Command Center.NXt

BROCHURE

Connected World
Connected Experiences

Summary

Tech Mahindra's Command Center.NXT connects various IT-OT systems across manufacturing and the supply chain. These include enterprise resource planning (ERP), customer relationship management (CRM), supplier relationship management (SRM), warehouse management system (WMS), manufacturing execution system (MES), industrial Internet of Things (IIoT), supervisory control and data acquisition (SCADA), programmable logic controller (PLC). Our command center connects hundreds of manufacturing plants and their supply chain entities. This enables visibility of business-critical KPIs and leverages analytics to provide holistic insights and deliver tangible business value by improving critical KPIs by 10-15%.

Introduction

Between 27-40% of the enterprise data is used for analytics (as per Forrester) and we observe that less than 5% of the shop floor data is acted upon. It is crucial to gain end-to-end visibility to improve productivity by up to 10%.*

Tech Mahindra's Command Center.NXT provides an integrated view across the manufacturing plants, their supply chains, and their support functions. Stakeholders have the provision to analyze KPIs across divisions, regions, plants, areas, lines, stations, and supply chain entities. Users can identify leading and trailing entities for critical KPIs. Intelligent analytics function determines gap-to-greatness across KPIs, helps the user in benchmarking, and identifies vital enablers to achieve their targets. Our artificial intelligence (AI) based intelligent monitoring system triggers alerts for deviations in near-real-time. Trend analysis enables users to track the abnormalities and helps users to take corrective action to prevent impending failures.
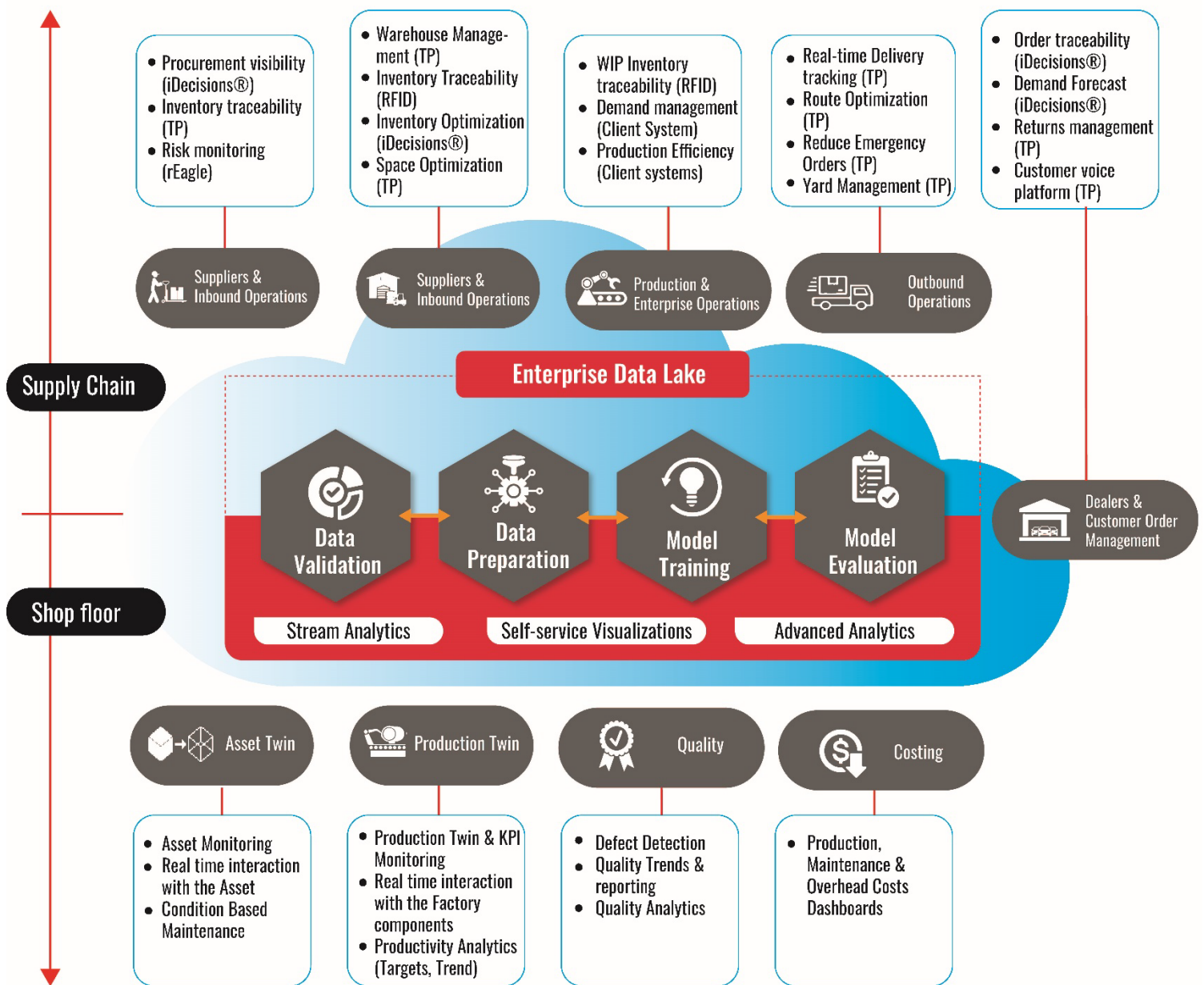
Our Solution

By utilizing Command Center.NXT:

- Connect with the machines and systems across the plants and supply chain entities breaking across silos
- Collect all the available data, filters, and store them in a common data warehouse or data lake with proper structures and schema
- Consume the data by creating highly interactive, self-service visualizations and reports
- Cognitive alert monitoring system, Cognitive trend analysis, and Cognitive benchmarking provide actionable insights and deliver tangible business value

  As a result, gain from the seamless end-to-end integrated experience and intelligent support for decision-making.

Source: Forrester

Supply Chain

- Procurement visibility (iDecisions®)
- Inventory traceability (TP)
- Risk monitoring (rEagle)

Suppliers & Inbound Operations

- Warehouse Management (TP)
- Inventory Traceability (RFID)
- Inventory Optimization (iDecisions®)
- Space Optimization (TP)

Suppliers & Inbound Operations

- WIP Inventory traceability (RFID)
- Demand management (Client System)
- Production Efficiency (Client systems)

Production & Enterprise Operations

- Real-time Delivery tracking (TP)
- Route Optimization (TP)
- Reduce Emergency Orders (TP)
- Yard Management (TP)

Outbound Operations

- Order traceability (iDecisions®)
- Demand Forecast (iDecisions®)
- Returns management (TP)
- Customer voice platform (TP)

Enterprise Data Lake

Data Validation → Data Preparation → Model Training → Model Evaluation

Stream Analytics | Self-service Visualizations | Advanced Analytics

Dealers & Customer Order Management

Shop floor

Asset Twin
- Asset Monitoring
- Real time interaction with the Asset
- Condition Based Maintenance

Production Twin
- Production Twin & KPI Monitoring
- Real time interaction with the Factory components
- Productivity Analytics (Targets, Trend)

Quality
- Defect Detection
- Quality Trends & reporting
- Quality Analytics

Costing
- Production, Maintenance & Overhead Costs Dashboards

Benefits

- Line efficiency improvement by 5-8%
- Downtime reduction by 5-8%
- Mean Time To Respond reduction by 50%
- High volume and variety of data can be explored faster in no time, saving a lot of effort and time. And this enables faster Decision making with the help of data visualization tools

NXT.NOW™ Advantage

- Cloud-hosted DevOps based implementation framework
- Rol-based use case identification for Command Center.NXT
- Self-service visualization and analytics
- Industry-specific dashboards
- Strong IT-OT integration capabilities

Tech Mahindra

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