

EDUCATIONAL DIGITAL TWINS TO A SUSTAINABLE FUTURE?

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INTRODUCTION

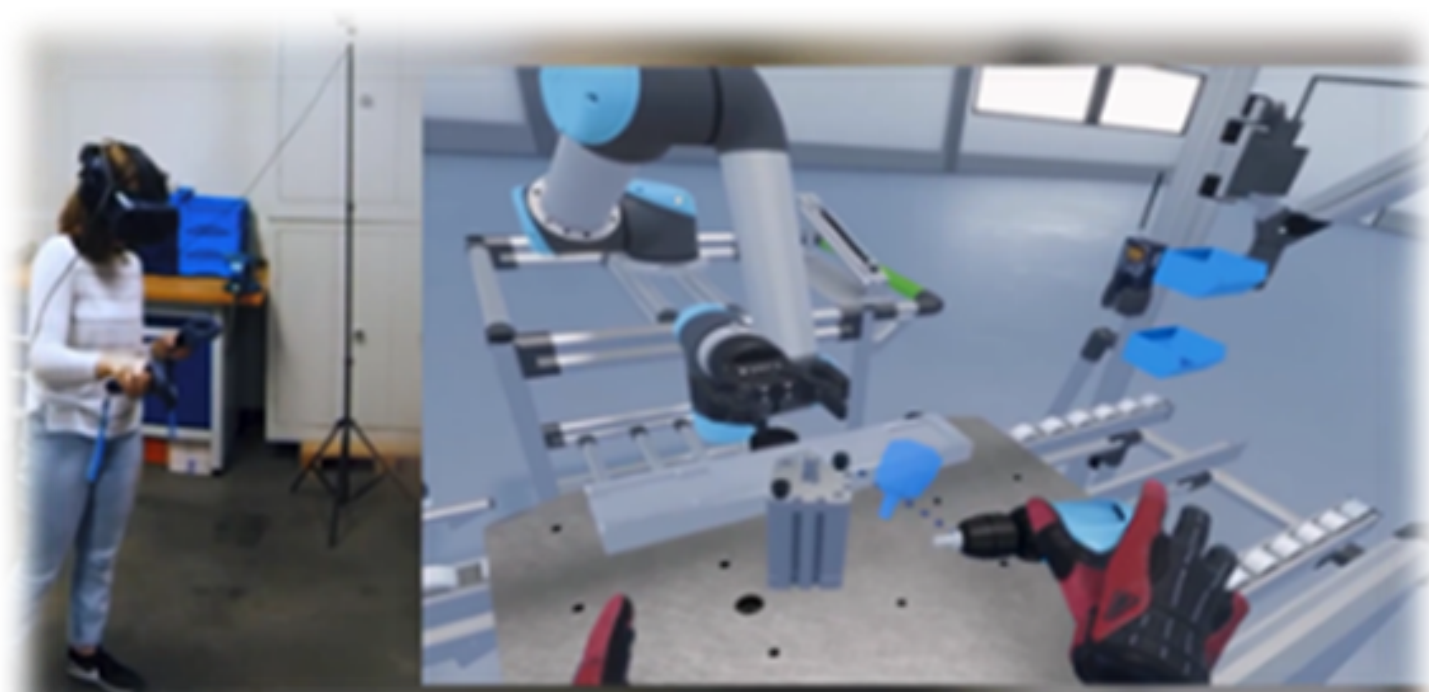
Digital Twins (DTs):

- have evolved over 50 years into multifunctional technologies in industries.
- impacts education and training, creating new professions and demanding specific skills.

Training becomes a targeted application for DT development.

THE STUDY

- is conducted within the "Jumeaux d'Enseignement Numérique Immersifs et Interactifs" project
- documents the introduction of 14 Educational Digital Twins (EDTs) in four French engineering schools.



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SOME FACTS

Definitions of DTs vary among educators, engineers, and developers, reflecting ambiguities regarding this device in training fields. Results show overlaps between DTs and other human learning environments like Virtual Reality (VR) and simulations.

DTs are seen as aids to learning, fostering commitment and reflective awareness, but their effectiveness in developing knowledge and skills remains questionable.

Further study is needed to assess the pedagogical benefits of EDTs regarding their costs (specially ecological ones) and actual use in trainings

Challenges include clarifying definitions and real uses of DTs for learning, but also question the notion of innovation in education.