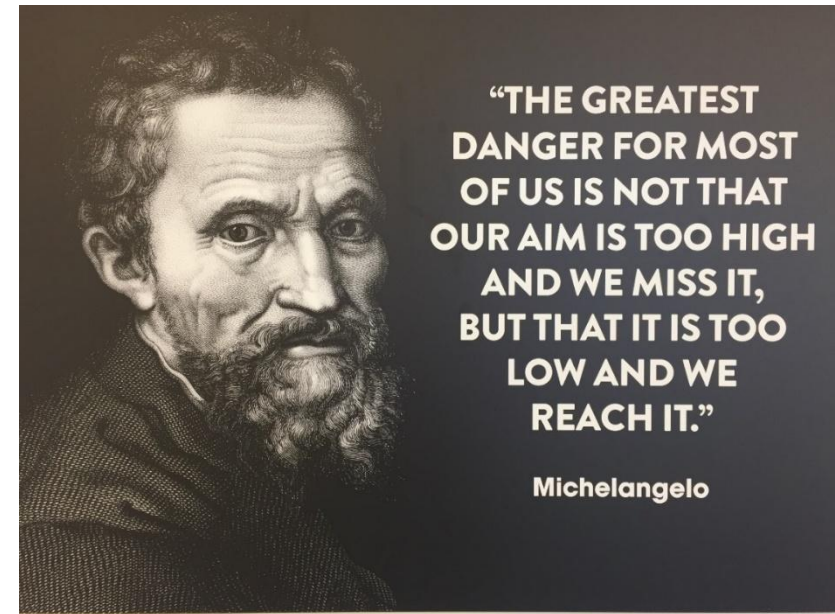
E.g. entire manufacturing process, supply chain



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Thank you!



The Best Way To Predict The Future Is To Co-Create It!

If you want to go fast, go alone If you want to go far, go together



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