

AXIS PARTNER SOLUTION

# Smarter Warehouses

Turnkey Vision AI for Axis –  
Powered by PerCV.ai.



## Why Irida Labs?

Irida Labs is an edge computer vision software leader providing the Vision AI platform PerCV.ai and solutions for Industry 4.0, Smart Cities, and custom applications. Their partnership with Axis allows anyone to deploy AI applications directly to Axis AI network cameras and test on the field in a matter of minutes.

## Why network video?

- > Superior image quality
- > Remote accessibility
- > Easy, future-proof integration
- > Scalability and flexibility
- > Cost-effectiveness
- > Distributed intelligence
- > Proven technology

## Why Axis?

- > Industry leader in network video
- > Global market presence
- > Strong partner network
- > Smart, innovative products and services for video surveillance, access control, audio systems, and video analytics



## Where to use PerCV.ai?

Irida Labs' Vision AI platform, PerCV.ai, is powering a large number of computer vision and AI solutions for the warehouse and logistics sectors. Warehouse operators, logistics companies, manufacturing plants, and distribution centers can benefit from Vision AI solutions for inventory tracking, product identification, workstation monitoring, and truck load management, improving safety, efficiency, and compliance. Third-party logistics (3PL) providers can also optimize their supply chain operations using cutting-edge technologies.

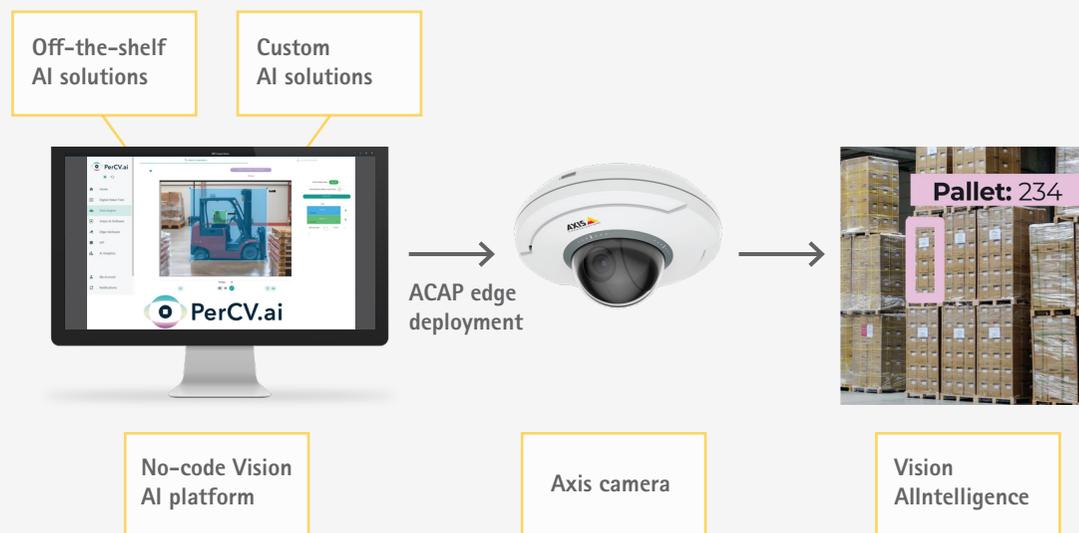
On the other hand, system integrators, consulting firms, and IT service providers can implement and customize these solutions for their clients, and industrial IoT providers can integrate PC.ai platform and solutions to their systems to enhance automation and monitoring in smart warehouses.



## PerCV.ai Platform – overview

Irida Labs PerCV.ai is an innovative Vision AI platform that simplifies computer vision development. The platform offers seamless end-to-end support, bringing together all the necessary building blocks for implementing and scaling up Vision AI systems. These include the AI models, data engine, edge AI optimization, APIs and AI analytics, which work in combination to streamline the development and deployment of advanced vision-based applications.

The seamless integration of PerCV.ai platform with Axis AI network cameras enhances warehouse operations with high-quality video analytics for real-time monitoring of inventory, equipment, and personnel, ensuring improved safety, efficiency, and regulatory compliance. Furthermore, it significantly speeds up time-to-market for new solution deployments with low AI expertise requirements, and unprecedented scalability.



## Beyond vision | Transforming Axis cameras to AI sensors

Pre-packaged Vision AI Solutions for warehouses and logistics, powered by PerCV.ai platform, optimized for Axis hardware processing capabilities

- > All-in-one solution: PerCV.ai Edge AI software integrates smoothly within Axis cameras, minimizing setup expenses and time and requiring no additional hardware
- > No code expertise needed, easy-to-use cloud-to-edge-to-cloud deployments. Users don't need coding skills to deploy and manage the AI solutions. They can leverage the cloud for training and managing AI models while deploying them to the edge (Axis cameras) for real-time processing
- > Build custom AI models tailored to your use case. While plethora of pre-packaged solutions are available, users can also build their own AI models using the platform to address specific needs. This customisation allows businesses to create AI solutions that precisely fit their unique use cases and challenges
- > Instantly upgrade Axis cameras into a smart AIoT sensors. By integrating the PC.ai platform, Axis cameras are upgraded into intelligent sensors capable of performing AI-powered analysis.



Warehouse monitoring



Packaging quality inspection



Product QR scanning



Vehicle recognition



Personnel safety PPE monitoring



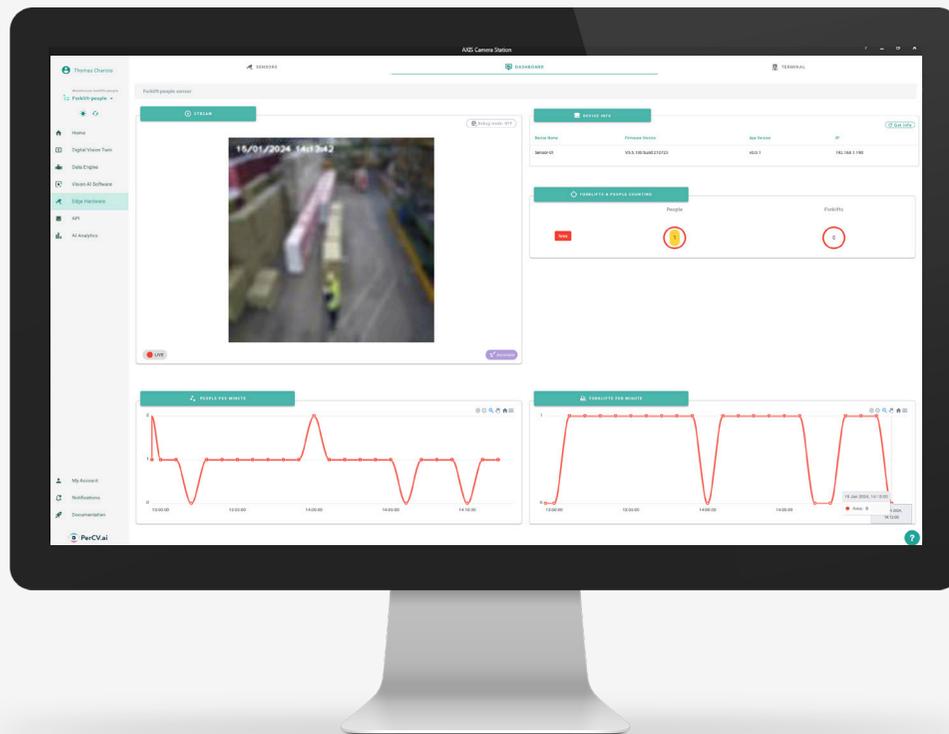
Product counting



## Use case: automated warehouse monitoring

### Challenge

A leading construction materials manufacturer wanted to monitor in real-time the operations on a warehouse for health and safety conformity. Specifically, they needed to understand the movement patterns of forklifts in relation to employee movements in a privacy preserving manner, in order to optimize product routes and safety protocols. Being able to distinguish between the different types of employees based on their uniform was a big plus. Such AI-driven insights were critical in the next-gen safety optimization of the warehousing environment.



### Solution

Vision AI Forklift and PPE monitoring solution powered by PerCV.ai platform, running on Axis.

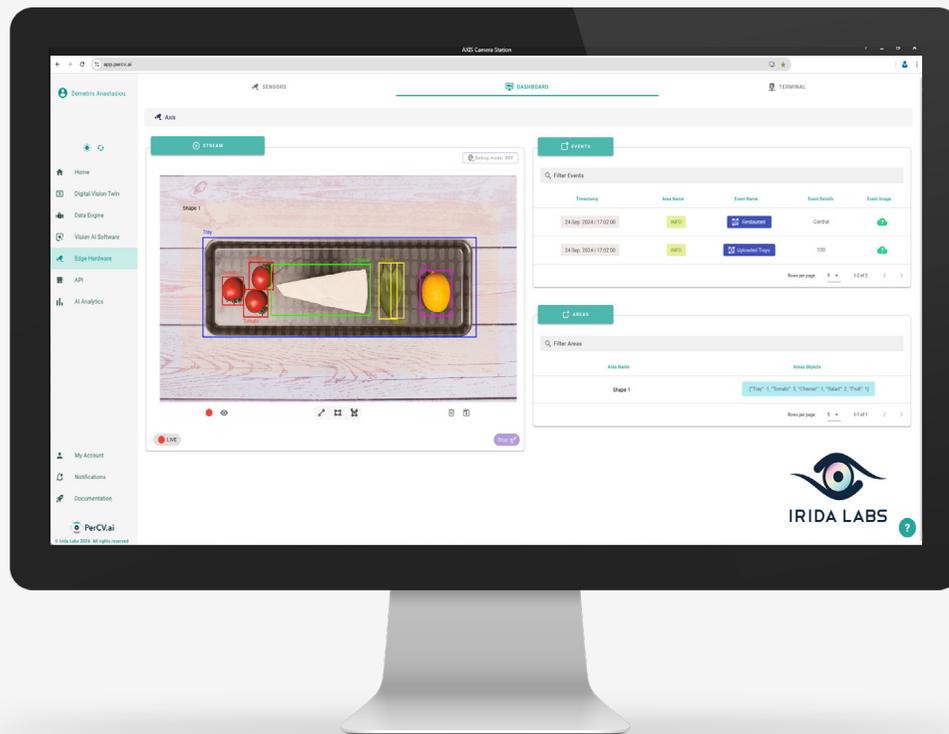
### Functionalities

- > Real time detection, tracking and heatmapping of forklifts, and company-specific PPE that distinguishes employees in categories based on uniform apparel
- > Actionable insights based on movement patterns of vehicles and personnel

## Use case: food tray monitoring

### Challenge

A customer in the quick service restaurant industry wanted to identify in real-time the contents of food trays, aiming at standardization, top-quality and food waste reduction. Serving hundreds of thousands of trays per month, human inspection was a no-go, while video monitoring resulted in huge data storage and cloud resources.



### Solution

Food Tray Inspection Solution powered by PerCV.ai platform, running on Axis.

### Functionalities

- > Real time detection, tracking and counting of disk trays and food categories, with optimal photo opportunity and snapshot upload to cloud endpoint and local
- > Actionable insights based on food consumption, food leftovers, etc.

# About Axis Communications

Axis enables a smarter and safer world by improving security, safety, operational efficiency, and business intelligence. As a network technology company and industry leader, Axis offers video surveillance, access control, intercoms, and audio solutions. These are enhanced by intelligent analytics applications and supported by high-quality training.

Axis has around 5,000 dedicated employees in over 50 countries and collaborates with technology and system integration partners worldwide to deliver customer solutions. Axis was founded in 1984, and the headquarters are in Lund, Sweden.