

Wipro Smart-twin

Accelerating digital twin led industry 4.0 transformation



What's Trending?

With advent of Industry 4.0, Industrial and engineering organizations are becoming increasingly digital and focusing towards enhancing customer experience across the value chain. Among the transformation initiatives, developing digital twin of assets and processes is gaining increasing prominence. Moving beyond just monitoring of individual assets, organizations today are looking at digital twins to replicate the complex interactions between their assets and the subsequent business processes that they enable. This enables organizations to predict outcomes at a higher accuracy and supports informed decision making.

Smart-twin is positioned to enable customers through Digital Transformation Journey of Enterprise & Knowledge Maturity

Wipro Smart-twin

Wipro Smart-twin is an Industry 4.0 Digital Transformation Platform, which leverages some core concepts of Digital Twin, to support Enterprise Maturity, and associated Knowledge Maturity in industry verticals like Manufacturing, Power Generation, Electric Utilities, Water Utilities, and Refineries & Petrochem. Smart-twin provides an ecosystem to harness the power from existing implementation and build on new age additions to support business transformation. It will enable customers through:

- Digitization of operations
- Redesign products & services to enable new business models
- Support closer end customer interactions through agility in the manufacturing process

Any Industry 4.0 journey requires an ecosystem of different players to deliver value. Therefore, we have put together a consortium as part of this program to support on the development and delivery of the platform. These partners include – Leading IoT Product Companies, Wipro as an SI, three niche domain/ technology start-ups and a consulting organization.

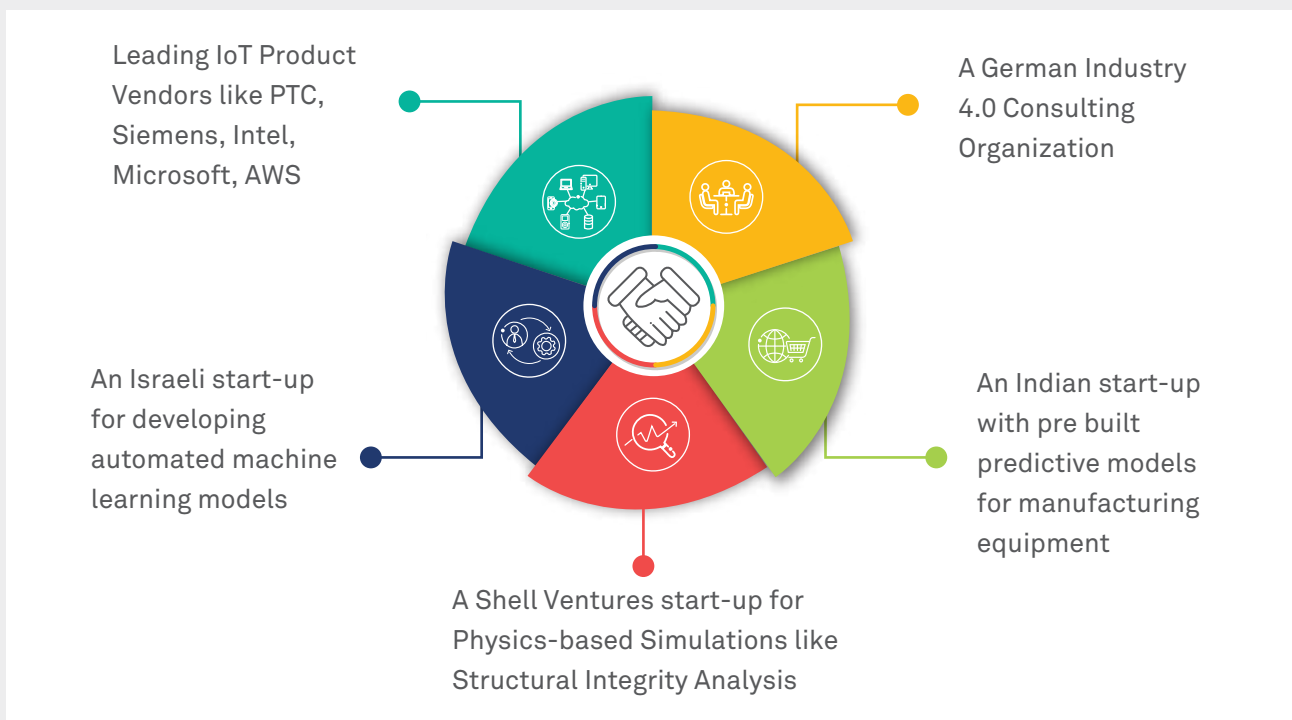


Figure 1: Smart-twin consortium

Key Features:

- Data Ingestion from a variety of sources
- Creating a Unified Asset Model & Asset Hierarchies
- Situational Awareness
- Industry Triage, Root-Cause-Analysis, & Case-Management
- Predictive Modelling
- Workflow Management
- Interaction Modelling between asset groups and hierarchies
- Alarm/ Event Management & Complex Event Management
- KPI Configuration & Calculation Engine
- Telephony & Coordination
- Access Controlled & Cognitive Dashboards
- Administration & Configuration-Control

Smart-twin value proposition:



Real-time monitoring & predictive maintenance of assets



Integrated Operations Ecosystem connecting internal and external stakeholders



Decision support system for real time decision making

How we engage?

The focus of Wipro Smart-twin is to deliver a productized, yet customized solution in a co-innovation driven engagement model. We partner along the entire journey right from identifying the business case, its implementation to support, till the desired outcome gets realized.

Typically, application development takes 3-6 months with a payback period of 12-18 months, and RoI of at-least 2.5X to 3X over a 3 year period.

What differentiates us?



Best-of-Breed software/ hardware components



Access to very niche industry specific startups and IPs



Seamless customization for any industry/customer



Partnering across the entire journey: Consulting + Platform Pilot Implementation + System Integration + Solution Scaling + Run & Support



Outcome based business models

For further queries please contact: ask.smarttwin@wipro.com

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