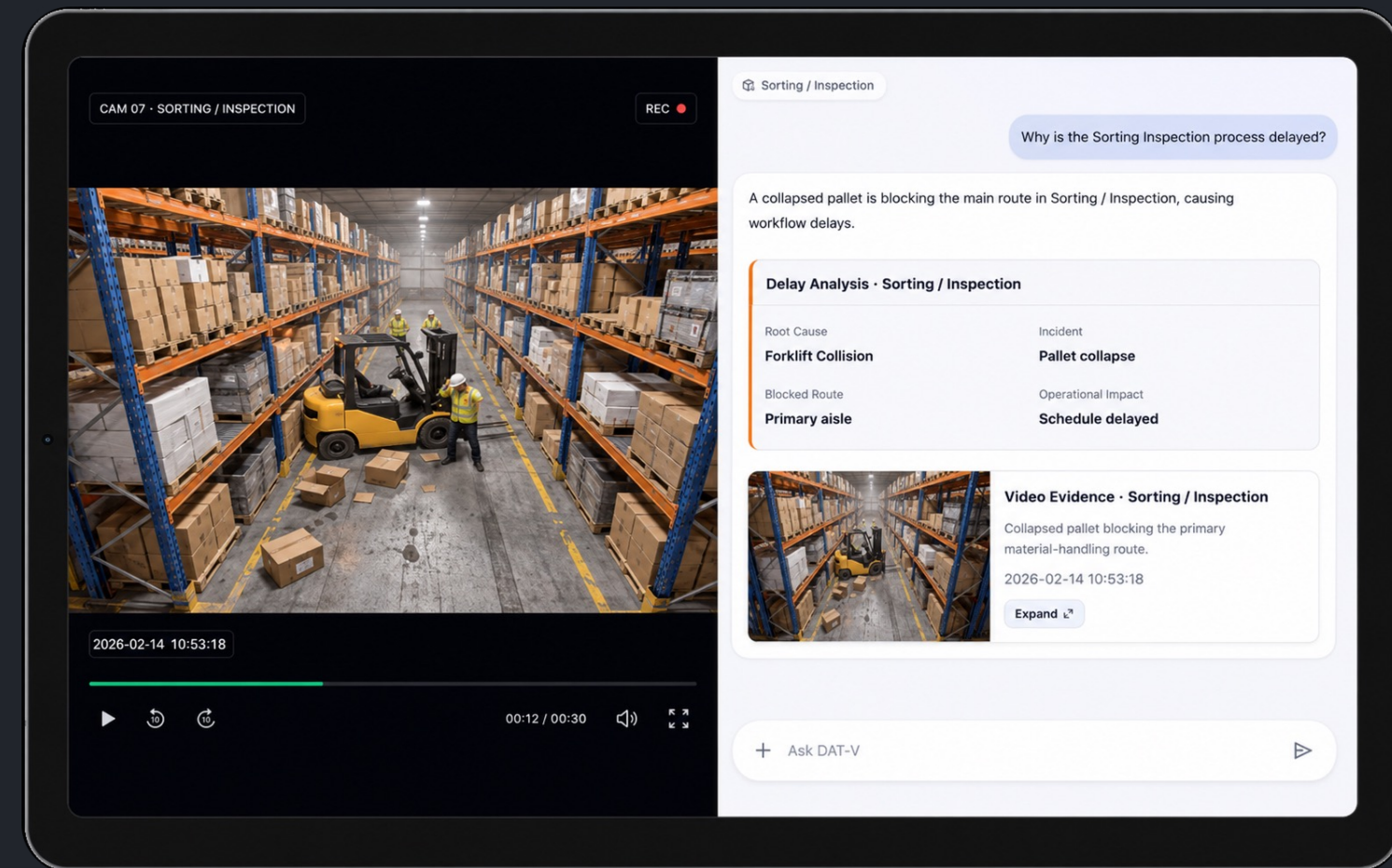
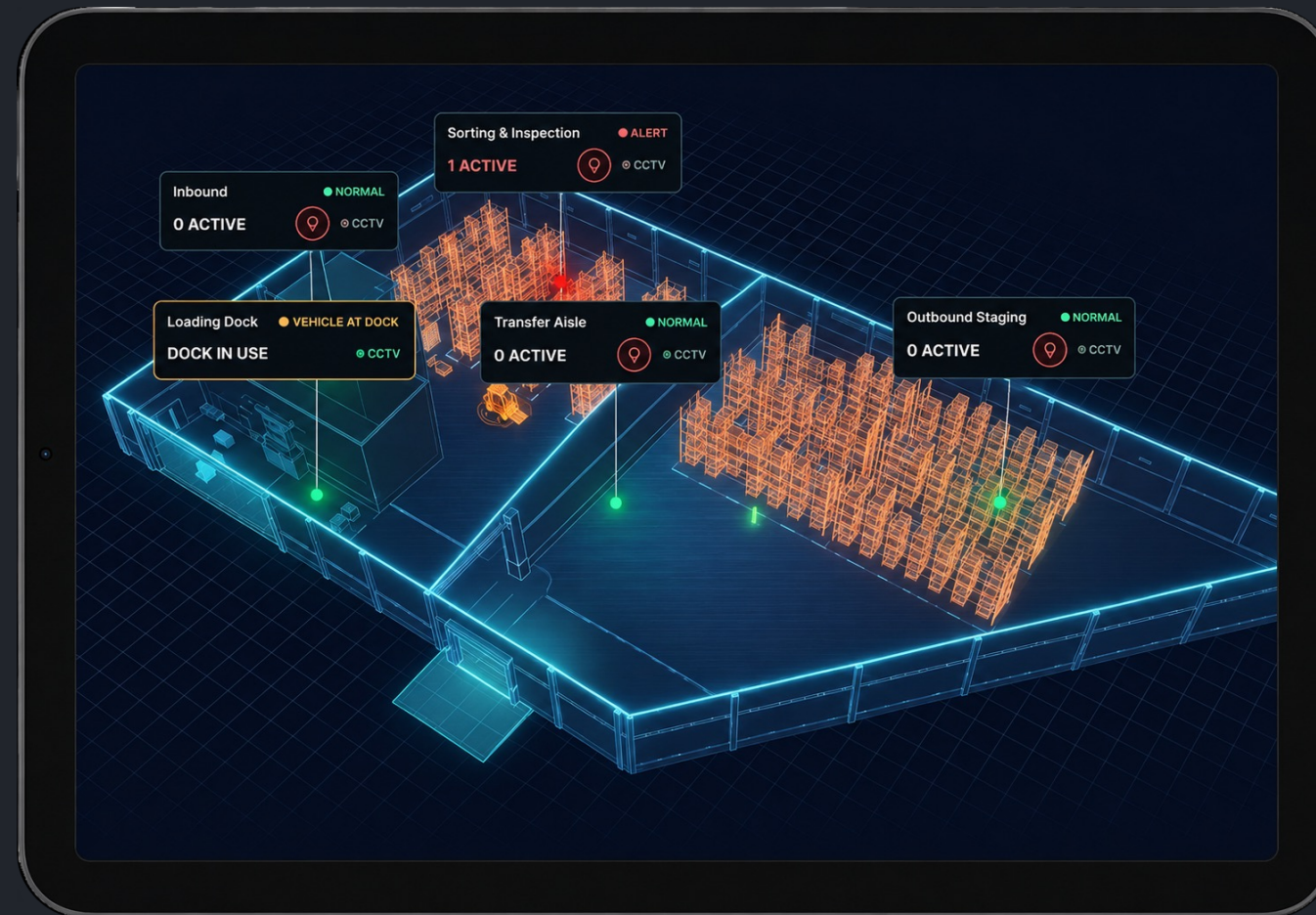




ProboticsOS

Factory AI Operating System

Turn your factory CCTV into a Digital Twin

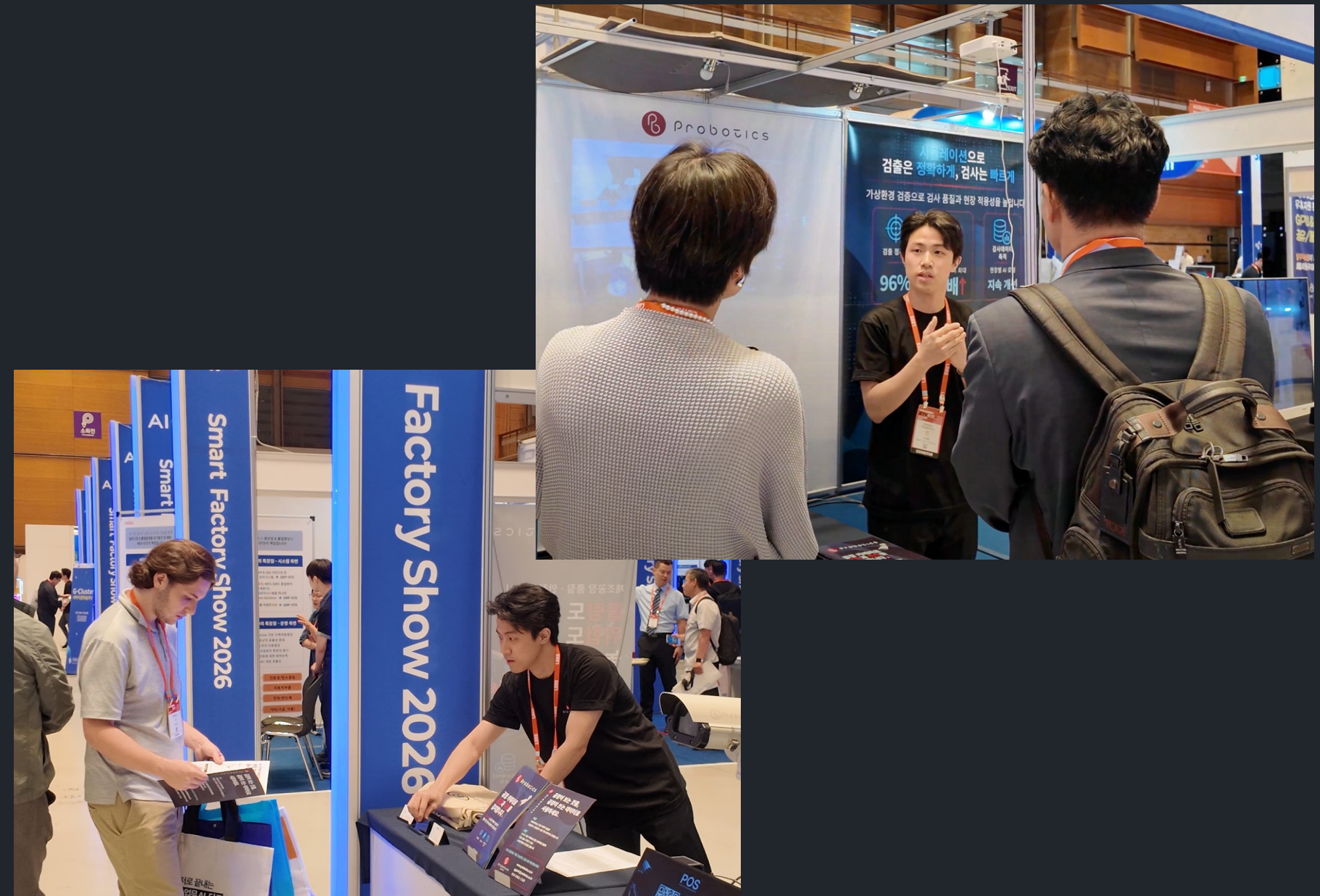
gypark@probotics.co.kr | www.probotics.co.kr/en



We bring physical AI to every factory.

Probotics builds ProboticsOS,
An edge AI operating system that transforms
existing factory CCTV into a live digital twin.

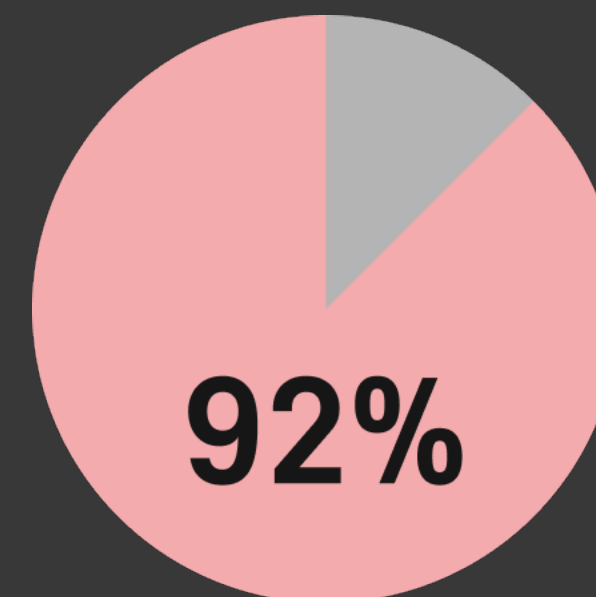
- Founded in 2025, Seoul, South Korea
- AI × Robotics × Manufacturing



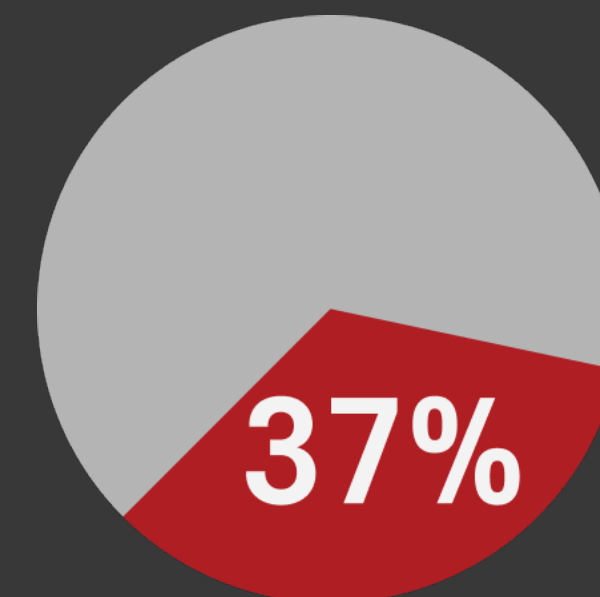
Partners



Automation is the future.
Most factories **can't afford** the way in.



Says automation is essential



Actually have it

Vention × Industry Week, survey of 214 U.S. manufacturers, 2025

Today's Digital Twins Are Too Expensive.

Industrial Digital Twins Cost(Up to)

\$ 135,000

Industry cost benchmarks for industrial as-built documentation
(3D scanning + scan-to-BIM) and single-line digital twin pilots, 2025.

Driven by

3D Scan

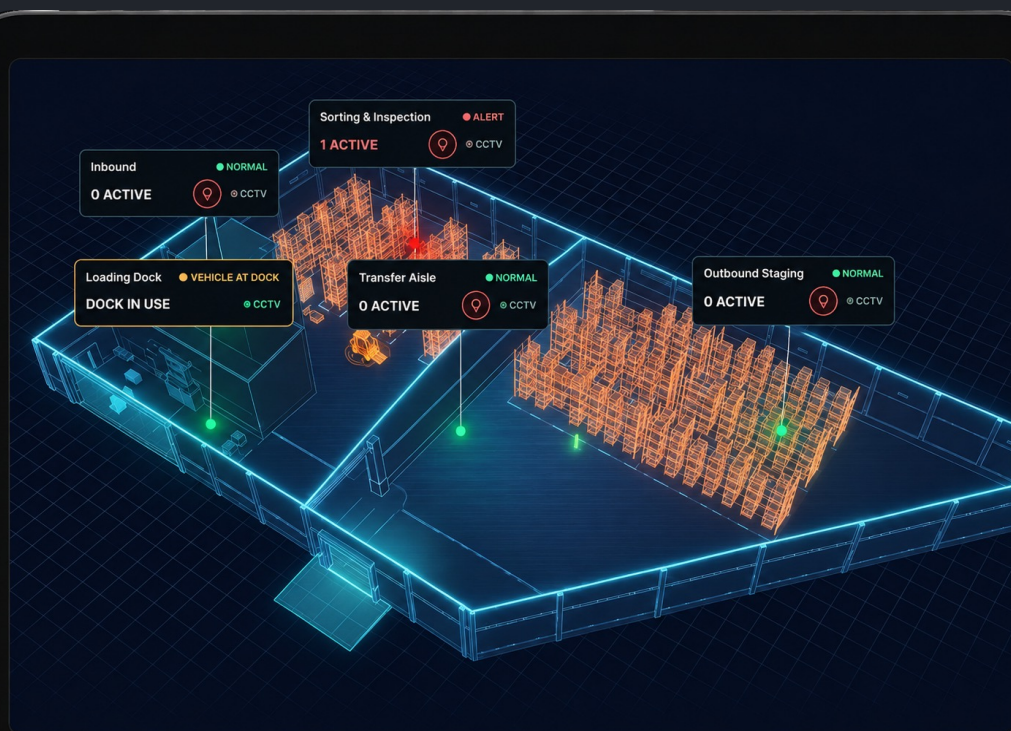
**As-Built
Modeling**

**New
Sensors**

ProboticsOS starts with the **CCTV** you already have.
Same Camera. New job.

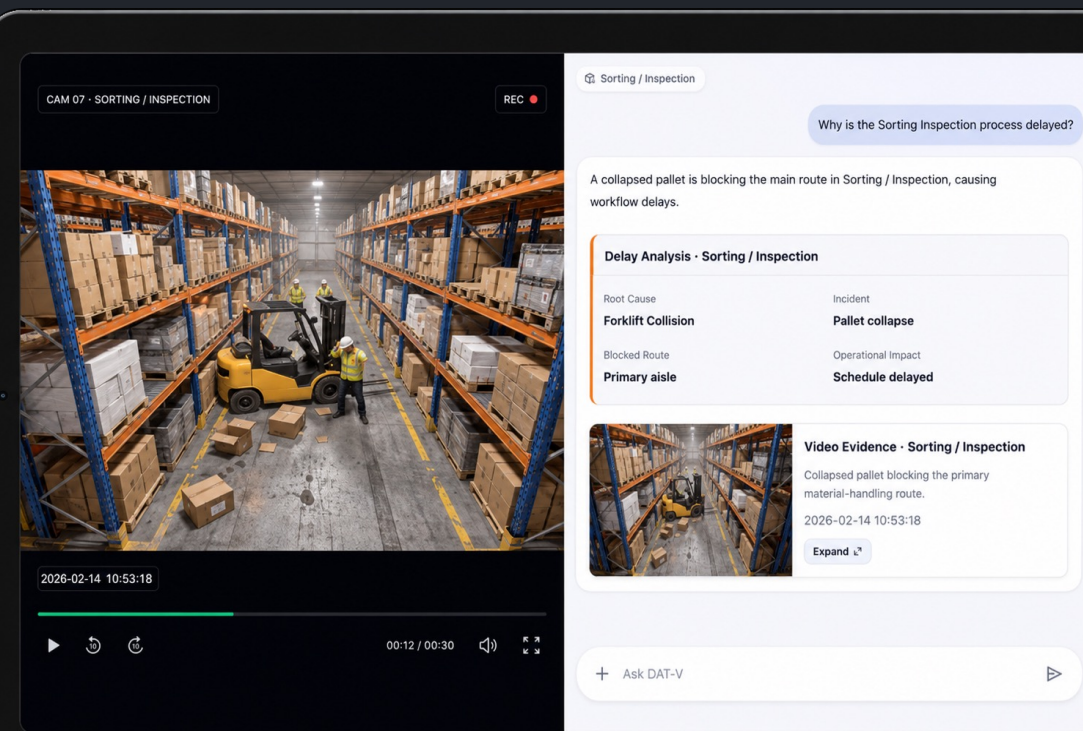
1

CCTV-based Digital Twin



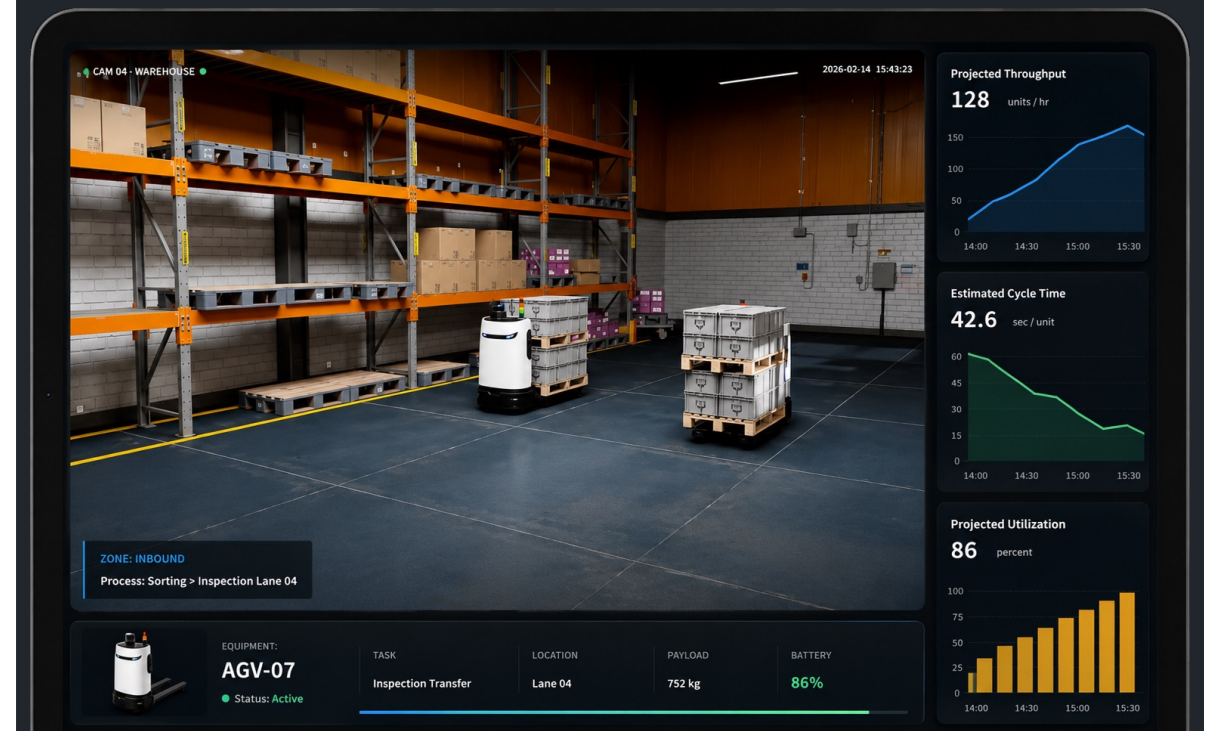
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Factory Vision AI Agent

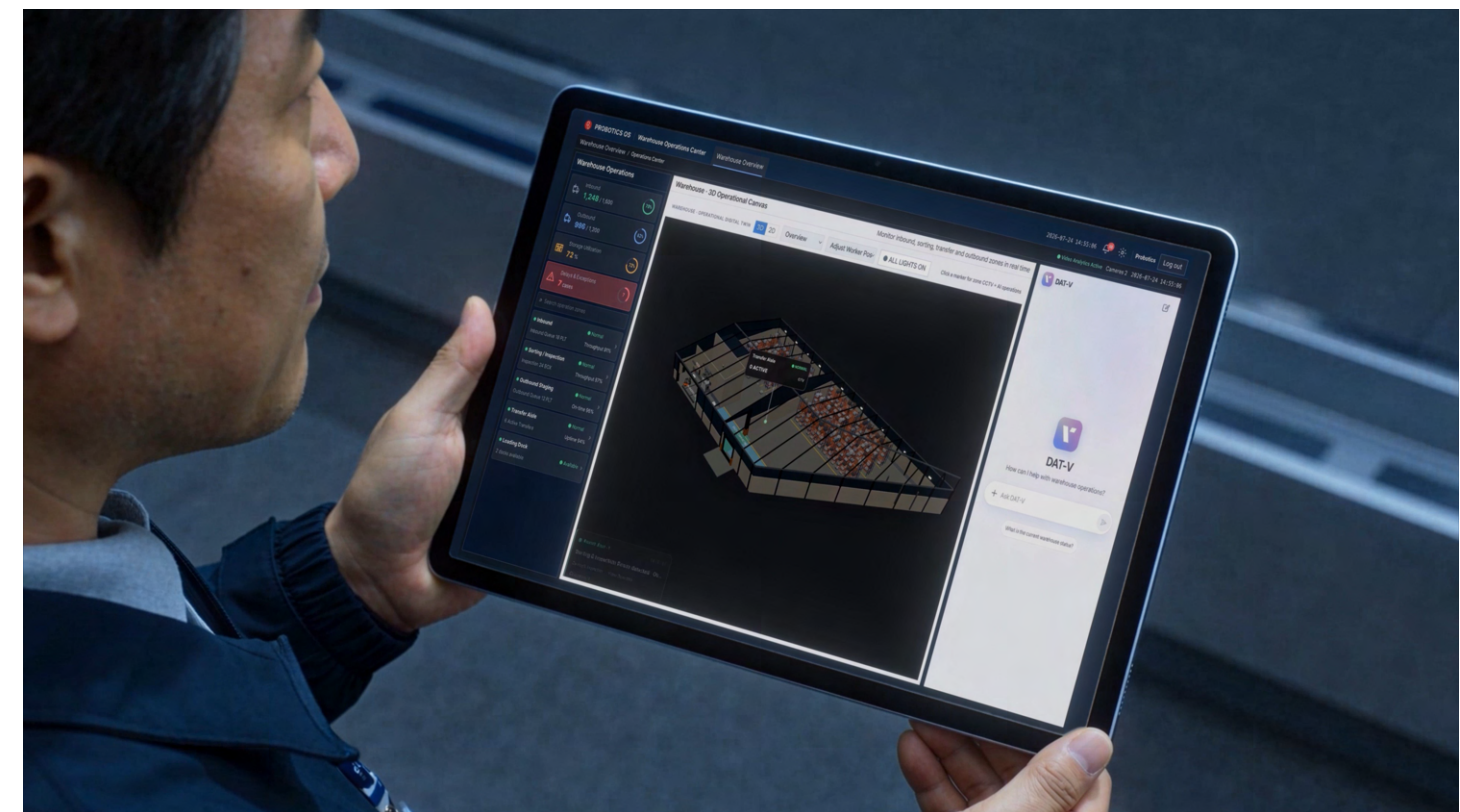
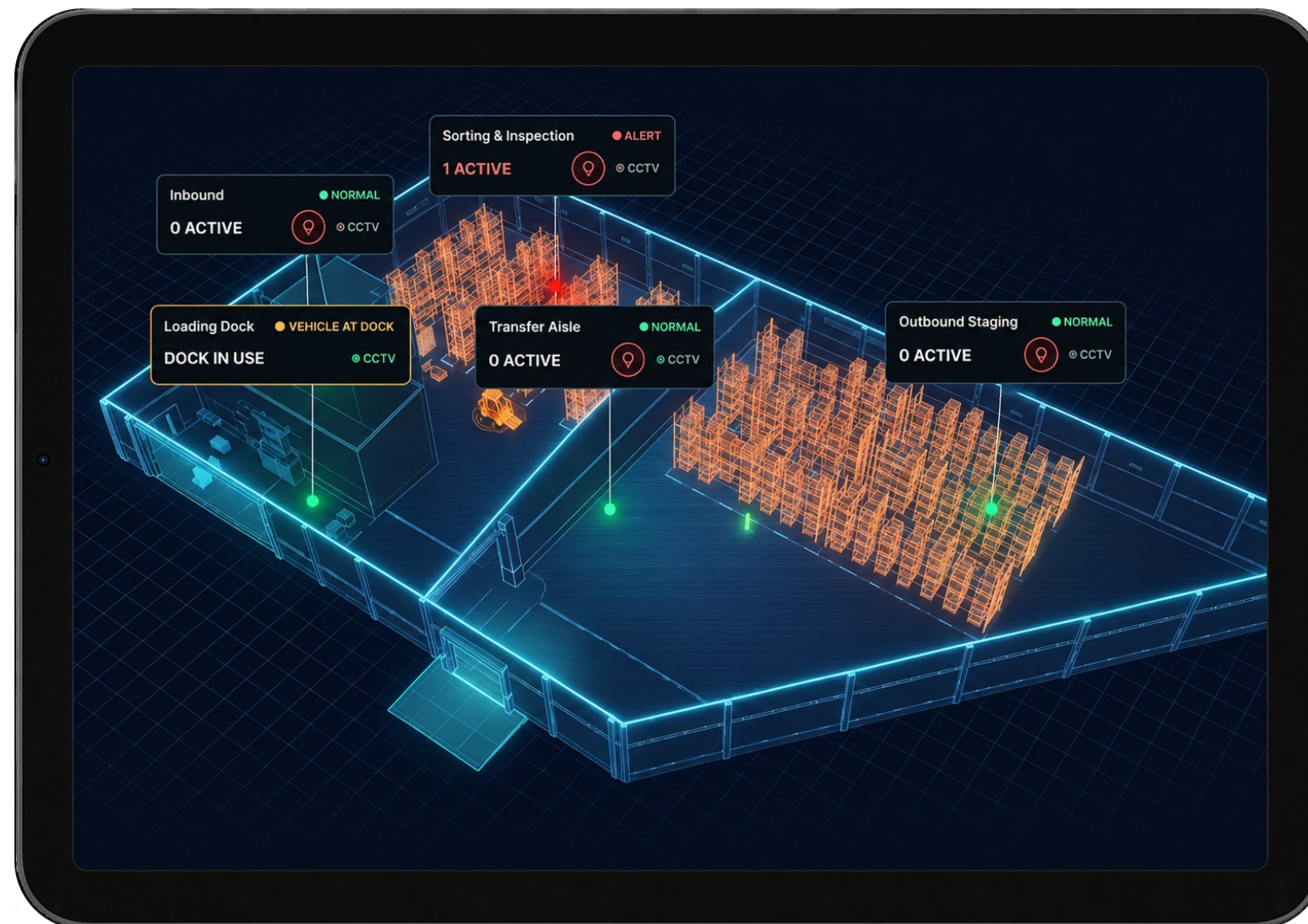


3

Robot Simulation

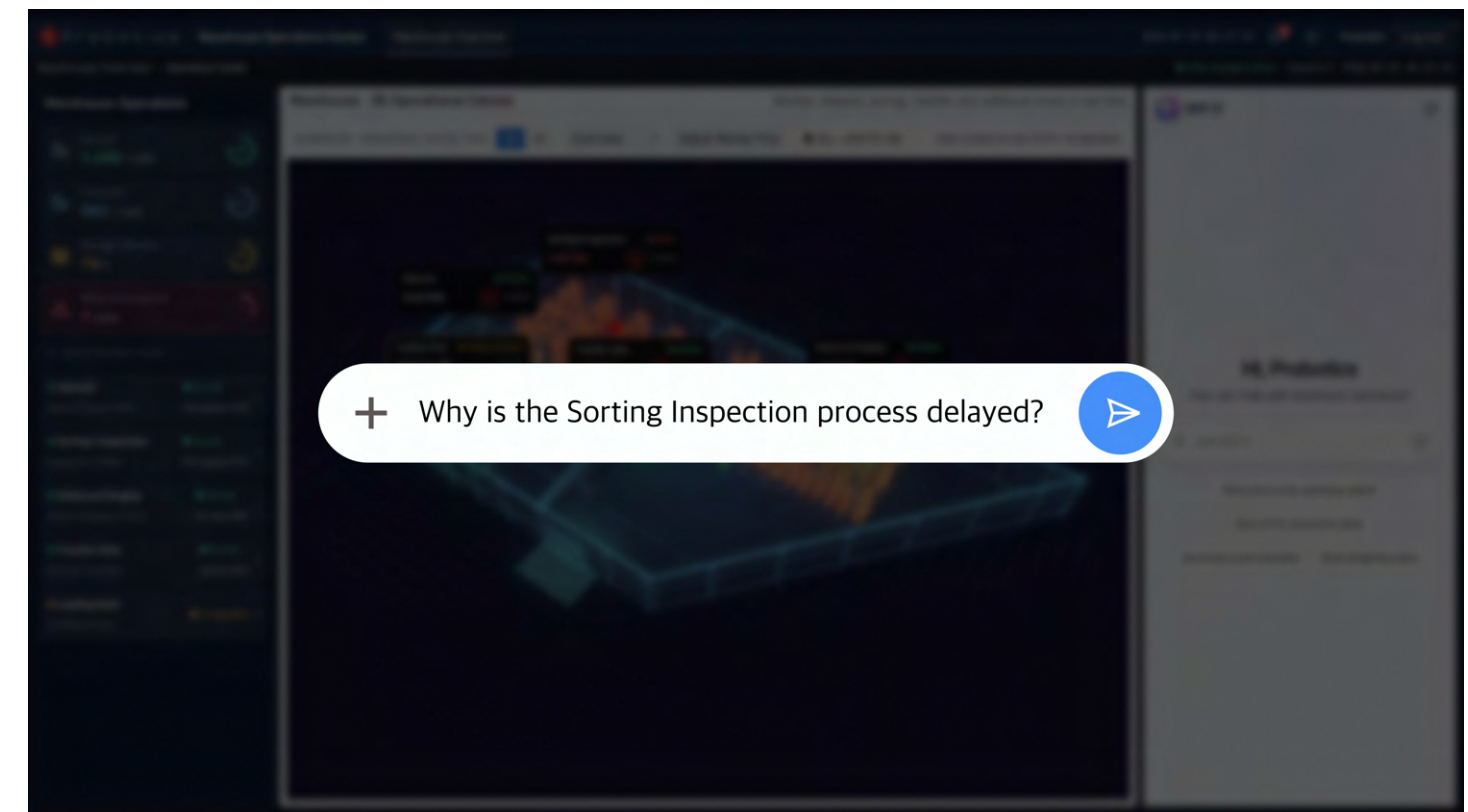
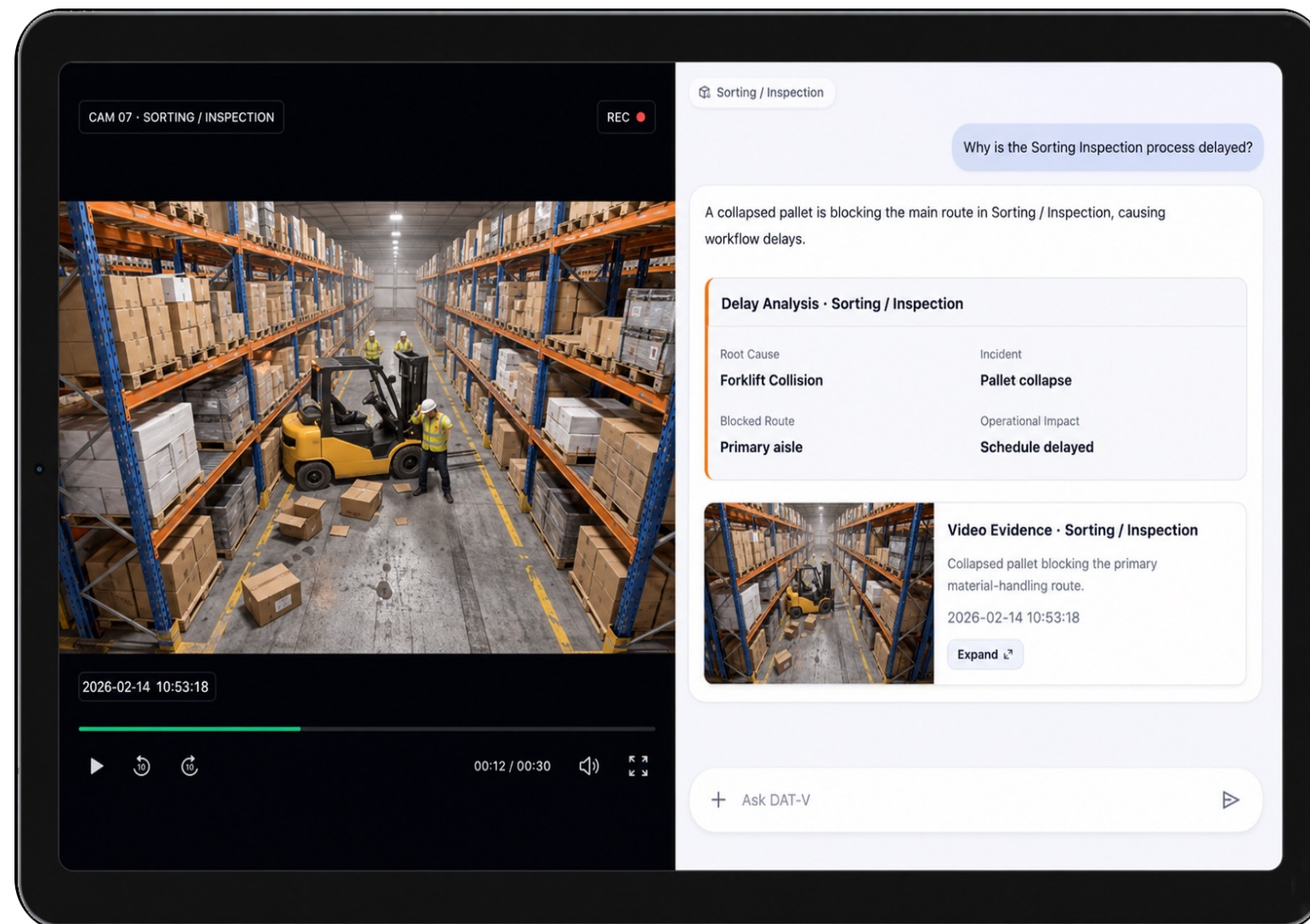


See your whole factory on **one screen**.



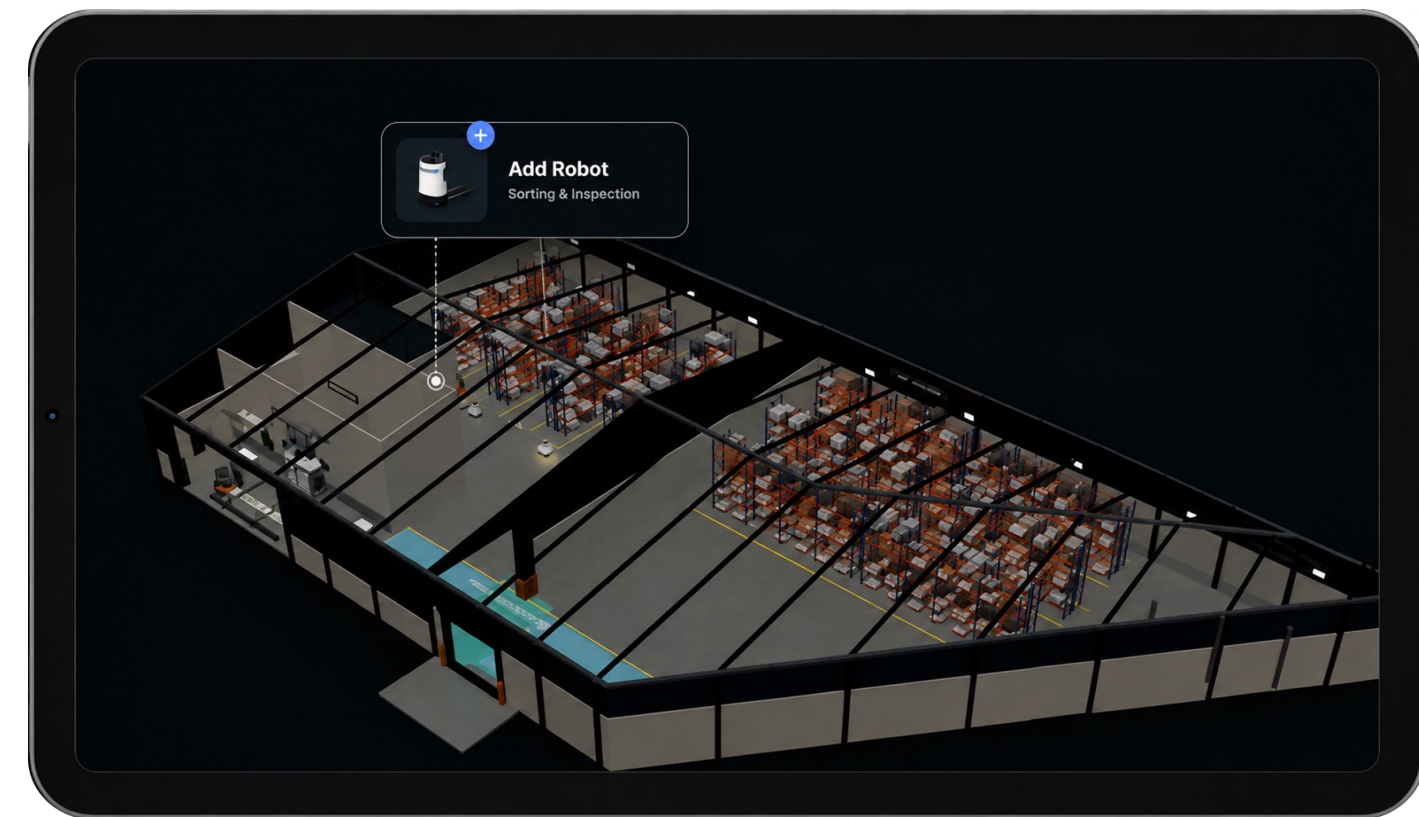
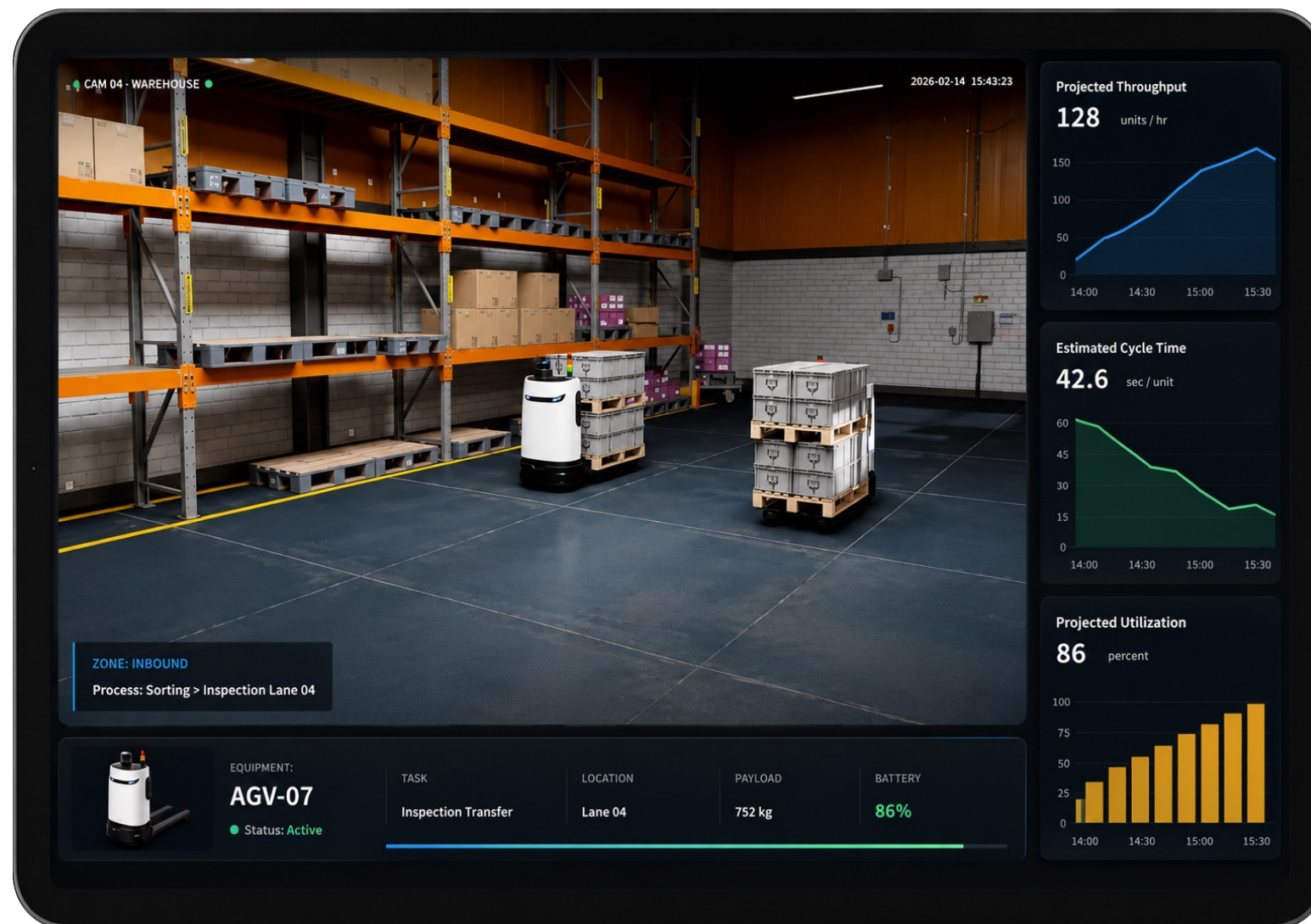
- Reconstructs the floor in 3D from camera footage.
- Zone status and events update in real time.
- No LiDAR, no 3D scanning, no new sensors.

Ask your factory why. It answers with the footage.



- Ask "why did this process fall behind?" and get an answer
- Every answer comes with the video that proves it
- Finds the moment no one was watching

Test a robot inside your digital twin before you buy it.



- Drop the robot you're considering into your own factory
- See throughput, cycle time, and where it bottlenecks
- Runs on your real operating data — not vendor specs

Up to 70% Lower Adoption Cost

Conventional	vs	ProboticsOS
 3D Scanning		 Existing CCTV
 As-built modeling		 Automatic reconstruction
 New sensor infrastructure		 No new sensors
 Months of consulting		 1-2 months
\$ 43k – 135k		\$ 8k – 16k

Comparison covers automation preparation cost only; robot hardware and integration are excluded. Conventional route based on industry cost benchmarks for industrial as-built documentation (3D laser scanning + scan-to-BIM) and single-line digital twin pilots, 2025.

CCTV is the way in – at a fraction of the cost.

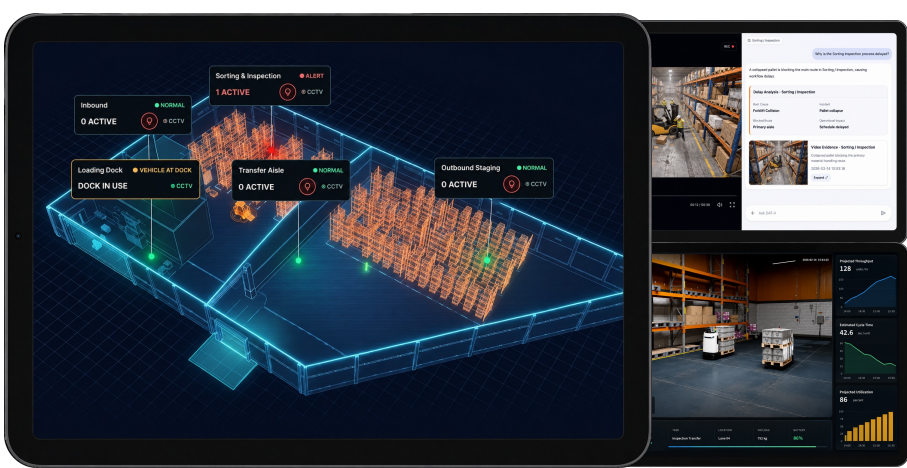
How Factory CCTV Becomes a Digital Twin



Existing CCTV



Edge AI Vision



Digital Twin + AI Agent

Industries



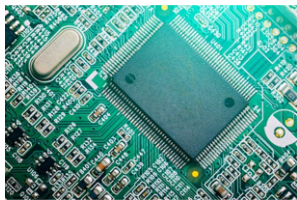
Food & Beverage



Chemical



Metalworking



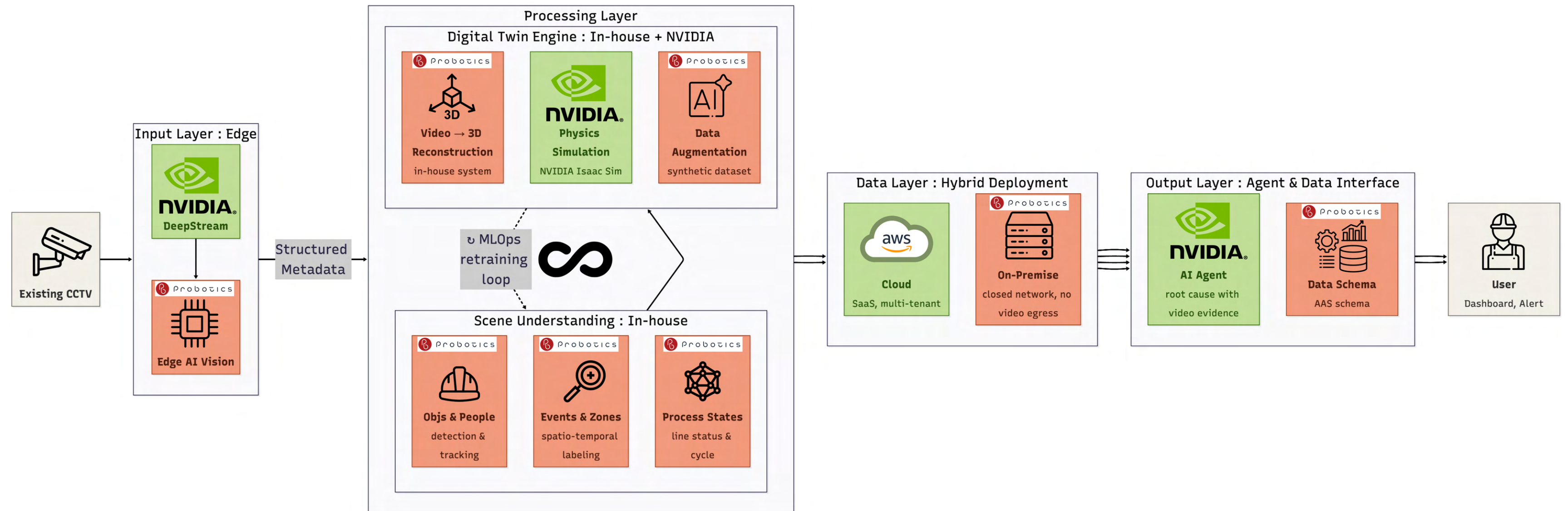
Electronics & Materials



Plastics

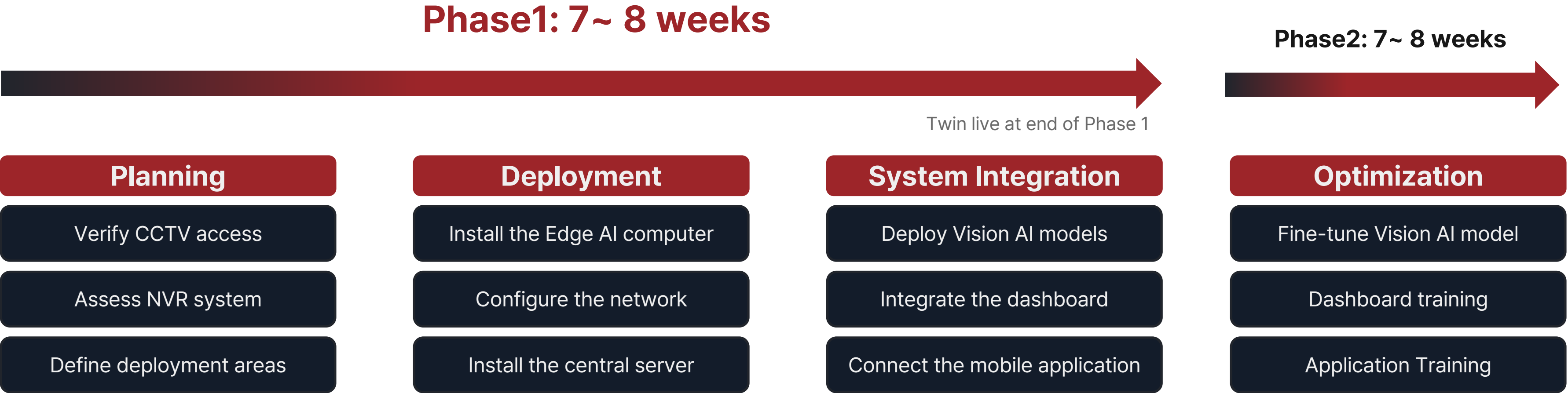


Logistics

Powered by **NVIDIA Technologies**

05

Deployment



Additional Vision AI models can be deployed within **1 month** after installation whenever new requirements arise.

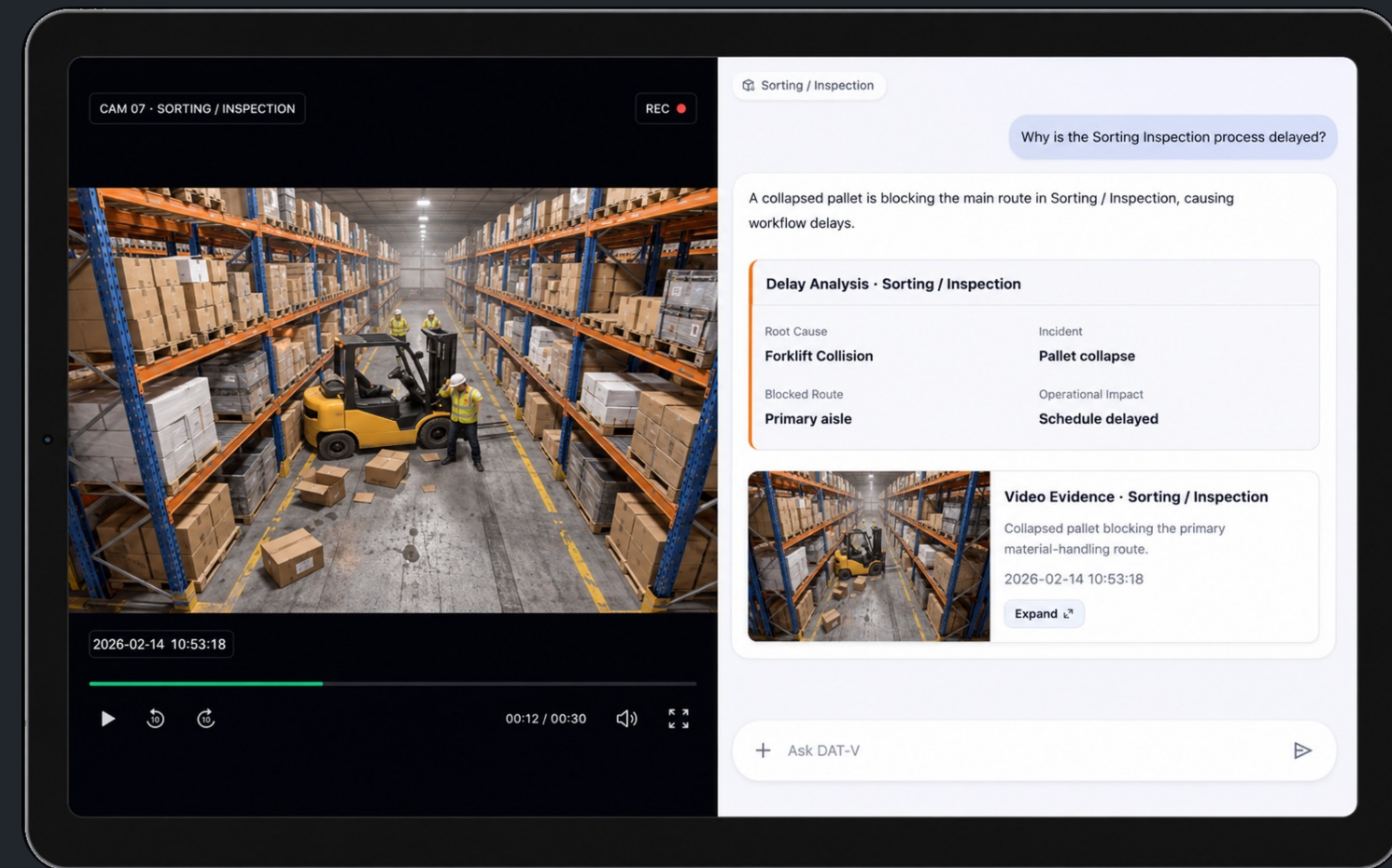
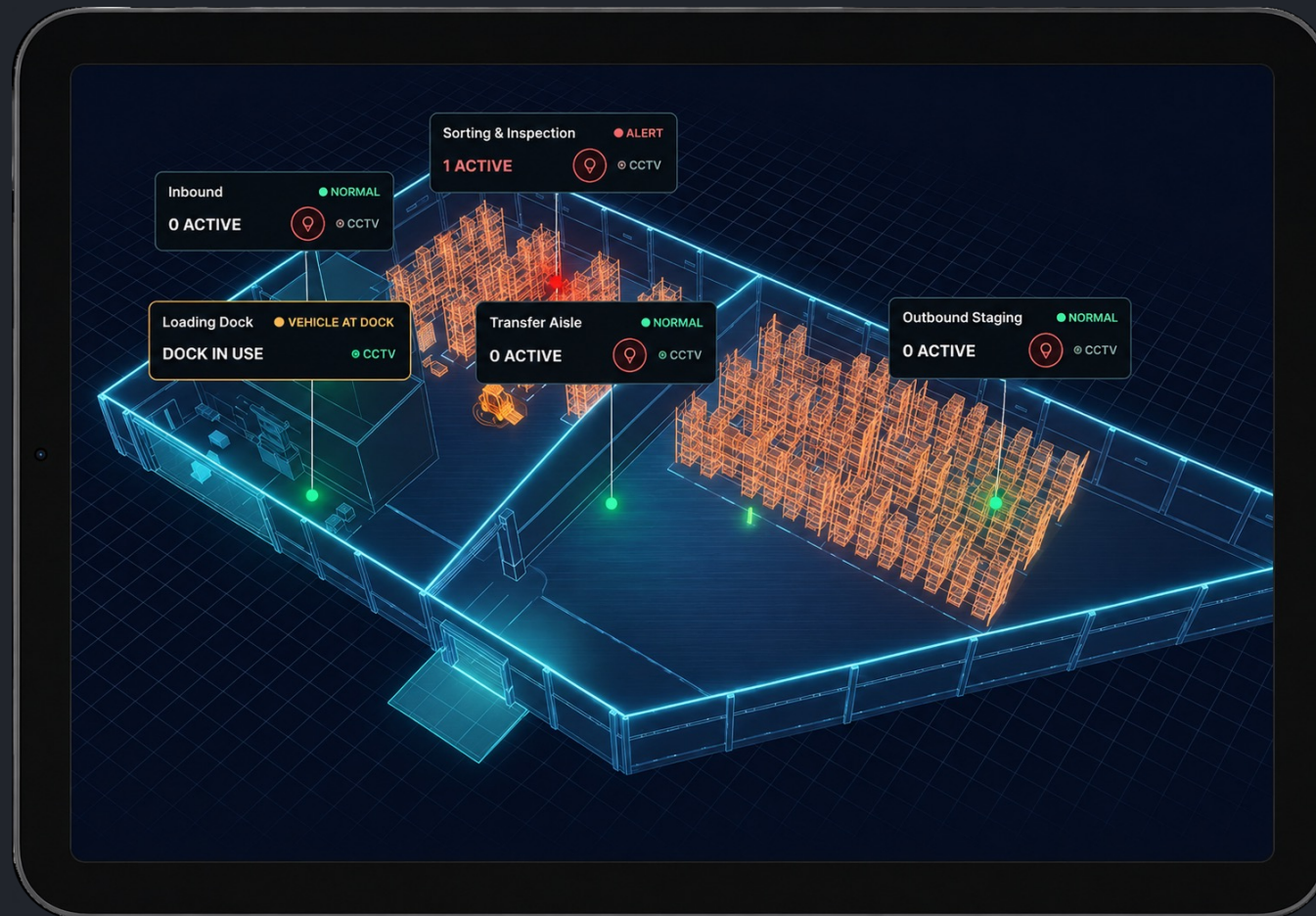
Edge AI Vision
Computer



Specifications	Basic	Pro	Enterprise
AI Performance	40 TOPS	100 TOPS	275 TOPS
Memory	8GB	16GB	64GB
Storage	Optional NVMe SSD	NVMe SSD / High-Capa Storage	RAID / NAS / Server Integration
Networking	GbE	GbE / Optional 2.5 GbE	2.5 GbE / 10GbE / Intranet
Video Inputs	Up to 4 x 1080p @ 24fps	Up to 8 x 1080p @ 24fps	Up to 16 x 1080p @ 24fps
Coverage	Up to 10,000 sq ft (930 m²) Single line or work cell	Up to 20,000 sq ft (1,860 m²) Small to mid-size plant floor	Up to 40,000 sq ft (3,720 m²) Mid-size plant, multi-zone

Coverage estimated at ~2,700 sq ft (250 m²) per camera at 13–20 ft (4–6 m) mount height with 20% overlap. Actual coverage varies with lens, ceiling height, and layout.

Larger facilities scale by adding units – multiple boxes, one digital twin



Thank you

Turn your factory CCTV into a Digital Twin

gypark@probotics.co.kr | www.probotics.co.kr/en