

# Waste sorting and classification

This workflow automates the identification, classification, and routing of incoming waste materials using AI-powered sensors and computer vision to optimize sorting accuracy and contamination reduction.

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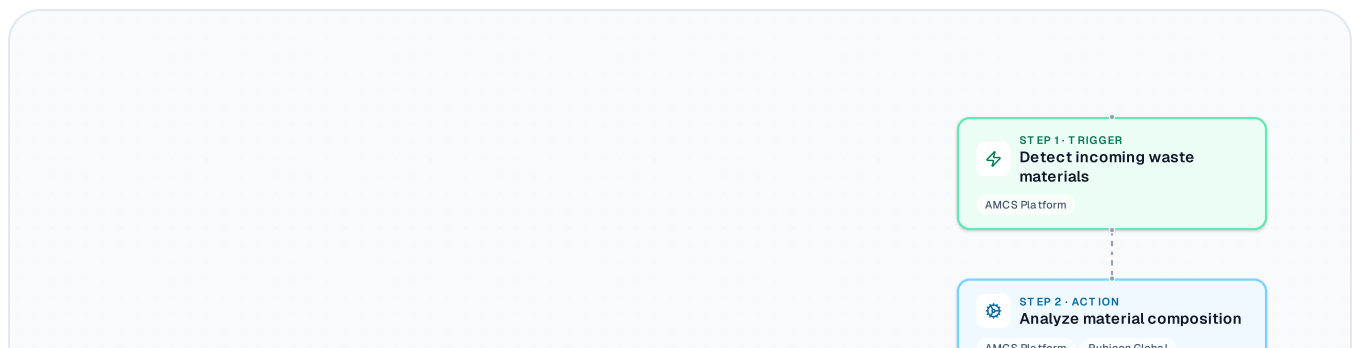


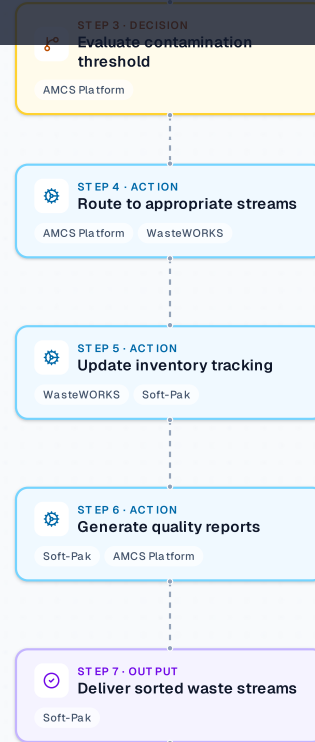
## WORKFLOW TRIGGER

Waste materials arrive at sorting facility conveyor belt

## 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

## Detect incoming waste materials

AI-powered sensors and cameras capture images and weight data of waste items entering the sorting facility. Real-time data is transmitted to the classification system for analysis.

AMCS Platform

2

 ACTION

## Analyze material composition

Computer vision algorithms identify material types, contamination levels, and recyclability status. Machine learning models classify items into predefined waste categories.

AMCS Platform

Rubicon Global

3

 DECISION

## Evaluate contamination threshold

System determines if contamination levels exceed acceptable limits for recycling streams. Materials above threshold are flagged for alternative processing routes.

AMCS Platform

4

 ACTION

## Route to appropriate streams

Automated sorting equipment directs materials to designated collection bins based on classification results. Contaminated items are routed to residual waste processing.

5

 ACTION

### Update inventory tracking

System records sorted material quantities, quality grades, and contamination rates in the waste management database. Real-time inventory levels are updated across all streams.

WasteWORKS

Soft-Pak

6

 ACTION

### Generate quality reports

Automated reporting system compiles sorting accuracy metrics, contamination analysis, and material recovery rates. Performance data is transmitted to facility management dashboard.

Soft-Pak

AMCS Platform

7

 OUT PUT

### Deliver sorted waste streams

Clean, categorized materials are prepared for downstream processing or sale to recycling markets. Quality certificates and batch records are generated for compliance tracking.

Soft-Pak



## Outputs

- Sorted recyclable material streams
- Contamination quality reports
- Material recovery rate analytics



## Key Metrics

- Sorting accuracy percentage
- Contamination rate by stream
- Material recovery rate



## Tools & Integrations

- AMCS Platform
- Rubicon Global
- WasteWORKS
- Soft-Pak

## AI Business OS

## AI Business OS

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