digital twin™

CONSORTIUM

Digital Twin Consortium Charter

Digital Twin Consortium™ enables organizations to reduce the risk, maximize the benefits and influence the direction of digital twins by collaborating within an ecosystem of fellow technology users. By delivering relevant guidance, reference implementations and high-quality open source software, the consortium helps companies succeed with digital twin technology. Applicable to a wide range of environments, digital twin technology enables decision makers to better understand how technology deployments could impact their physical environments through the use of a virtual model and simulation. Members from many industries, including property management, construction, healthcare, military, manufacturing, energy production and others develop technical guidance to drive safer and more efficient deployments. Its global membership is committed to using digital twins throughout their operations and supply chains and capturing best practices and standards requirements for themselves and their clients.

The Consortium will discuss and deliver:

- A shared terminology for digital twins and related technology
- Shared guidance and best practices for delivering digital twins across industrial sectors, focusing on raising the level of the use and understanding of the technology, especially in sectors that are less mature
- Support for the adoption of the digital twin process by collating the value driven out by proponents of those processes
- Open source reference implementations of digital twins within and across various vertical markets
- Recognition of common attributes of digital twins to codify requirements for standards for digital twins for portability and interoperability within and across vertical markets, and the development of substantive relationships with leading standards organizations to realize those standards
- Sufficient guidance and open source code to enable tool chain interoperability
- Sufficient guidance to move each industry from a fragmented, opaque and one-off project-based approach to a systems-based way creating, recognizing, disseminating and embodying organizational knowledge, enabling continuous improvement
- Identification of joint development activities on a non-competitive basis that everyone needs to do, such as security, hyperscale infrastructure, and so on
- Assistance for regulatory and government bodies to alter their existing procedures to accept digital exchange with digital twins to derive value from the approach, and shorten approval times for industry