

"A digital twin is a digital replica of a living or non-living physical entity, such as a manufacturing process, medical device, piece of medical equipment, and even a person... to gain insight into present and future operational states of each physical twin." NIH -Interagency Modeling Analysis WG (2019)

"A Digital Twin is an integrated multiphysics, multiscale, probabilistic simulation of an as-built vehicle or system that uses the best available physical models, sensor updates, fleet history, etc., to mirror the life of its corresponding flying twin"
TA 11 (2010)

"Digital Twin -the application of interdisciplinary modeling and simulation across the product lifecycle."
John Vickers (2021)

"A digital twin is a virtual representation of an object or a system that spans its lifecycle, is updated from real-time data, and uses simulation, machine learning and reasoning to help decision-making." –IBM (2021)

"A digital twin is a virtual replica of an object, being, or system that can be continuously updated with data from its physical counterpart."
Purdy, MIT Sloan