

Grape harvest scheduling and quality assessment

This workflow automates grape harvest scheduling by monitoring vineyard conditions and grape maturity data, then triggers quality assessment protocols to optimize harvest timing and ensure premium wine quality.

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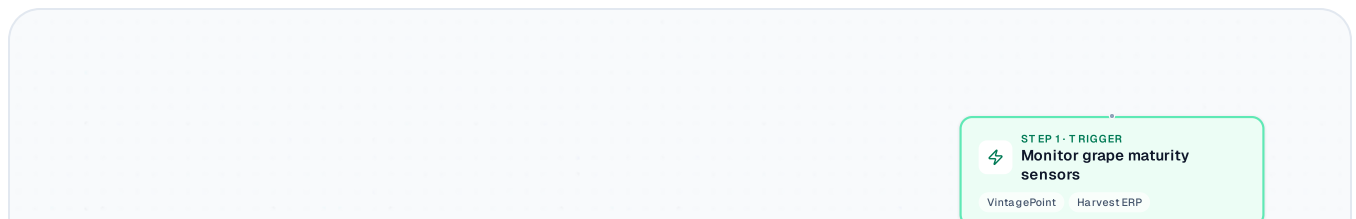
WORKFLOW TRIGGER

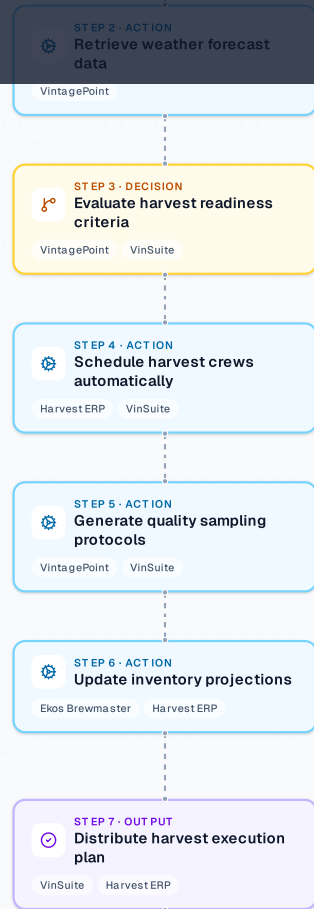


Vineyard sensor data indicates grape sugar levels (Brix) reach target thresholds for specific vineyard blocks

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

Monitor grape maturity sensors

IoT sensors detect optimal Brix levels, pH, and acidity measurements in vineyard blocks. Data automatically flows into the harvest management

2

 ACTION

Retrieve weather forecast data

System pulls 7-day weather forecasts to assess harvest window conditions. Rain, temperature, and humidity data influence harvest timing decisions.

VintagePoint

3

 DECISION

Evaluate harvest readiness criteria

AI analyzes grape maturity metrics against weather conditions and varietal-specific quality thresholds. Workflow branches based on readiness assessment.

VintagePoint

VinSuite

4

 ACTION

Schedule harvest crews automatically

System assigns available harvest teams to ready vineyard blocks and generates picking schedules. Crew capacity and equipment availability are optimized.

Harvest ERP

VinSuite

5

 ACTION

Generate quality sampling protocols

Automated creation of grape sampling plans for each scheduled block with specific testing requirements. Quality control checkpoints are established pre-harvest.

VintagePoint

VinSuite

6

 ACTION

Update inventory projections

System calculates expected grape tonnage and updates production forecasts in inventory management. Fermentation vessel allocation is automatically planned.

Ekos Brewmaster

Harvest ERP

7

 OUTPUT

Distribute harvest execution plan

Comprehensive harvest schedule with crew assignments, quality protocols, and logistics coordination is sent to operations teams and vineyard managers.

VinSuite

Harvest ERP



Outputs

- Optimized harvest schedule with crew assignments

- Quality sampling protocols for each vineyard block

AI Business OS



Key Metrics

- Harvest timing accuracy rate
- Grape quality scores at intake
- Labor efficiency per tonnage harvested



Tools & Integrations

- VintagePoint
- Harvest ERP
- VinSuite
- Ekos Brewmaster

AI Business OS

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