

Production scheduling and capacity planning

This workflow automatically creates optimized production schedules based on demand forecasts and real-time capacity constraints, ensuring efficient resource utilization while meeting food safety and quality requirements.

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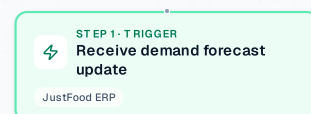


WORKFLOW TRIGGER

New demand forecast is generated or updated in the ERP system for the upcoming production period.

Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Receive demand forecast update

The workflow is initiated when JustFood ERP generates or updates demand forecasts for finished food products. This includes sales orders,

2

 ACTION

Assess current production capacity

Query Wonderware MES to retrieve real-time equipment availability, maintenance schedules, and current production line utilization rates. Factor in planned downtime and crew scheduling constraints.

Wonderware MES

3

 ACTION

Validate ingredient availability

Check current inventory levels and incoming deliveries in JustFood ERP to ensure sufficient raw materials and packaging supplies are available for proposed production runs.

JustFood ERP

4

 DECISION

Evaluate capacity vs demand gap

Compare required production capacity against available resources to determine if demand can be met within normal operating parameters. Branch workflow based on capacity adequacy.

SAP Food & Beverage

5

 ACTION

Optimize production schedule

AI Business OS

Generate optimized production schedule using SAP Food & Beverage's advanced planning algorithms, considering changeover times, batch sizes, shelf life requirements, and food safety protocols.

SAP Food & Beverage

Wonderware MES

6

 ACTION

Validate regulatory compliance

Cross-reference the proposed schedule against ComplianceQuest to ensure all production runs meet HACCP requirements, allergen controls, and batch tracking regulations.

ComplianceQuest

7

 OUTPUT

Distribute finalized production plan

Send approved production schedule to Wonderware MES for execution and update JustFood ERP with revised inventory projections and delivery commitments.

Wonderware MES

JustFood ERP



Outputs

- Optimized production schedule with resource assignments

AI Business OS

- Updated inventory projections and reorder points
- Compliance-verified batch production sequences



Key Metrics

- Production capacity utilization percentage
- Schedule adherence rate
- Ingredient waste reduction percentage



Tools & Integrations

- JustFood ERP
- Wonderware MES
- SAP Food & Beverage
- ComplianceQuest

AI Business OS

Actionable AI implementation strategies for business leaders ready to transform their operations.

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