# DIGITAL TWIN

### pSeven USER CONFERENCE 2023

Bruno Trebucq 2023 October







#### Digital Twin: What & Why?

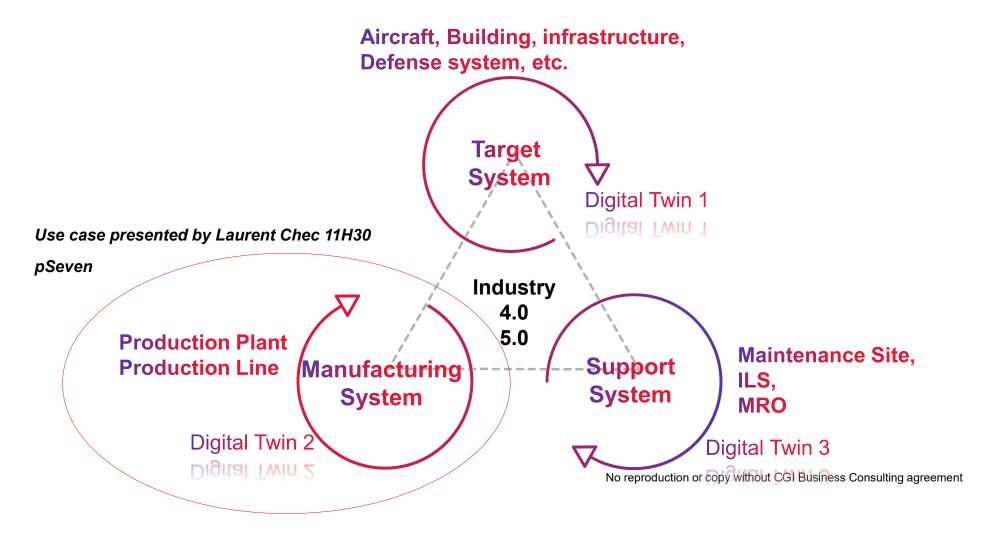
What ? W	'hy ?
synchronized Virtual views of theoPhysical System (Processes, Services) toO	long its <b>whole life cycle</b> , enabling to understand, ptimize, predict and drive Solution Performance & Operations across its usages, real data –based, cquired from on each instance of physical system

- Digital Twin exists as soon as the Physical system is built & alive with its own operational data (real-time and historical)
- Digital Twin has strong foundations into System Engineering and MBSE along its whole life cycle
- > Digital Twin do **not belong to a given function or organization** but is **transverse** to enterprise value chain
- Digital Twin is **not a unique tool** but a **world of unique**, **consistent and continuous models and data**



3

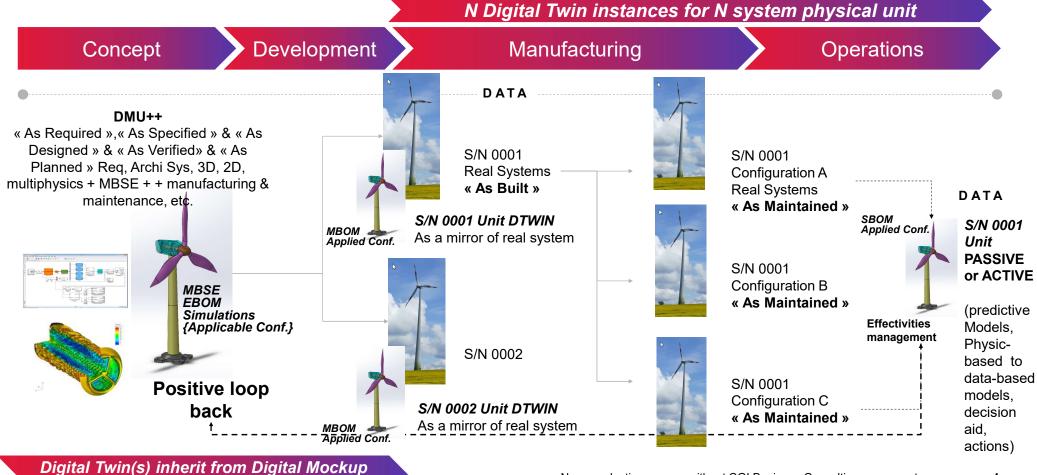
#### 3 main types of Systems with their own DIGITAL TWIN





#### What is a Digital Twin?

(Definition, Archi, Sim., Predict. Models etc.)

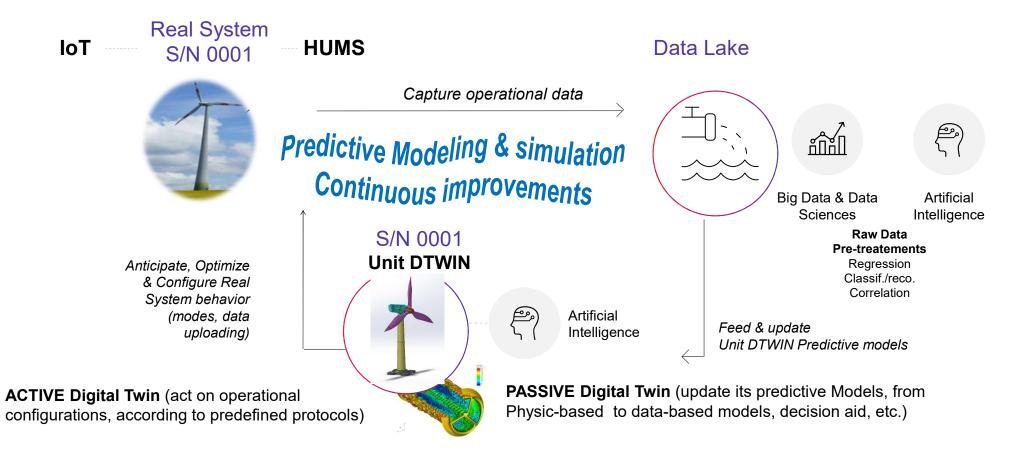


No reproduction or copy without CGI Business Consulting agreement

4

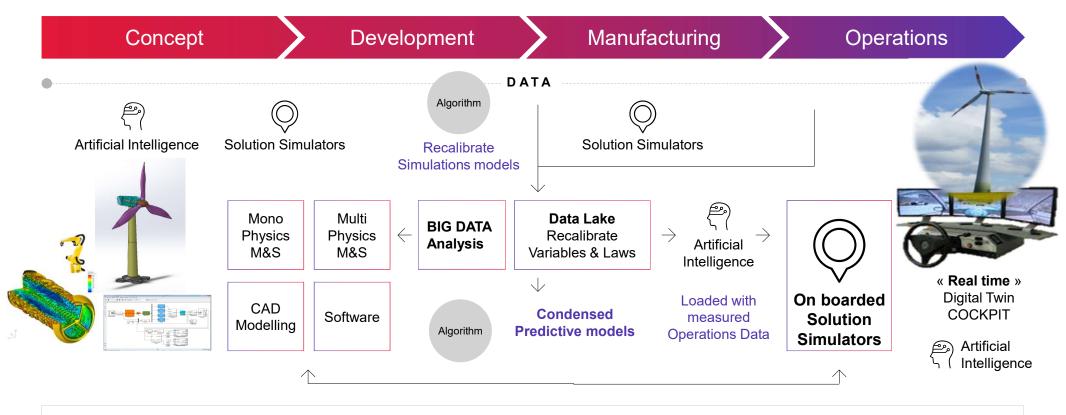
CGI BUSINESS CONSULTING

#### What is a Digital Twin?





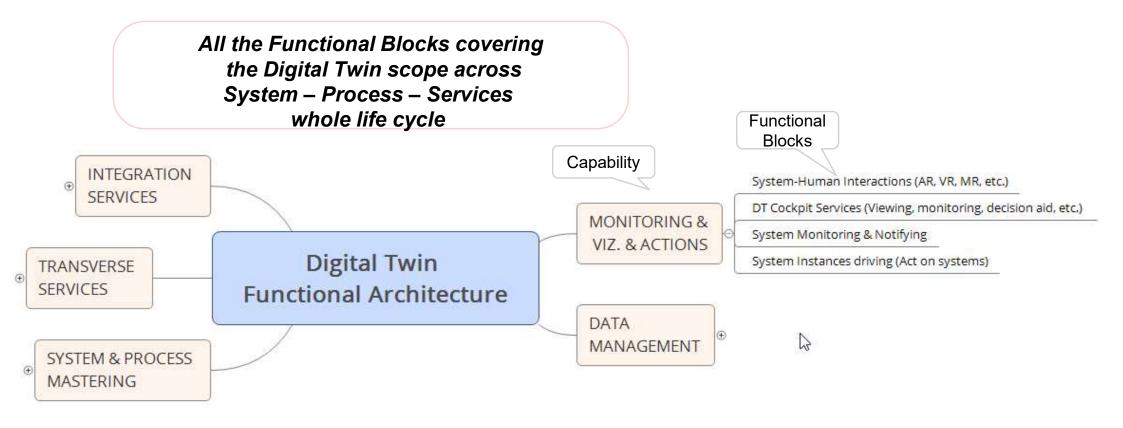
#### Our Vision for real operational digital twin



Data access & edition for Enterprise and its Partners, Suppliers, Customers, according to rights



#### Digital Twin Architecture: 5 Capabilities & 40 Functional Blocks



## Thank you

*"Knowledge helps one know of a problem or situation and how it came to happen.* 

Intelligence, on the other hand, helps an individual to design ways to deal with that situation or solve the problem at hand"

> CGI BUSINESS CONSULTING

cgi.com