

# MANUFACTURING

## TRENDS IN MANUFACTURING

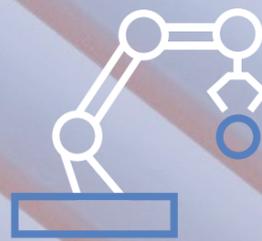
### HYPERCUSTOMIZATION

The ability to heavily personalize a product to an individual's requirements while employing highly automated production techniques and networked machines is one of the main benefits of the Industry 4.0 trend.



### LOCALIZED MANUFACTURING

By locating manufacturing assets and critical suppliers closer to where the customers are, manufacturers gain greater agility, reduce their environmental footprint and are less vulnerable to geopolitical actions.



### PRODUCT AS A SERVICE

IoT technologies make it possible to track how products are being used in the field and so develop different ownership and revenue models, such as charging for the services and data that surround a product, so-called servitization.



### SERVITIZATION New Name, Old History

The "Power-by-the-hour" engine servicing model, which charge airlines a fixed cost per flying hour, was introduced in 1962 on the Hawker Siddeley 125 business jet.



## KEY AREAS FOR INVESTMENT

#### 01 UPGRADING LEGACY TECHNOLOGIES

Manufacturers must plan for the stage-by-stage, non-disruptive replacement of obsolete technology and equipment.

#### 02 CONNECTING OPERATIONAL SILOES

Industry 4.0 requires integration at a very deep level. Siloes prevent this vision from becoming reality and so they must be removed.

#### 03 CLOSING THE IT-OT DIVIDE

IT and OT are becoming increasingly intertwined as business systems draw their data from manufacturing equipment and vice versa.

#### 04 INTEGRATING CONTROL SYSTEMS

Smart, largely automated management systems will be needed to manage fleets of production assets from central control locations.

#### 05 ENABLING HIGHER LEVELS OF AUTOMATION

Automation needs to cross production siloes, aided by the "single pane of glass" approach to system visibility.

#### 06 OPTIMIZING SUPPLY CHAINS

Manufacturers may need to reshore parts of their supply chain to increase responsiveness or diversify their supplier base to reduce supply chain risk.

## BENEFITS OF SAP S/4HANA FOR MANUFACTURERS

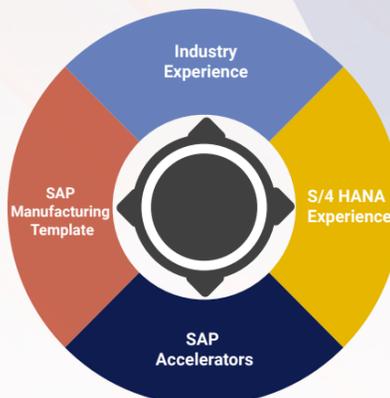
SAP S/4HANA digitalizes mission-critical processes using a single source of real-time information that interconnects all aspects of the value chain, including core manufacturing operations, workforce management, assets and the IoT, supplier collaboration and business networks and more.



## WHY CHOOSE NTT DATA FOR YOUR SAP MANUFACTURING PROJECT

- Complete SAP S/4HANA system optimized for manufacturers with 113 Best Practices including Finance, Sourcing & Procurement, Manufacturing, Asset Management, Sales, Supply Chain.
- Includes Accelerated Customer Returns, Sales Rebate Processing, Advanced Available-to-Promise, Advanced Credit Management, Lot fabrication and Predictive MRP (pMRP).

- SAP Digitized Maintenance.
- Siemens Teamcenter to S/4HANA Integration Framework.
- Automated payments with SAP intelligent RPA and SAP Fiori.



- NTT DATA has been serving manufacturing for more than 45 years.
- Skilled in integrating SAP solutions with emerging technologies such as predictive analytics, AI, augmented/virtual reality and digital twins.

- 30-year partnership with SAP.
- Over 5,000 active SAP clients.
- Leading SAP partner with over 300 S/4HANA projects.
- S/4HANA Center of Excellence.
- Resource coverage in over 58 countries.

## NTT DATA SAP ACCELERATORS

NTT DATA has developed a range of accelerators to reduce the time to market and cost of implementing a SAP Manufacturing solution.

### DIGITIZE MAINTENANCE

This accelerator helps manufacturers implement a predictive maintenance strategy using machine learning to predict when faults in production assets will occur based on the real-time analysis of sensor data, so avoiding unplanned downtime and optimizing maintenance operations.

### SIEMENS TEAMCENTER S/4HANA INTEGRATION FRAMEWORK

Siemens Teamcenter is a core solution for product lifecycle collaboration and product data management in the SAP software ecosystem for manufacturers. This Integration framework allows users to quickly integrate Teamcenter into their SAP software and it can run on any hyperscaler platform.

### ANALYZE AND AUTOMATE PAYMENTS USING FIORI AND RPA

Large manufacturers that do business globally face particular challenges when it comes to analyzing and automating payments efficiently. This accelerator combines SAP Fiori and Remote Process Automation to minimize the need for manual processing of payments and improve accounting accuracy.