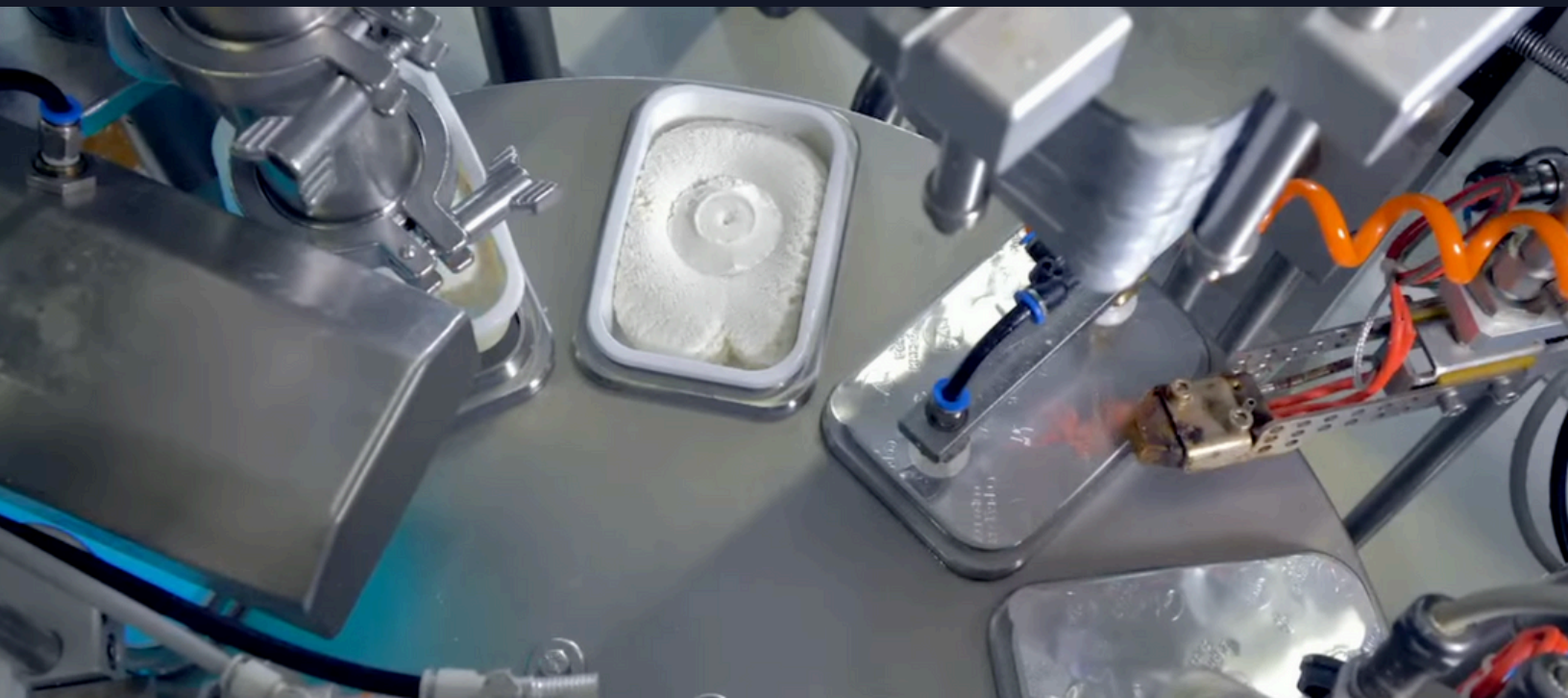


AI Playbook for Food Safety & Quality

Discover top use cases
and key insights



Vision AI for Consumer Packaged Goods

Automate quality inspections, boost production yield, improve safety, and avoid expensive recalls. Transform every stage of your manufacturing process with real-time vision AI.

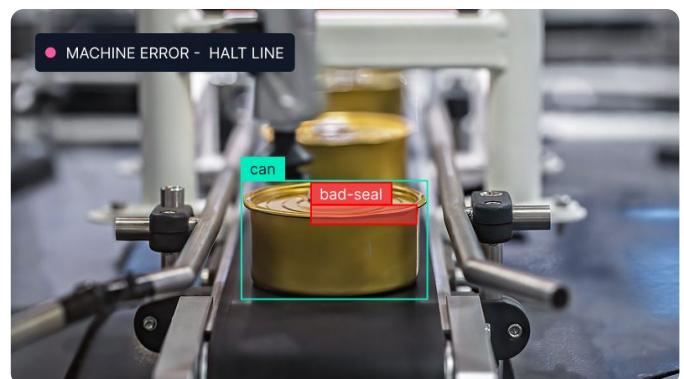
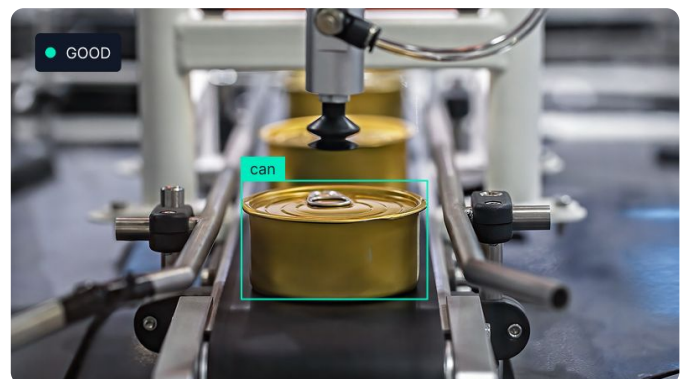
SUCCESS STORY

Saving 6,000 Hours with AI-Powered Packaging Inspections

At a global consumer food company, recurring malfunctions in packaging machines resulted in 6,000 hours of manual reworks and thousands of pounds of wasted products.

To combat this, the company deployed Roboflow's real-time vision AI at key points on the production line. This specialized AI detects packaging flaws like missing or incomplete seals, immediately halting the line when a problem occurs. This allows staff to address issues before they escalate.

By catching defects earlier, the firm expects to eliminate 6,000 hours of manual reworks and reduce waste by up to 30,000 pounds annually.



Automate processes, from start to finish

Enterprises are solving complex challenges with vision AI, from ingredient inspections to label verification.

Leading Manufacturer:

\$8 million

Saved by identifying defects earlier in the production process

Supply Chain Operator:

90%

Less time spent on updating inventory at intermodal yards

Materials Supplier:

60%

Less customer claims thanks to improved product quality

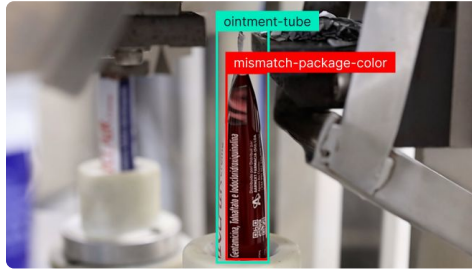
Achieve immediate, organization-wide results.

Roboflow provides the flexibility to deploy state-of-the-art foundation models or develop highly specialized, purpose-trained solutions, enabling enterprises to tackle complex and nuanced challenges with precision.



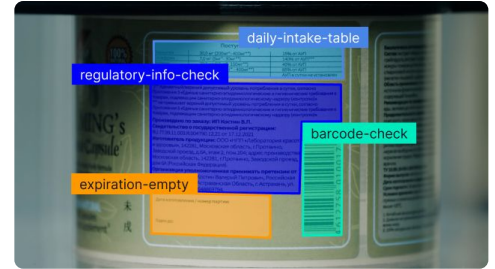
Automate quality inspections

- Detect defects and damage
- Analyze size, color, textures
- Identify contaminants



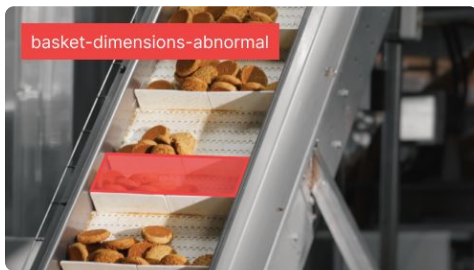
Verify product specifications

- Check component presence
- Ensure correct item counts
- Find process anomalies



Inspect label accuracy

- Read and verify label content
- Identify mislabeled products
- Ensure regulatory compliance



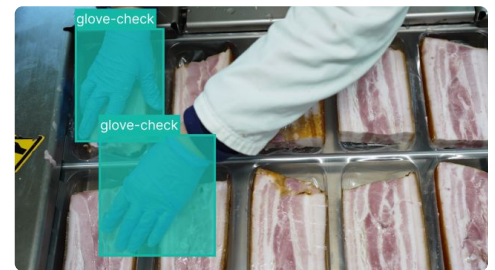
Avoid equipment downtime

- Predict maintenance
- Automate safety checks
- Detect objects in machinery



Optimize inventory operations

- Scan items and expiry dates
- Update inventory automatically
- Understand warehouse utilization



Improve safety compliance

- Enforce proper food handling
- Track safety procedures
- Evaluate & track sanitization

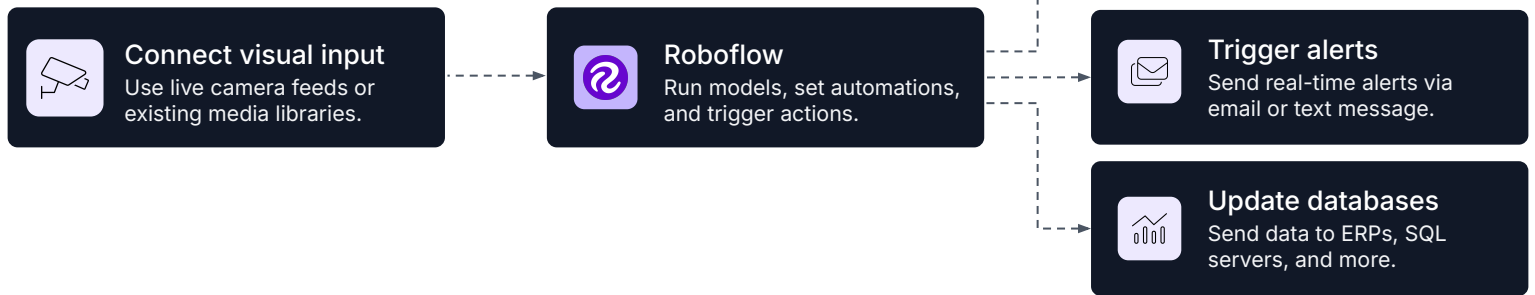
"We've seen situations where, by reducing waste, a single food processor can **eliminate the equivalent of millions of tons of carbon per year**. It feels great seeing AI-powered insights improve profitability and contribute to sustainability goals."

Rian McDonnell Founder and CEO of FloVision

FloVision
SOLUTIONS

Grant your facilities the sense of sight

Design vision-powered automations to update databases, trigger alerts, and other actions based on detections.



INSIGHTS

Visual intelligence across all production lines

Transform data from hundreds of camera feeds into real-time, actionable insights.

- See metrics across sites in one console.
- Trigger alerts to resolve issues immediately.
- Analyze trends and alleviate recurring issues



DEPLOYMENT

Flexible performance where you need it

Run vision AI on your preferred platform and scale across sites.



In the Cloud

Quickly deploy with Roboflow's cloud or use your own infrastructure.



At the Edge

Run locally, without internet, using hardware of your choice.

JETSON ORIN NX
IP24 ENCLOSURE
OPEN COMPONENTS
PLC INTEGRATION

