Digital Twin Consortium and NTT DATA Announce COMPOSE Testbed to Advance Scalable Digital Twin Adoption

NTT DATA Chile and an ecosystem of partners; advancing modular, interoperable digital twin architectures for asset-intensive industries



Digital Twin Consortium, an EDM Association Community



NTT DATA Logo

BOSTON, MA, UNITED STATES, September 14, 2026 / EINPresswire.com/ -- The Digital Twin Consortium® (DTC™) and NTT DATA, a global leader in AI, digital business technology services, today announced COMPOSE – Composable Operational Microfactory Platform for Smart Enterprises, a new DTC testbed led by NTT DATA Chile and developed in collaboration with an initial ecosystem of partners including Aingura IIoT, XMPro, Crysp and Rowan University. COMPOSE showcases a modular and scalable approach to digital twin architectures for asset-intensive industries.

> Composable digital twin architectures unlock scalable, efficient and cross-industry solutions, an important step enabling organizations to realize measurable operational impact."
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> *Dr. Carlos Toro, Innovation Director at NTT DATA Chile*

The COMPOSE testbed is built around a physical microfactory that replicates real industrial operations in a controlled environment. It connects machines, sensors and software through common industrial standards, enabling continuous data collection and practical experimentation with digital twin solutions.

"COMPOSE exemplifies the future of digital twin innovation—modular, interoperable and built for scale," said Dan Isaacs, GM & CTO of the Digital Twin Consortium. "By creating a vendor-agnostic, composable architecture, we're enabling organizations to accelerate adoption, reduce integration complexity and unlock new levels of efficiency, including validation of multi-agent-based autonomous processes and operations. This testbed represents a collaborative ecosystem that

will help enable standardization, processes and foster innovation."

"Through COMPOSE, we aim to demonstrate how composable digital twin architectures can unlock scalable, efficient and cross-industry solutions. This testbed represents an important step in driving standardization, accelerating adoption and enabling organizations to realize measurable operational impact," said Dr. Carlos Toro, Testbed Lead Developer and Innovation Director at NTT DATA Chile.

Its composable, vendor-agnostic architecture allows technologies to be integrated and reconfigured as modular components, accelerating the validation of new ideas without requiring the redesign of complete systems. This flexibility is particularly relevant for asset-intensive industries such as manufacturing, mining, utilities and oil & gas, where operational visibility, early fault detection and process optimization can deliver measurable business value.

COMPOSE also serves as a collaborative ecosystem within the Digital Twin Consortium community. NTT DATA's microfactory provides real industrial data and a shared testing environment, enabling members to integrate their technologies, develop use cases and evaluate their combined performance. New contributors will also be able to join and enrich the testbed, supporting greater cross-industry alignment and potential collaboration opportunities.

Accelerating scalable digital twin adoption

The COMPOSE testbed addresses the growing need for scalable, interoperable and rapidly reconfigurable digital twin solutions that reduce integration effort and accelerate time-to-value.

Key benefits include:
- Faster deployment of digital twins using reusable architectural components.
- Reduced integration complexity through a vendor-agnostic, composable architecture.
- Cross-industry applicability, enabling organizations to test use cases that advance data-driven and efficient operations while providing a clear pathway to scalable adoption.
- Lower experimentation risk and cost by validating technologies in a microfactory environment before full-scale implementation.
- Contribution to industry standards, providing insights to Digital Twin Consortium frameworks on OT/IT convergence and interoperability.

Working within the Digital Twin Consortium testbed program allows NTT DATA and its partners to validate COMPOSE under a trusted, neutral framework. The program provides access to globally recognized frameworks, best practices and expert guidance that strengthen the testbed's development.
Through Digital Twin Consortium collaboration agreements, members can connect their technologies to real microfactory data, evaluate how solutions perform together and jointly refine reference architectures and use cases.

This collaborative model helps accelerate innovation and enables new partnership models for market adoption, benefiting both participants and the broader digital twin ecosystem.

About NTT DATA

NTT DATA is a $30+ billion business and technology services leader, serving 75% of the Fortune Global 100. We are committed to accelerating client success and positively impacting society through responsible innovation. We are one of the world's leading AI and digital infrastructure providers, with unmatched capabilities in enterprise-scale AI, cloud, security, connectivity, data centers and application services. Our consulting and industry solutions help organizations and society move confidently and sustainably into the digital future. As a Global Top Employer, we have experts in more than 70 countries. We also offer clients access to a robust ecosystem of innovation centers as well as established and start-up partners. NTT DATA is part of NTT Group, which invests over $3 billion each year in R&D. Visit us at nttdata.com

About Digital Twin Consortium

The Digital Twin Consortium® (DTC) is Accelerating Digital Twin Innovation™. DTC advances digital twin adoption and market growth by working closely with members to foster development, raise awareness, and enhance interoperability of digital twin applications throughout the Digital Twin Lifecycle across industries. DTC is an EDM Association community. For more information, visit digitaltwinconsortium.org.

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