

# Supply chain and logistics coordination

This workflow automatically coordinates mining supply chain logistics by monitoring production forecasts, tracking material inventories, optimizing transportation routes, and generating procurement orders to ensure uninterrupted mining operations.

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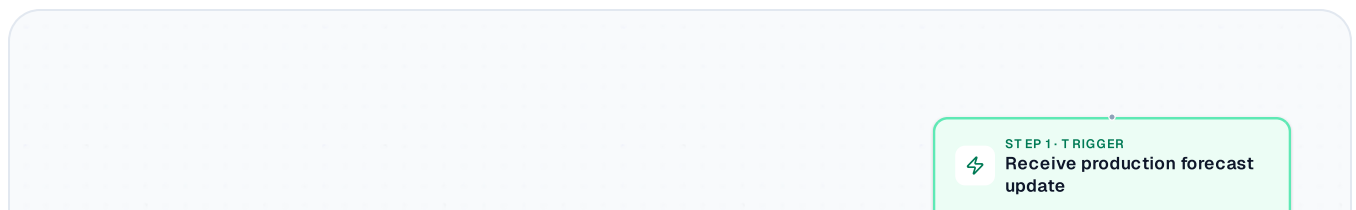


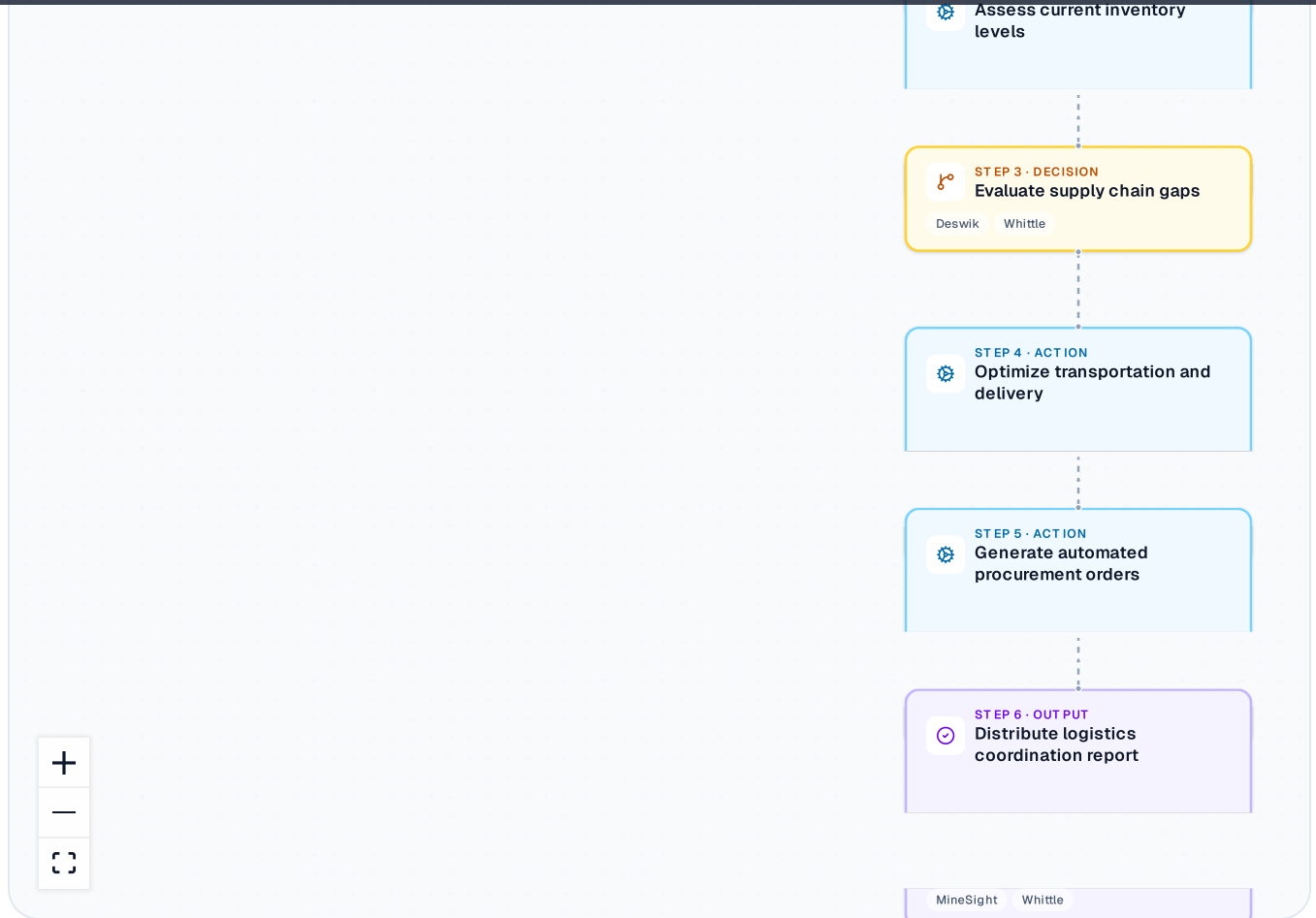
## WORKFLOW TRIGGER

Production planning system generates updated extraction forecast

## 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 production forecast update

Mining production planning system generates updated extraction forecasts and material requirements. The forecast includes ore tonnage, equipment

needs, and timeline projections.

## AI Business OS

Deswik

MineSight

2

 ACTION

### Assess current inventory levels

System queries current inventory databases to check available materials, spare parts, and consumables against production requirements. Real-time stock levels are retrieved from warehouse management systems.

XPAC

Vulcan

3

 DECISION

### Evaluate supply chain gaps

AI analyzes inventory data against production forecasts to identify material shortfalls, equipment maintenance needs, and potential supply disruptions. Determines if immediate action is required.

Deswik

Whittle

4

 ACTION

### Optimize transportation and delivery

System calculates optimal transportation routes, delivery schedules, and logistics coordination based on mine site locations and supplier capabilities. Considers equipment availability and site accessibility.

MineSight

XPAC

5

 ACTION

### Generate automated procurement orders

## AI Business OS

AI creates purchase orders for identified materials and services, selecting preferred suppliers based on cost, delivery time, and quality metrics. Orders are automatically submitted to approved vendors.

Deswik

Vulcan

6

🕒 OUTPUT

### Distribute logistics coordination report

System generates comprehensive supply chain status report with delivery schedules, inventory projections, and risk alerts. Report is distributed to operations managers and procurement teams.

MineSight

Whittle



### Outputs

- Automated procurement orders sent to suppliers
- Optimized transportation schedules
- Supply chain risk assessment report
- Updated inventory forecasts



### Key Metrics

## AI Business OS

- Supply chain fulfillment rate
- Average delivery lead time
- Inventory carrying costs
- Production downtime due to material shortages



### Tools & Integrations

- Deswik
- MineSight
- XPAC
- Vulcan
- Whittle

## AI Business OS

### AI Business OS

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