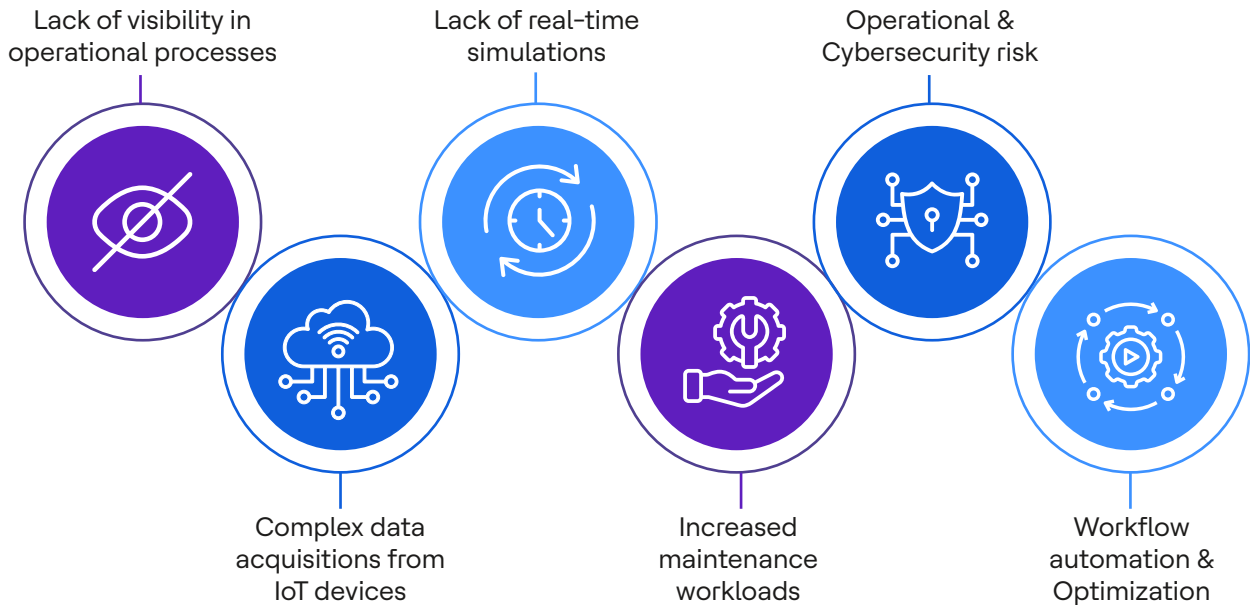# HCLTech

Supercharging Enterprise Digital Twin adoption

Powering connected phygital experiences

Digital Twins are connected virtual replicas of your physical products, people and processes. By leveraging Digital Twins across the product/process lifecycle and integrating it with data from sensors and IoT devices, enterprises can gain real-time insights, optimize operations, improve decision-making and accelerate innovation.

Digital Twins are already delivering value to industries such as Manufacturing, Aerospace, Medical, Automotive, Energy & Utilities, and more. According to a survey by McKinsey, investment in Digital Twins is expected to reach $48 billion by 2026 with a CAGR of 58%.

Factors driving Digital Twin adoption

Lack of visibility in operational processes

Lack of real-time simulations

Operational & Cybersecurity risk

Complex data acquisitions from IoT devices

Increased maintenance workloads

Workflow automation & Optimization

To harness the full potential of digital twins for your enterprise, you need a partner who has the right set of expertise, skills, technologies and infrastructure to build, deploy, and operate value-driving Digital Twins. HCLTech is that partner.

Our best-of-breed Digital Twin service offerings enable you to improve your process efficiencies, reduce downtime, enhance productivity and drive sustainable growth.

Digital Twins have the potential to deliver consequential business impact

25%-30%
Increased asset performance

20%-30%
Reduced maintenance cost

10%-30%
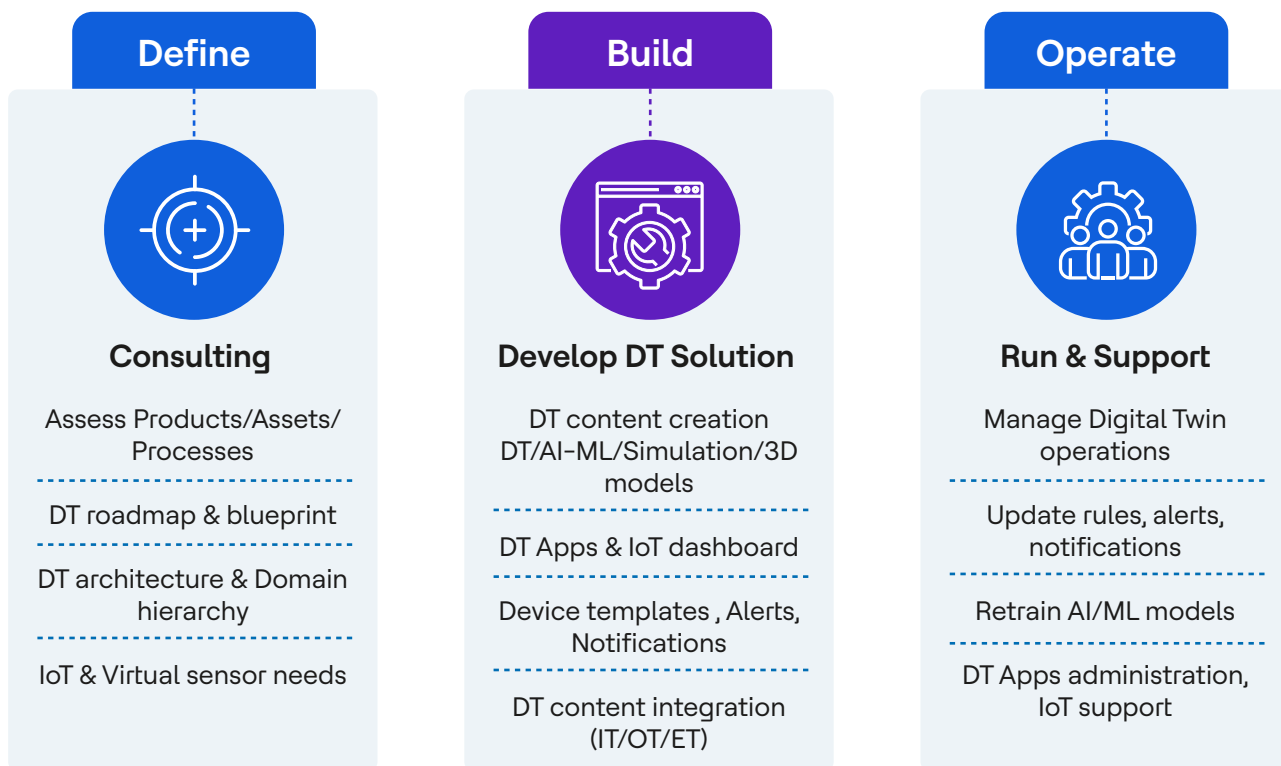Reduced time-to-market

10%-30%
Improved planning efficiency

HCLTech's Digital Twin Services: Harnessing the power of Digital Twins for enterprises across verticals

Our portfolio of end-to end Digital Twin offerings along with our in-depth domain knowledge and our strategic investments in labs and technology CoEs, makes us a one-stop partner for all industry requirements and uses-cases across the Digital Twin lifecycle.

Define

Consulting

Assess Products/Assets/Processes

DT roadmap & blueprint

DT architecture & Domain hierarchy

IoT & Virtual sensor needs

Build

Develop DT Solution

DT content creation DT/AI-ML/Simulation/3D models

DT Apps & IoT dashboard

Device templates , Alerts, Notifications

DT content integration (IT/OT/ET)

Operate

Run & Support

Manage Digital Twin operations

Update rules, alerts, notifications

Retrain AI/ML models

DT Apps administration, IoT support

Digital Twin Solution Accelerators

AssetTwin360
End-to-end asset management solution to improve asset performance and reduce downtime via predictive maintenance

ECCO - Digital Thread Framework
A framework for visibility and traceability of context-specific information across the enterprise

Graviton
A connected data platform based on data lake house for automating the end-to-end Data Engineering lifecycle

EVTwin
A monitoring and diagnostics solution to enable predictive maintenance and battery life prediction for Electric Vehicles (EV)

XTERN SDP
An XR lifecycle management platform for accelerated development and implementation of custom XR solutions and use-cases at enterprise-scale

Success Stories

Remote predictive maintenance for a leading windmill manufacturer

- Enabled remote tracking of vital parameters and analysis of data collected from the windmills and controllers

- Reduced maintenance cost & increased productivity due to visibility of operations and maintenance requirements

Digital Twin platform for a leading aerospace OEM

- Improved efficiency by capturing real-time plant performance information

- Enabled real-time visibility into shop floor through simulation, predictions and connected production

Analyst Recognitions

HCLTech is positioned as a leader in

Everest Group's Digital Twin Services PEAK Matrix® Assessment 2022

ISG Provider Lens™ Digital Engineering Services – Connected And Intelligent Operations – Process Industries, U.S. 2022

Avasant AR/VR/XR Services 2022 RadarView™

Want to know how we can unlock the potential of Digital Twin for your enterprise?
Contact Us: digitalengg@hcl.com

hcltech.com

HCLTech is a global technology company, home to 225,900+ people across 60 countries, delivering industry-leading capabilities centered around digital, engineering and cloud, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, Technology and Services, Telecom and Media, Retail and CPG, and Public Services. Consolidated revenues as of 12 months ending March 2023 totaled $12.6 billion. To learn how we can supercharge progress for you, visit hcltech.com