



ROBOTIC PROCESS AUTOMATION





MCKINSEY GLOBAL INSTITUTE ESTIMATIONS

69% of data processing, and
64% of data-collection activities could
feasibly be automated in any
Dairy based Organisation



RPA IS..

Robotic process automation (RPA) is bots to automate repetitive and rule-based tasks.

RPA is a valuable tool for the manufacturing industry, which is facing several challenges, including streamlining production, quality control, supply chain, and data accuracy.

In this presentation, we present some of the most common problems in production industry and potential solutions, along with how RPA can help.

PRODUCTION INDUSTRY

MANUAL DATA ENTRY

CHALLENGES

Manual data entry leads to errors, delays, and increased labor costs.

SOLUTION

RPA can automate data entry processes by extracting data from various sources and accurately inputting it into relevant systems, reducing errors and saving time.

PRODUCTION INDUSTRY

INVENTORY MANAGEMENT

CHALLENGES

Inefficient inventory management leads to stockouts, excess inventory, and increased holding costs

SOLUTION

- RPA can automate inventory tracking, including stock monitoring, reorder notifications, and real-time updates.

This improves supply chain efficiency, prevents stockouts, and optimizes inventory levels.

PRODUCTION INDUSTRY

ORDER PROCESSING

CHALLENGES

Manual order processing is time-consuming, error-prone, and hampers order accuracy.

SOLUTION

RPA can streamline the order processing workflow by automating order capture, validation, and entry into systems.

It generates order confirmations, invoices, and shipping labels, improving order accuracy and efficiency.

PRODUCTION INDUSTRY

PRODUCTION PLANNING & SCHEDULING

CHALLENGES

Inefficient production planning and scheduling result in suboptimal resource allocation, delays, and increased costs.

SOLUTION

RPA can analyze production data, demand forecasts, and resource availability to automatically generate production schedules.

It optimizes resource allocation, adjusts plans in real time, and improves production efficiency.

PRODUCTION INDUSTRY

QUALITY CONTROL & INSPECTION

CHALLENGES

Manual quality control processes are time-consuming, subjective, and prone to errors.

SOLUTION

RPA can automate quality control processes by monitoring production data, performing data analysis, and identifying deviations or defects.

It triggers corrective actions, generates quality reports, and ensures compliance with standards.

PRODUCTION INDUSTRY

REGULATORY COMPLIANCE

CHALLENGES

Ensuring compliance with industry regulations and standards is complex, time-consuming, and error-prone.

SOLUTION

RPA automates compliance-related tasks by validating data, generating regulatory reports, and ensuring adherence to industry regulations and standards.

It reduces errors, maintains compliance, and mitigates risks.

PRODUCTION INDUSTRY

EQUIPMENT MAINTENANCE & MONITORING

CHALLENGES

Inadequate equipment maintenance and monitoring lead to increased downtime, higher maintenance costs, and decreased productivity.

SOLUTION

RPA monitors equipment performance, collects sensor data, and triggers maintenance alerts based on predefined conditions.

It schedules preventive maintenance, tracks maintenance history, and optimizes equipment uptime.

PRODUCTION INDUSTRY

SUPPLIER MANAGEMENT

CHALLENGES

Manual supplier management processes result in delays, errors, and poor supplier performance tracking.

SOLUTION

RPA automates supplier onboarding, contract management, and performance tracking.

It validates supplier data, manages purchase orders, and facilitates seamless communication between manufacturers and suppliers.

PRODUCTION INDUSTRY

COST CONTROL & FINANCIAL MANAGEMENT

CHALLENGES

Manual financial processes, such as invoice processing and expense management, are time-consuming and error-prone.

SOLUTION

RPA automates financial processes, such as invoice processing, expense management, and budgeting.

It reconciles financial data, generates reports, and provides accurate cost analysis to support decision-making.

PRODUCTION INDUSTRY

CUSTOMER SUPPORT & SERVICE

CHALLENGES

Manual customer support processes lead to delays, inconsistent responses, and reduced customer satisfaction.

SOLUTION

RPA automates customer support processes, such as order tracking, returns management, and warranty handling.

It provides personalized responses, accesses customer data, and resolves inquiries or issues efficiently, improving customer satisfaction.

PROCESS WHERE RPA CAN ENHANCE
IN PRODUCTION INDUSTRY

Tracking and management of inventory levels

Automate the processing of customer orders

Automate order verification and payment processing.

Automate inspection and testing of products.

Production schedules based on demand and resource availability.

Automate the creation and maintenance of BOMs for products.

Automate the movement and handling of materials

Automate the creation, assignment, and tracking of work orders

Automate the scheduling and coordination of machine maintenance activities.




DATACEPTION

Automate the calibration of production equipment and tools

Automate data entry tasks

Automate the generation of production reports

Automate the labeling of products with barcodes

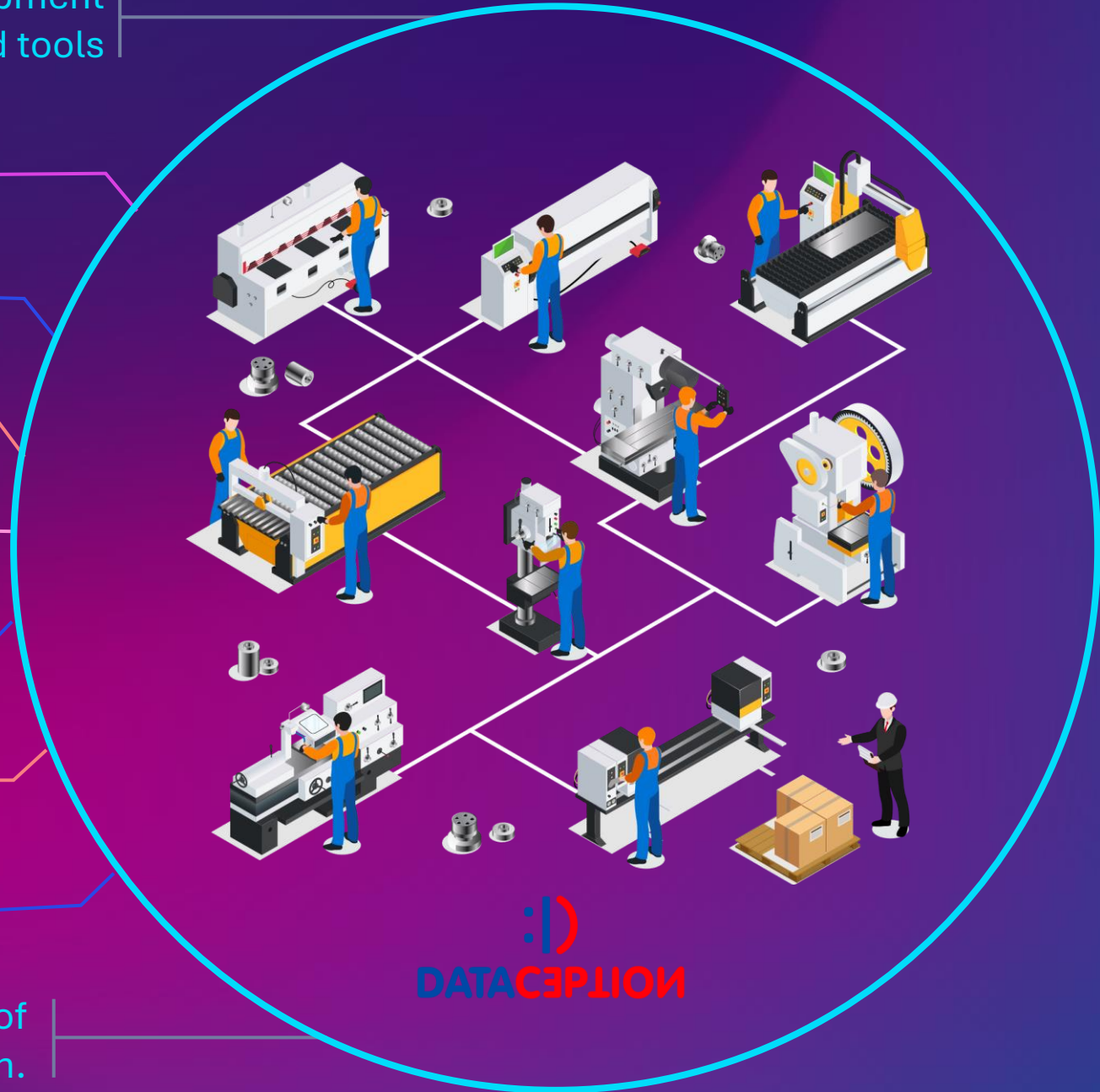
Automate the packaging and palletizing of products for shipment

Automate the generation of shipping labels and tracking shipments,

Automate the processing of product returns and warranty claims

Automated scheduling of production runs

Automate the requisition and procurement of materials needed for production.



These are just some examples of how RPA can enhance processes in the production industry. The specific application of RPA would depend on the unique requirements and challenges of each organization.



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