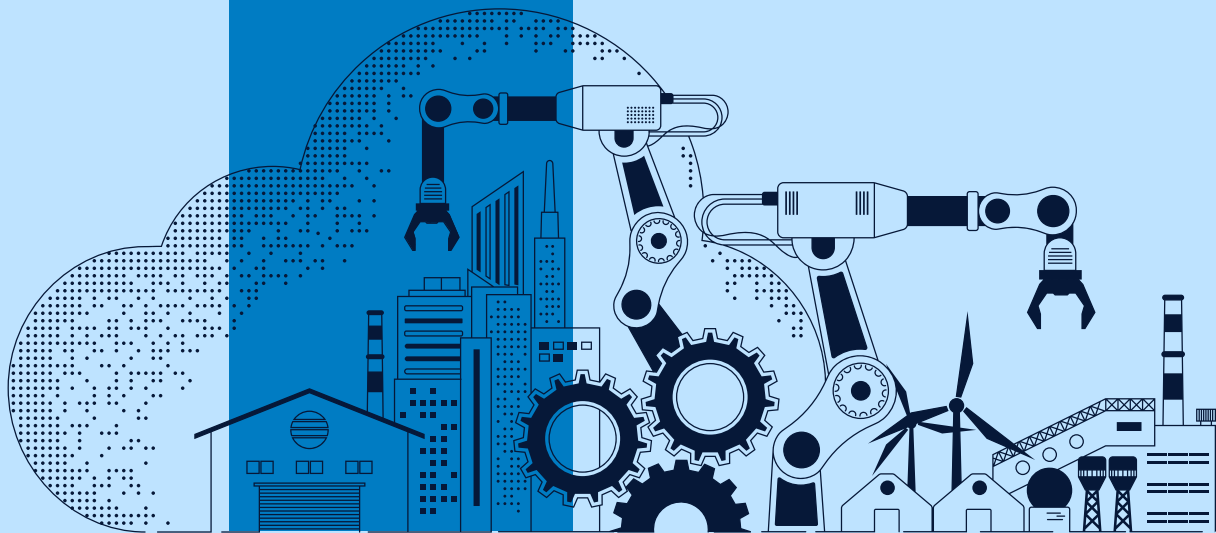


INFOSYS CONNECTED OPERATIONS ON CLOUD

Harmonized Cloud-based
Landscape for Manufacturers
to Bring Stability, Reliability,
and Visibility into their
Operations



Cloud is Empowering Manufacturing Enterprises to Reimagine a Connected Future

Manufacturers have traditionally leveraged the cloud as the stepping stone to enhanced agility, scalability, and cost effectiveness. Now, it is time to scale this transformation further, by optimizing the operations through modern solutions that harness the potential of cloud to unlock stability, reliability, and visibility. It is also about energizing the core and innovating at scale, thereby driving business resilience.





The Pathway to a Smart Factory

Within the manufacturing ecosystem, connectivity is not a new concept. Amidst an increasing convergence of the digital and physical realms through Industry 4.0 adoption, however, connected operations have become one of the most crucial differentiators. The COVID-19 pandemic has accelerated the need for digital production operations across the supply chain even further.

To transform traditional shop floors into a future-ready smart factory, manufacturers require the inherent materials, machines, and processes to collate and analyze real-time data and support data-driven decision-making. More and more manufacturing enterprises are leveraging connected operations solutions to:

- Navigate remote operations and monitoring at ease
- Facilitate connected processes with higher degrees of automation
- Optimize asset and resource utilization
- Predict the possible impact on operations proactively
- Help respond to changes in real-time

Industry Challenges

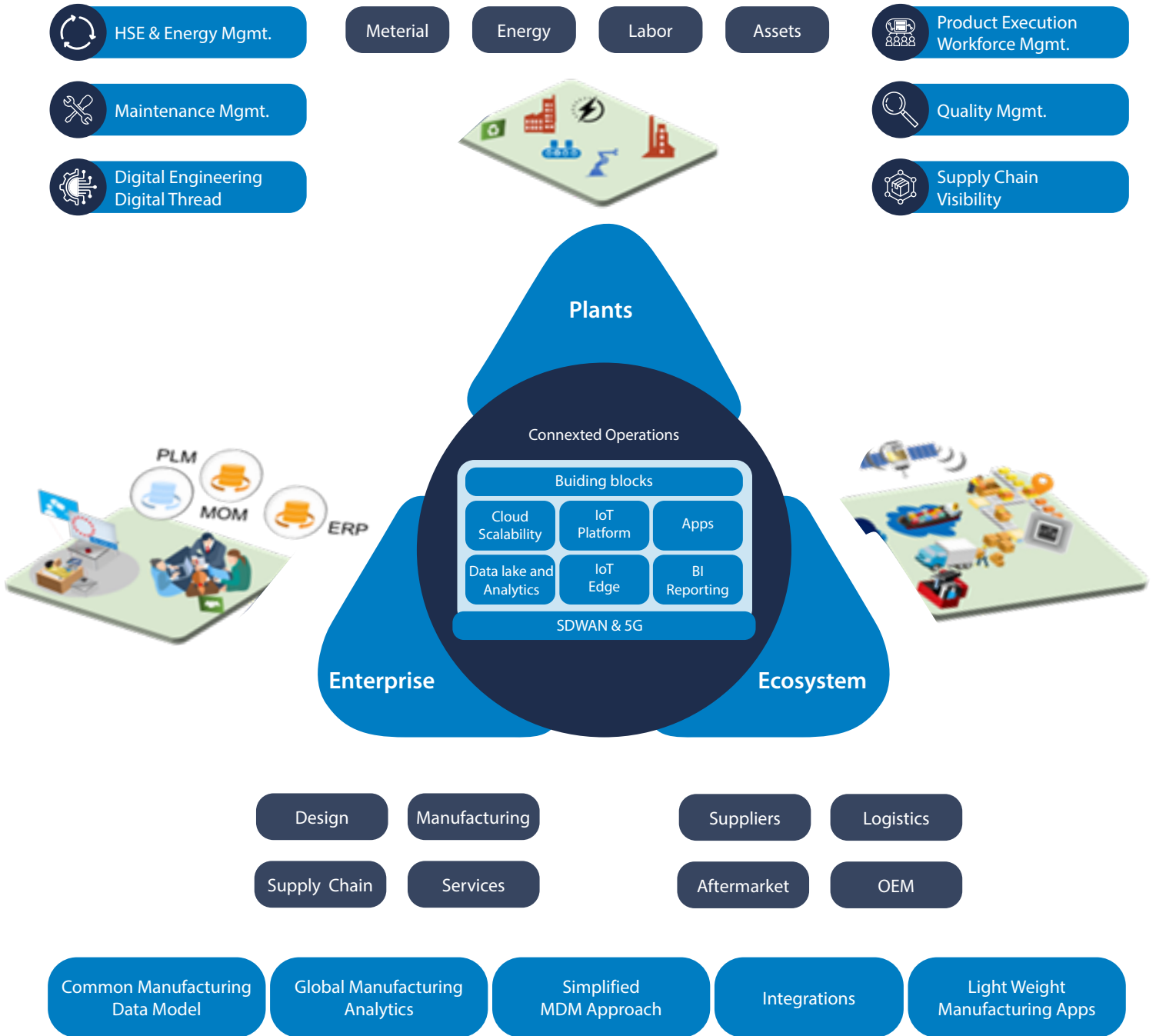
On their journeys towards building Factories of the Future, organizations face several barriers that could lead not only to high operating expenses but also disruptions in operations. The most significant challenges include:

Disconnected Systems	Uncertainty in Demand	High Cost of Quality	High Operating Expenses
<ul style="list-style-type: none">• Siloed data leads to limited visibility into operations and lack of process harmonization	<ul style="list-style-type: none">• Demand fluctuations due to the pandemic and evolving market dynamics result in uncertainties	<ul style="list-style-type: none">• Poor traceability and compliance• Failure to meet delivery schedules• Customer returns	<ul style="list-style-type: none">• Manufacturing operations and support personnel spend too much time to locate, extract and combine data from disparate systems

Infosys Connected Operations on Cloud

Infosys Connected Operations on Cloud facilitates seamless integration of Engineering Technology (ET), Operational Technology (OT), and Informational Technology (IT). These applications enable process harmonization at a factory and/or across an enterprise, thereby facilitating scalable, real-time, data-driven transparent operations with predictive and self-healing processes.





Infosys Connected Operations on Cloud is a suite of cloud-agnostic modular applications that act as the connective tissue between machines, processes, systems, and people – to achieve operational excellence.



Infosys Connected Operations on Cloud is a set of pre-configured and ready-to-deploy micro applications that are provided 'as-a-service'. The solution tenets are built on the principles of Infosys Live Enterprise Framework, which introduces strategic thinking for sentience in the enterprise. In addition, we have also taken into account the heterogeneity of technology stack, across organizations.

Enhancing Operations to Build Efficiencies and Make Businesses Profitable



The Infosys Advantage



Faster Time to Market

Reduce NPI by 15%



Optimal Resource Utilization

Increase OEE and improve asset utilization by 10-15%



Better Quality Assurance

Reduce scrap by 5-10%



Agile and Flexible Operations

Achieve 20% higher on-time delivery and reduce inventory carrying cost by 10%



Growth and Co-innovation

Innovate to reduce operator time by 10%

Connected Operations on Cloud Canvas App Store



Realtime Plant Operations



Quality Control



Energy Analytics



Monitor Machine Health



Machine Predictive Maintenance



Digital Twin



Process Optimization



Smart Fault Tree



Production Scheduling



Predict Defects






















Energy Consumption Forecast



 Application Currently Developed  Currently WIP

All applications to be ready by March 2022

App Functions

 <p>Process Monitoring</p>	 <p>Productivity</p>	 <p>Prediction</p>	 <p>Optimization</p>
 <p>Machine Integration</p> <p>Machine status morning information</p>	 <p>KPI Monitoring</p> <p>KPI monitoring with drill down dashboard</p>	 <p>Dynamic Scheduling</p> <p>Dynamic production planning & optimization</p>	 <p>Process Correction</p> <p>Real time process & operation analytics</p>
 <p>Energy Consumption Data</p> <p>Machine energy consumption data</p>	 <p>Operator Effectiveness</p> <p>Work introduction and guided ops Remove assist Worker safety</p>	 <p>Energy Forecast</p> <p>Dynamic production planning & optimization</p>	 <p>Process Optimization</p> <p>Closed loop process control</p>
 <p>Asset Discovery</p> <p>Template based asset identification & data setup</p>	 <p>Condition Monitoring</p> <p>Real time insight into machine condition & process parameters</p>	 <p>Predictive Maintenance</p> <p>Machine/asset drill down on reasons with root cause & resolution</p>	 <p>Digital Twin</p> <p>Machine/process digital twin for simulation and remote monitoring</p>
 <p>Quality Monitoring</p> <p>Real time insight into quality defects</p>	 <p>Quality Analytics</p> <p>Persona specific representation of defects</p>	 <p>Defects Forecasting</p> <p>Forecasting of defects</p>	

For more information, contact askus@infosys.com

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Navigate your next

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