

# Equipment maintenance and predictive analytics

This workflow automatically monitors brewery equipment health through IoT sensors and predictive analytics, scheduling maintenance before failures occur to minimize downtime and production losses.

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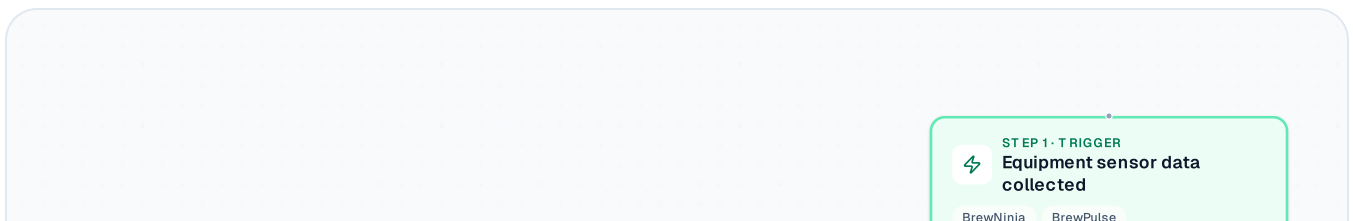
## WORKFLOW TRIGGER



IoT sensors detect equipment parameter anomalies or scheduled health check interval reaches threshold

## Visual Flow

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





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## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

### Equipment sensor data collected

IoT sensors on fermentation tanks, pumps, and cooling systems transmit real-time performance data including temperature, pressure, vibration, and

flow rates. Data is automatically ingested into the brewery's monitoring system.

BrewNinja

BrewPulse

2

 ACTION

## Analyze equipment performance patterns

Machine learning algorithms process historical and current sensor data to identify trends, anomalies, and early warning signs of potential equipment failures. Performance baselines are compared against current readings.

BrewPulse

Ekos Brewmaster

3

 DECISION

## Assess maintenance urgency level

The system evaluates whether detected anomalies require immediate attention, scheduled maintenance, or continued monitoring. Risk scoring determines the appropriate response pathway.

BrewPulse

4

 ACTION

## Generate maintenance work orders

Automated work orders are created with specific maintenance tasks, required parts, and priority levels. Integration with inventory systems checks parts availability and procurement needs.

Ekos Brewmaster

BrewPlanner

5

 ACTION

## AI Business OS

### Schedule maintenance windows

The system identifies optimal maintenance timing based on production schedules, batch cycles, and equipment criticality. Maintenance is scheduled to minimize disruption to brewing operations.

BrewPlanner

Ekos Brewmaster

6

🕒 OUTPUT

### Deploy maintenance notifications and reports

Automated alerts are sent to maintenance teams with detailed work instructions and parts lists. Management receives predictive maintenance reports showing cost savings and prevented downtime.

BrewNinja

BrewPlanner



### Outputs

- Automated maintenance work orders with parts lists
- Predictive failure alerts and risk assessments
- Equipment health dashboards and performance reports



### Key Metrics

## AI Business OS

- Equipment downtime reduction percentage
- Maintenance cost per barrel produced
- Mean time between failures (MTBF)



### Tools & Integrations

- BrewNinja
- BrewPulse
- Ekos Brewmaster
- BrewPlanner

Actionable AI implementation strategies for  
**AI Business OS** ready to transform their  
operations.

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