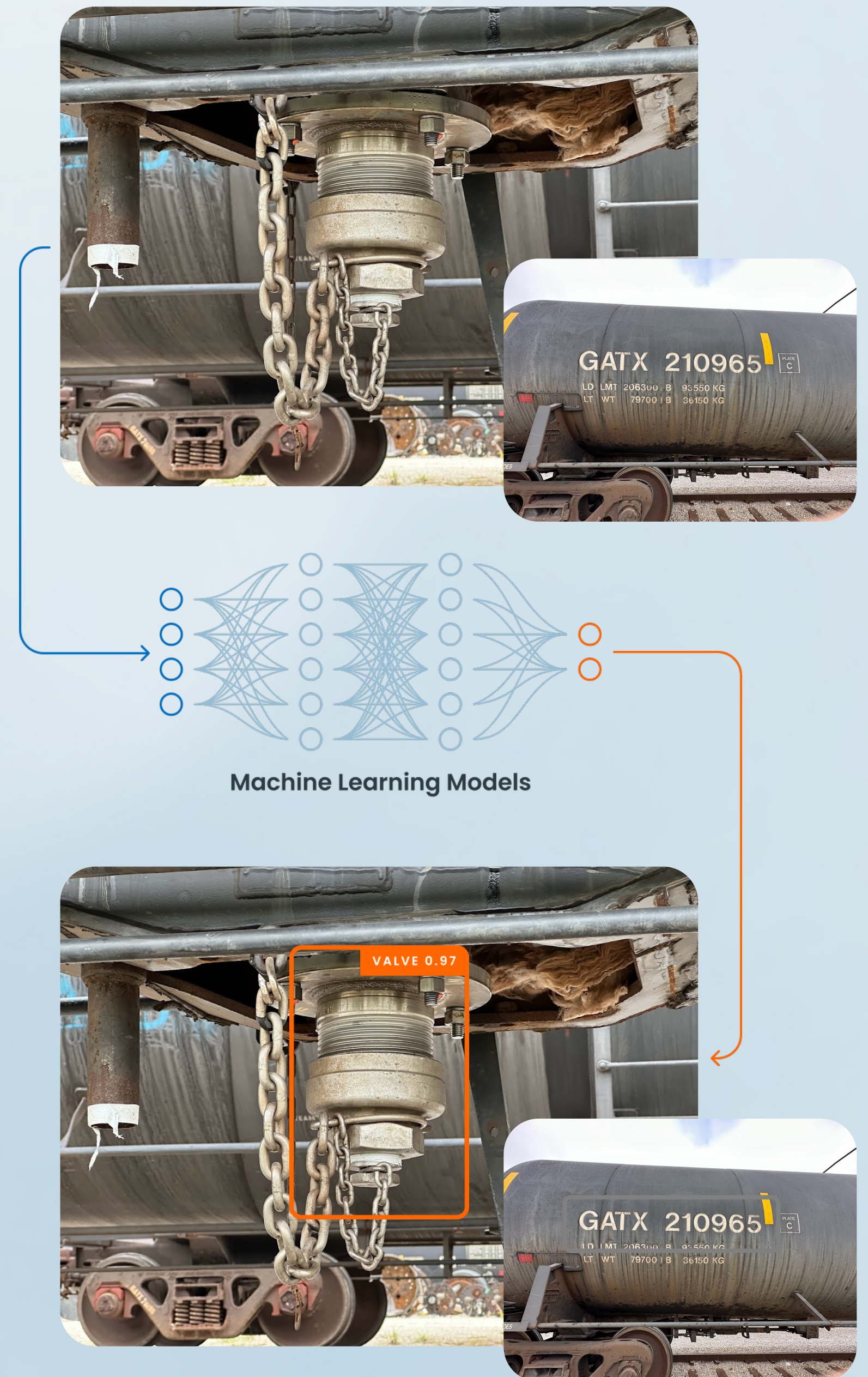


# **Creating Business value with Industrial AI**

---



# What is Vision AI





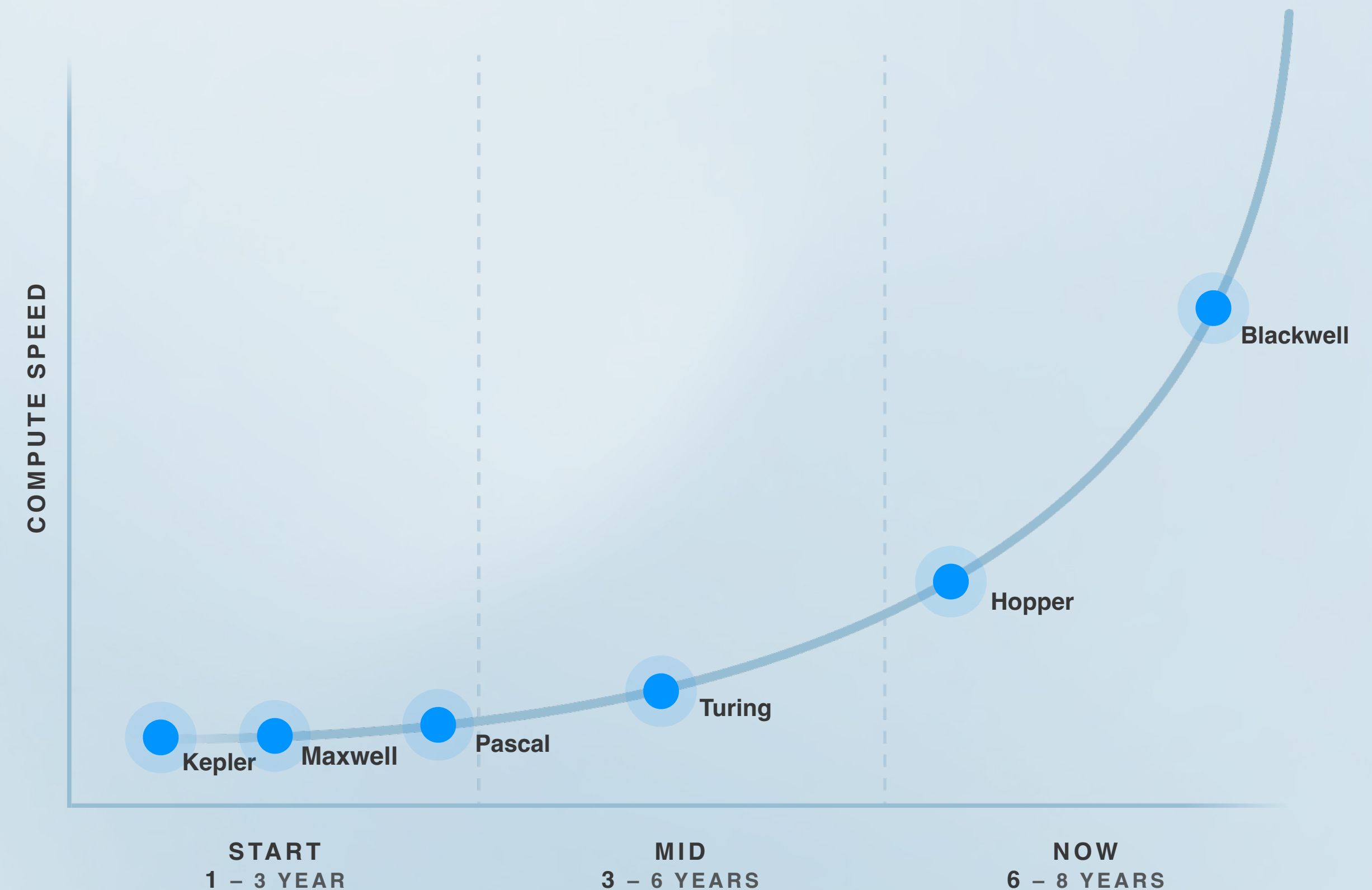
# Power of Vision AI

Local decision  
making

Operates 24/7

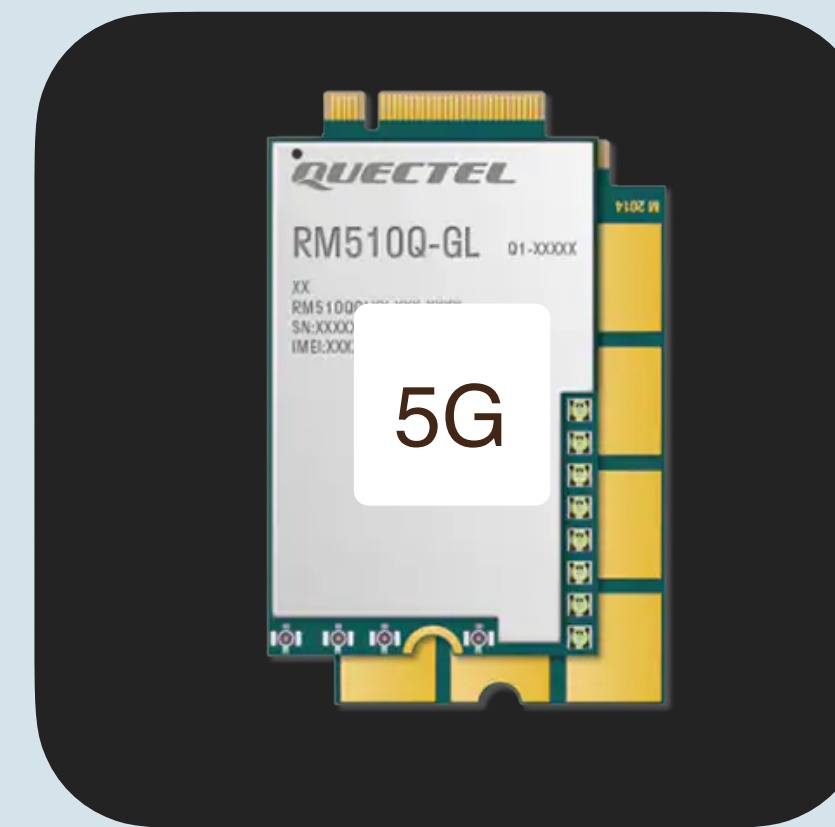
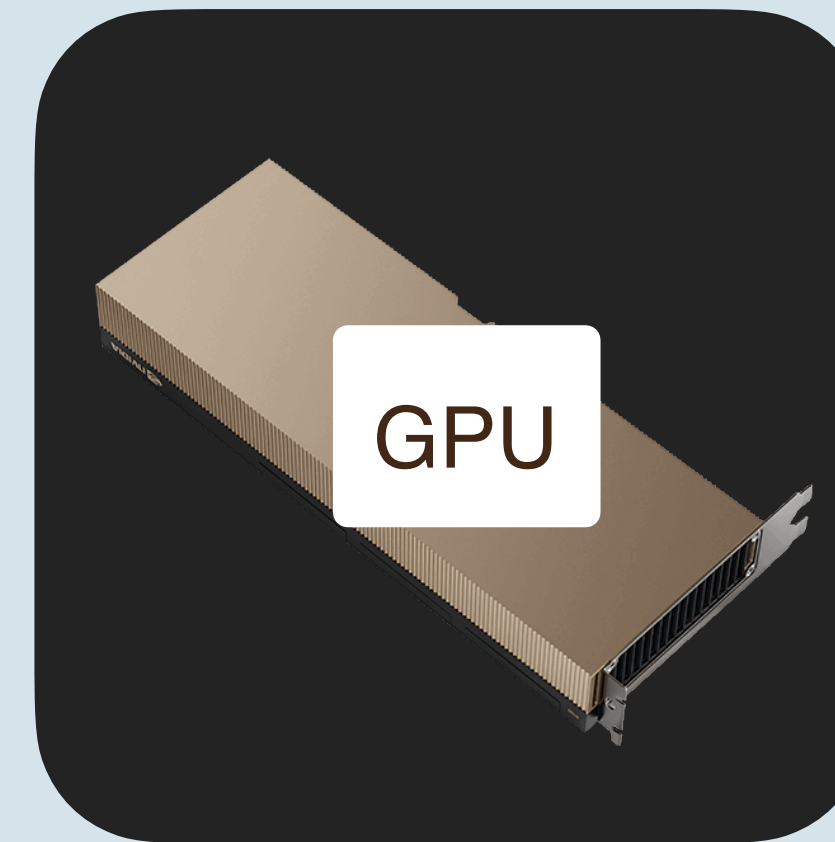
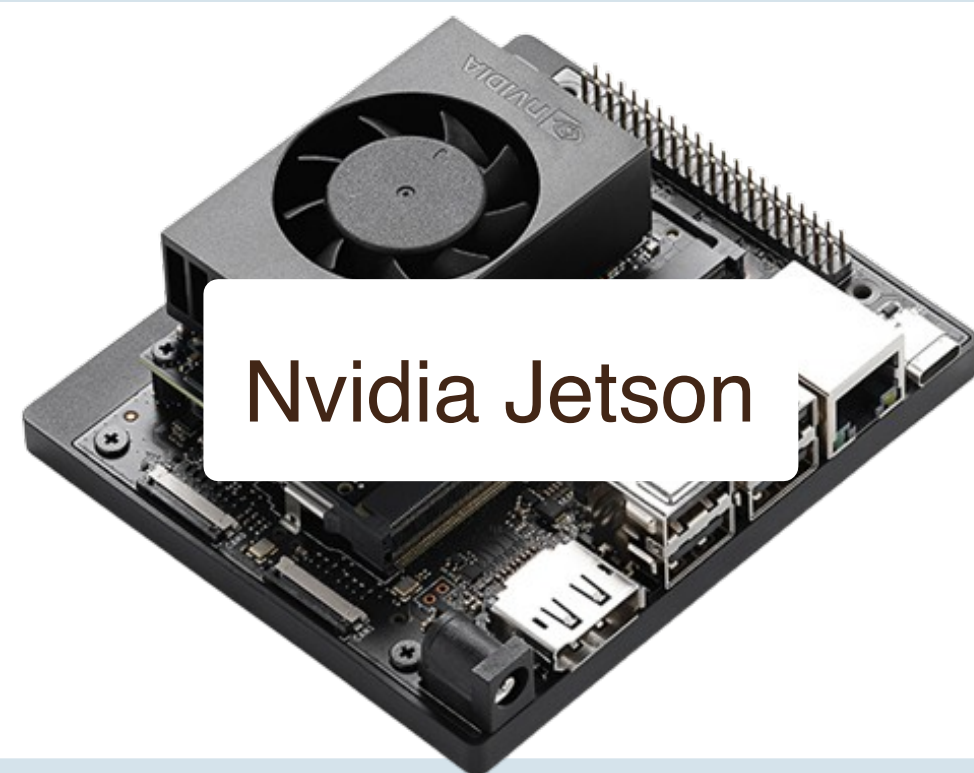
Reliable

High Quality  
Standards



# Edge Computing

Platforms I use:





# Hardware

## **Drone**

DJI Dock 2

## **Robot**

Fanuc, StandardBots


## **Camera**

High speed, GigaPixel







 STANDARD BOTS





# Camera

**Connectivity:**

**USB3  
GigE**

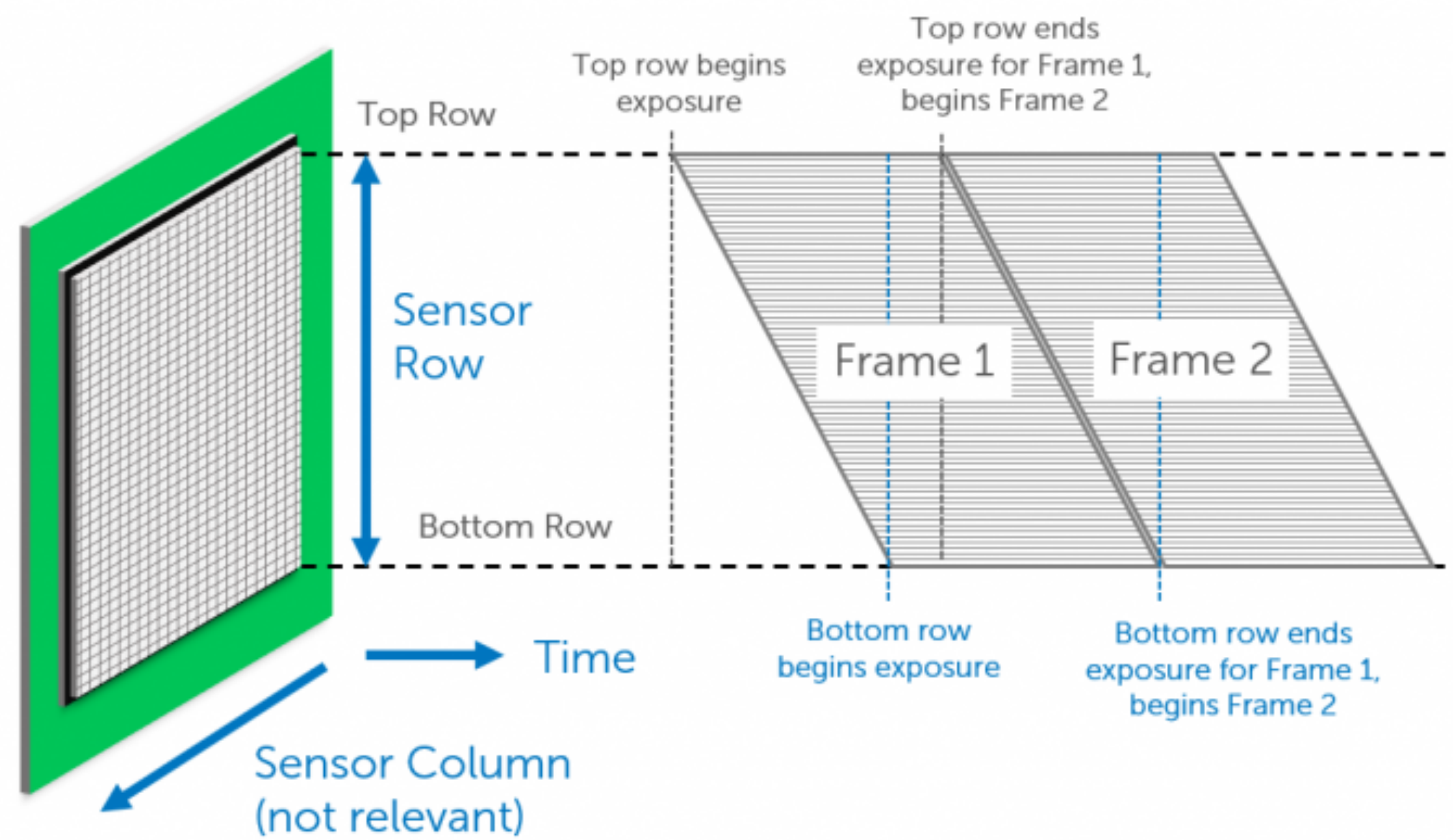
**Global Shutter**

**3D - Lidar**

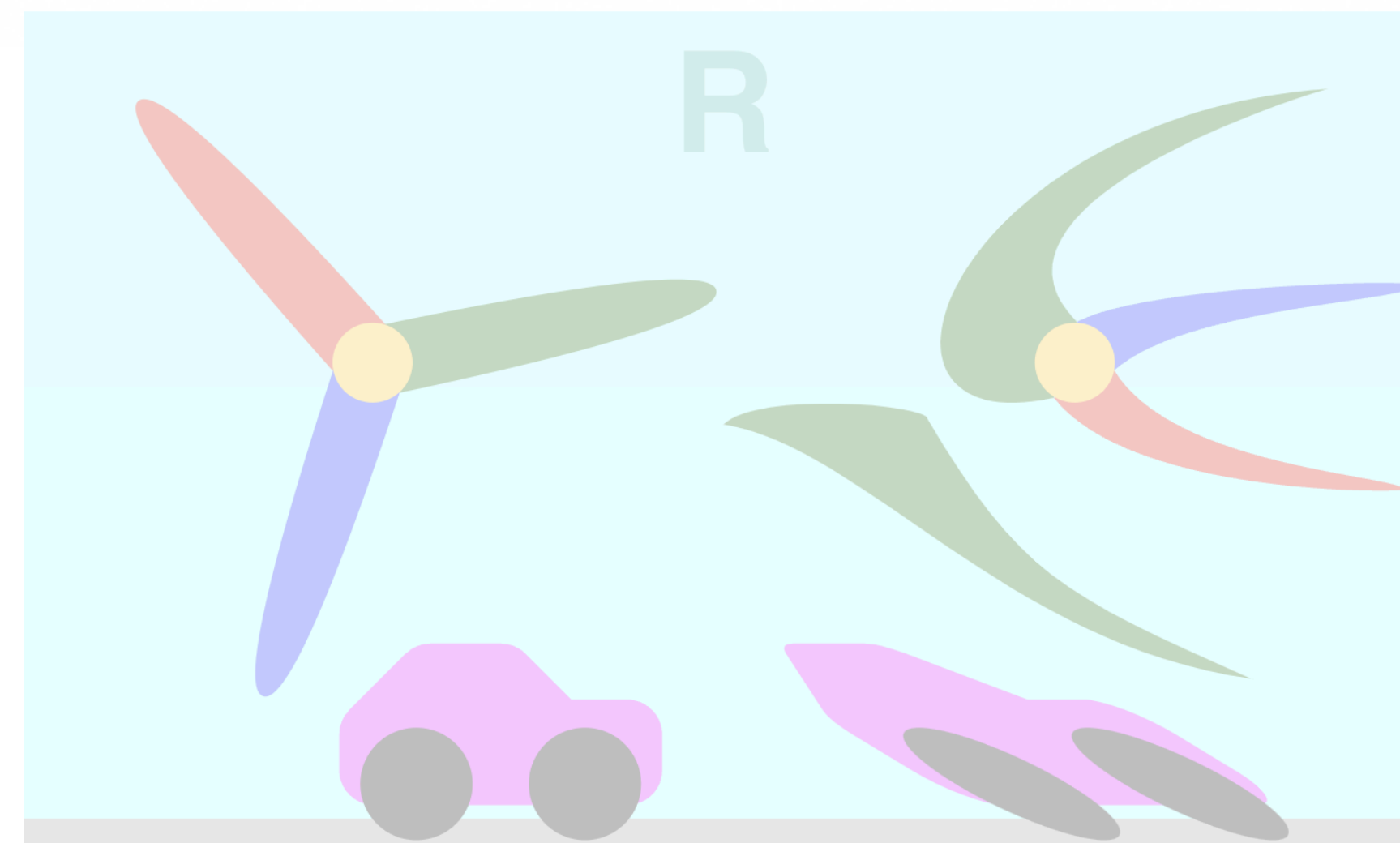
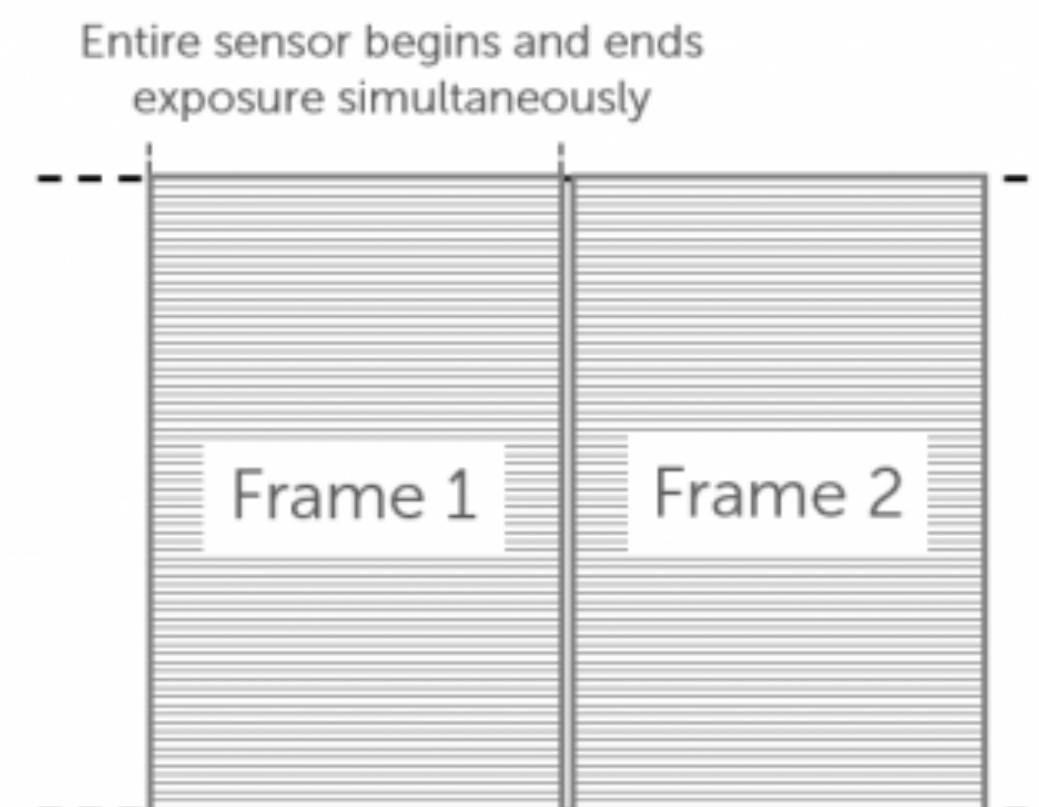




## A. Rolling Shutter



## B. Global Shutter







# SHINING 3D®





# Big Models

## Datasets

Public

**ImageNet**

14 Million pictures

Public

**COCO**

300k pictures

# Big Models

## Transfer Learning

Your dataset

Private

**Your specific need**

1000 pictures

+

Datasets

Public

**ImageNet**

14 Million pictures

Public

**COCO**

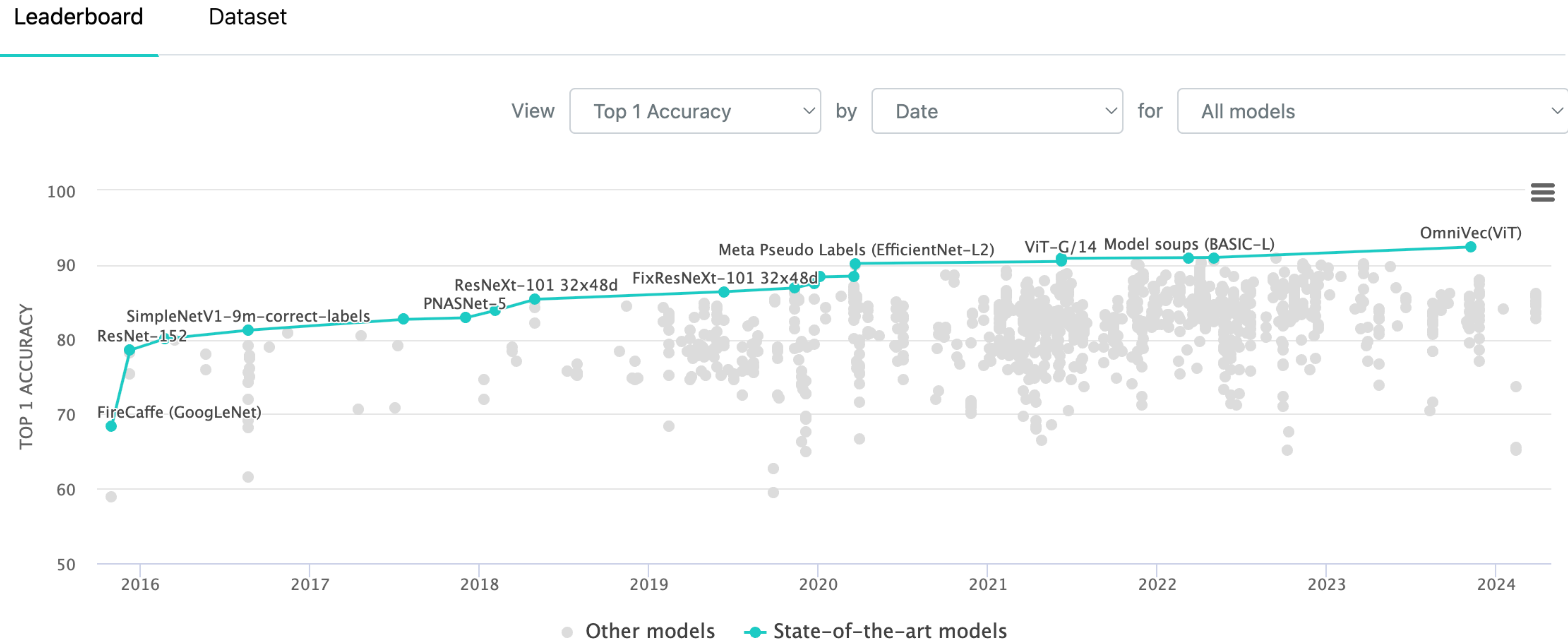
300k pictures





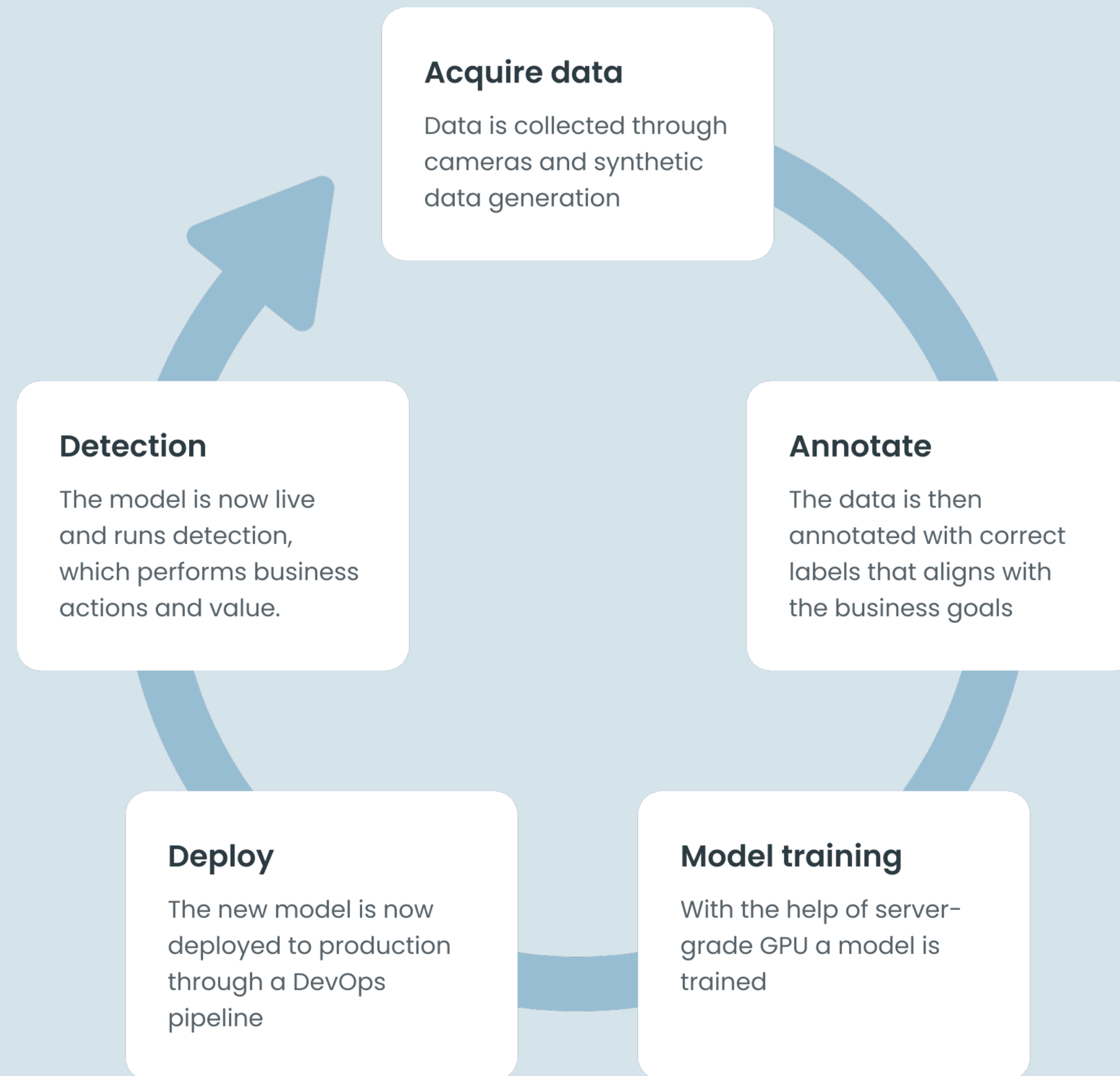


# Image Classification on ImageNet



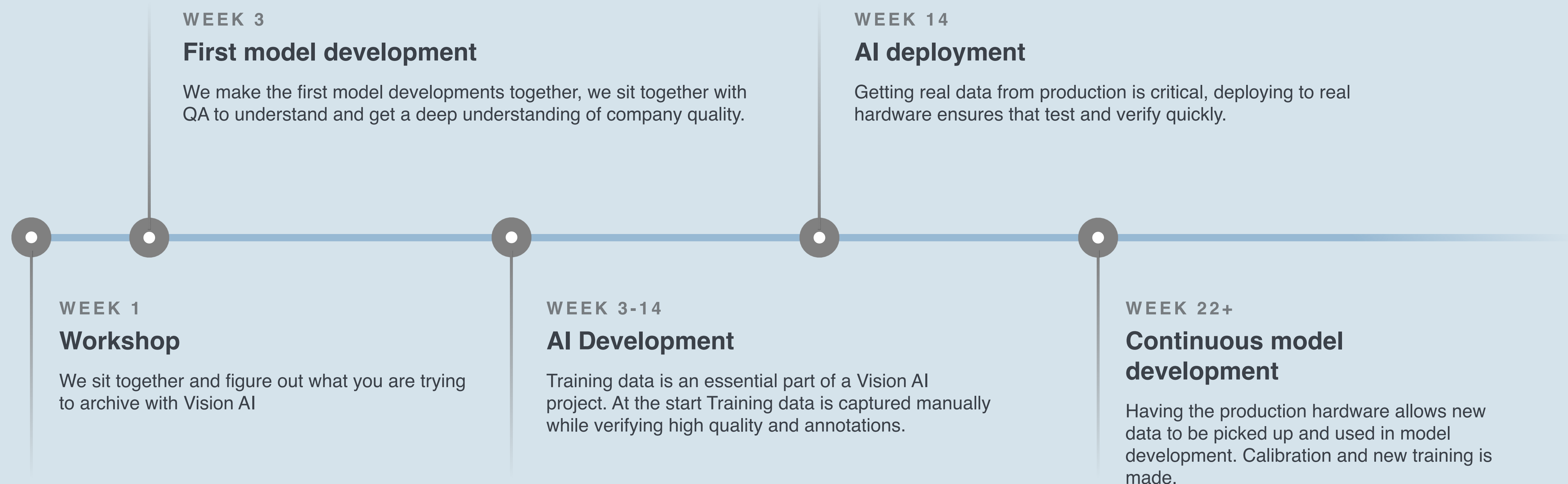


# Process

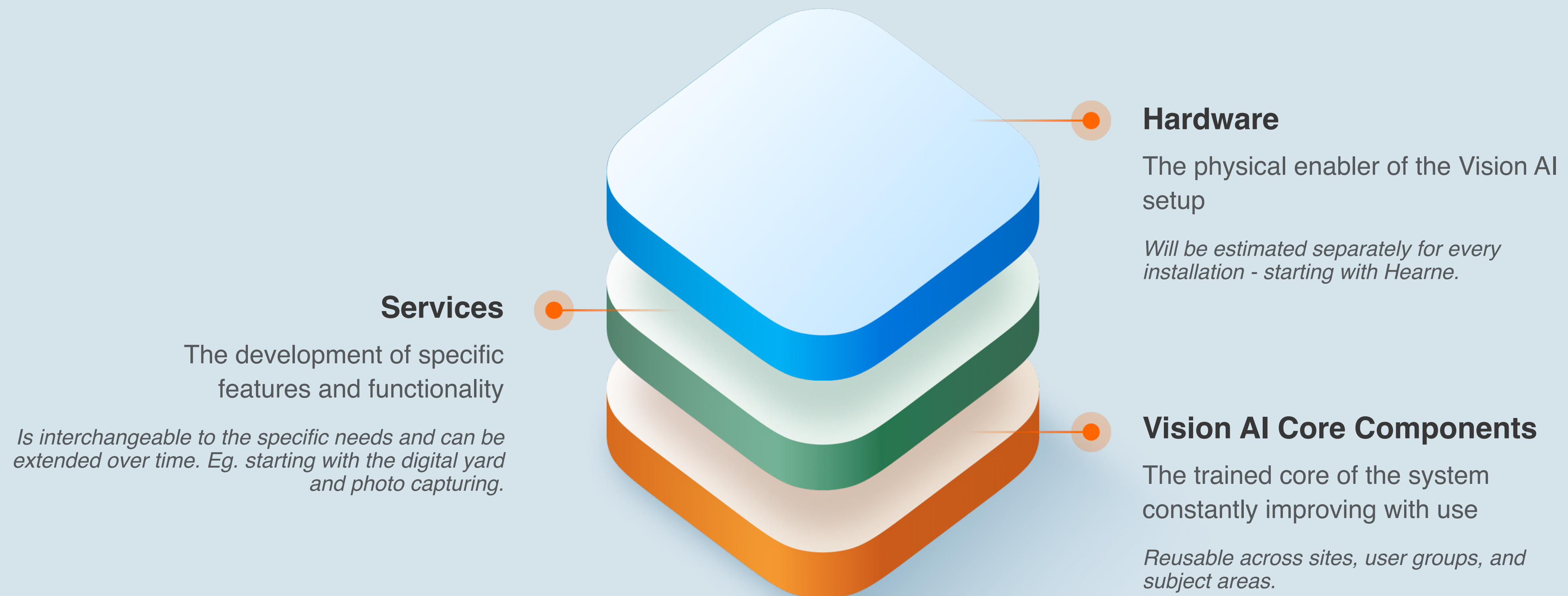




# Vision AI project timeline



# Vision AI implementation

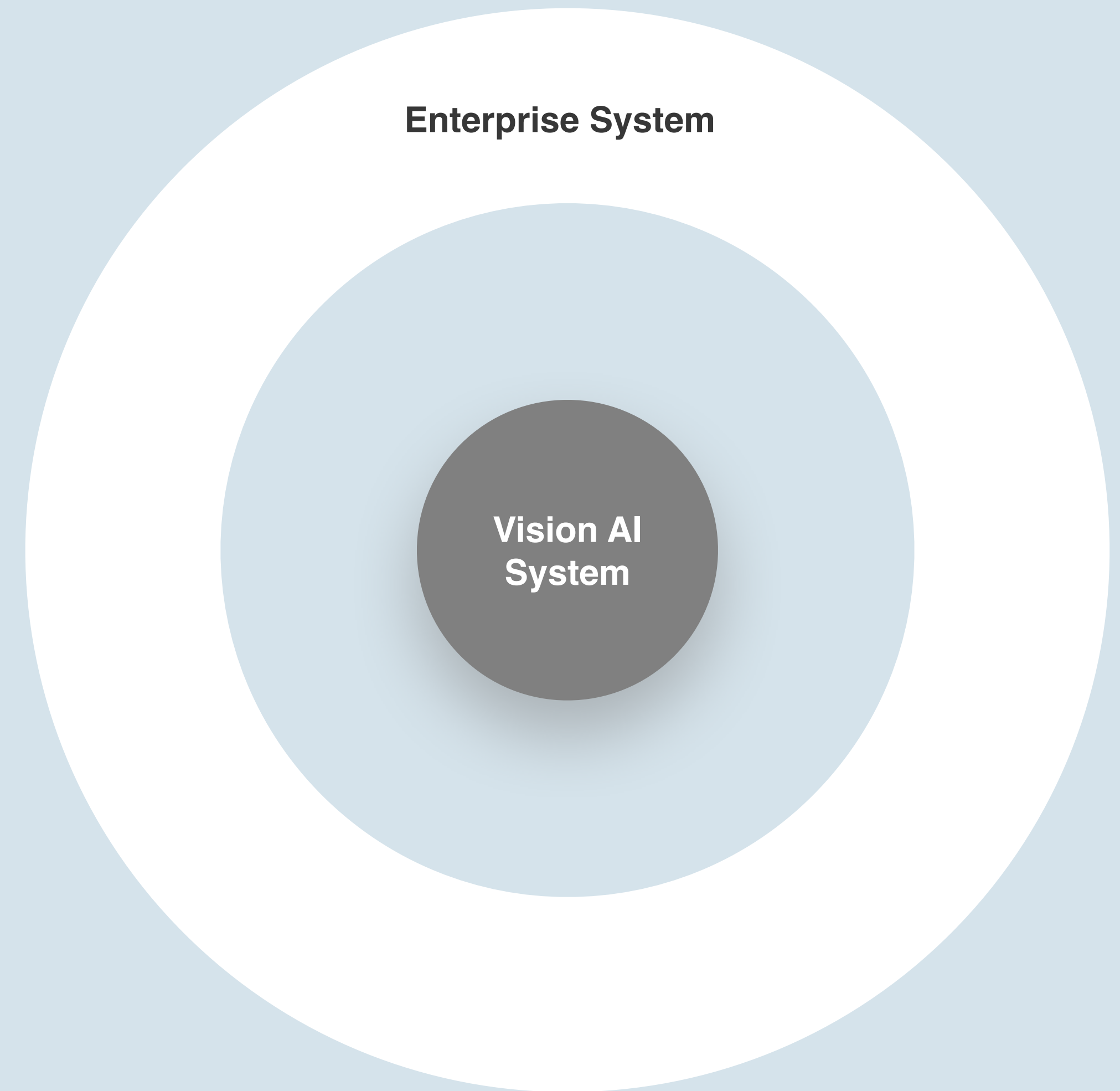




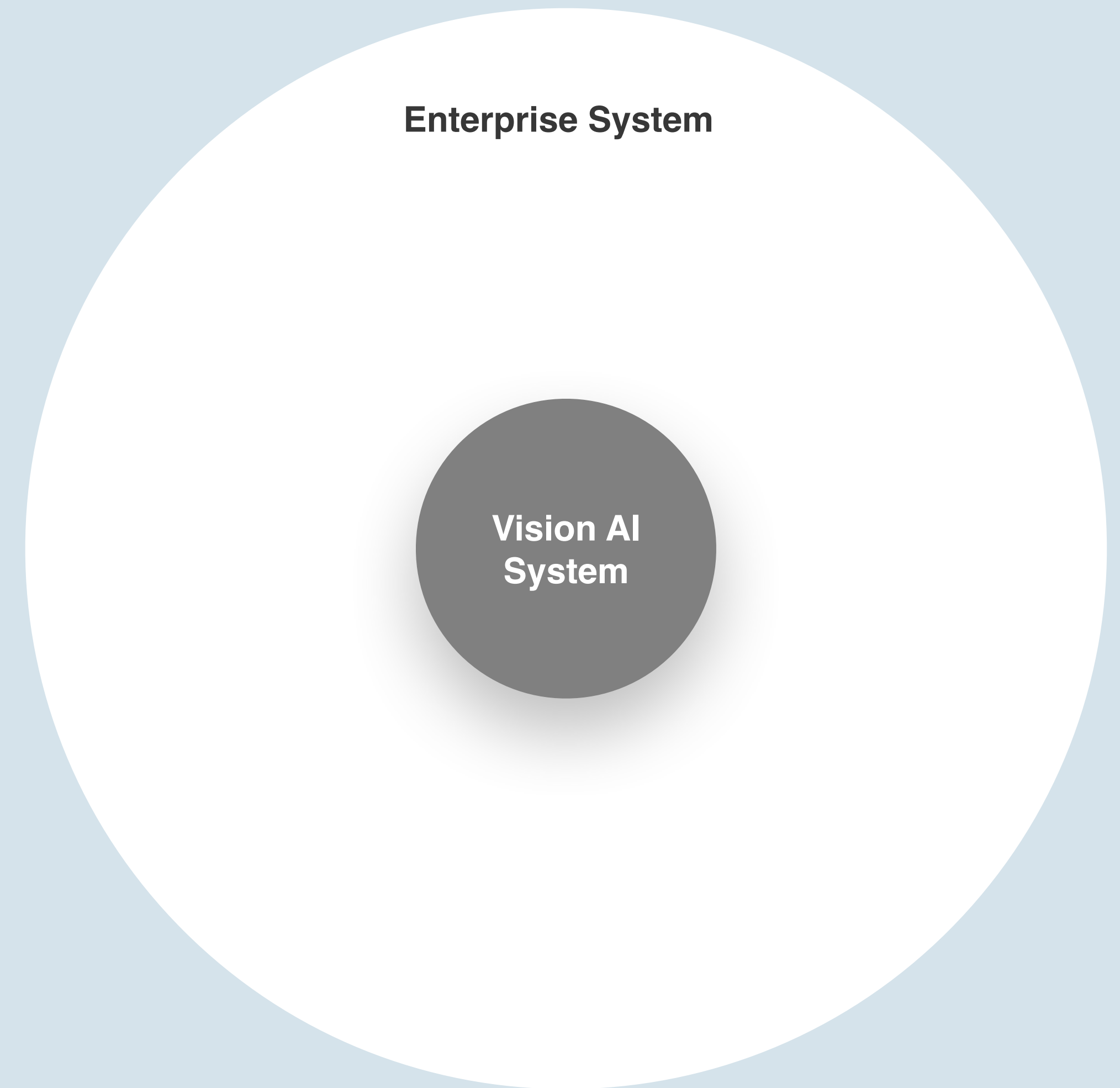
# Standalone Vision AI

≠

# Value



**Integrated Vision AI**  
**=**  
**Real business value**

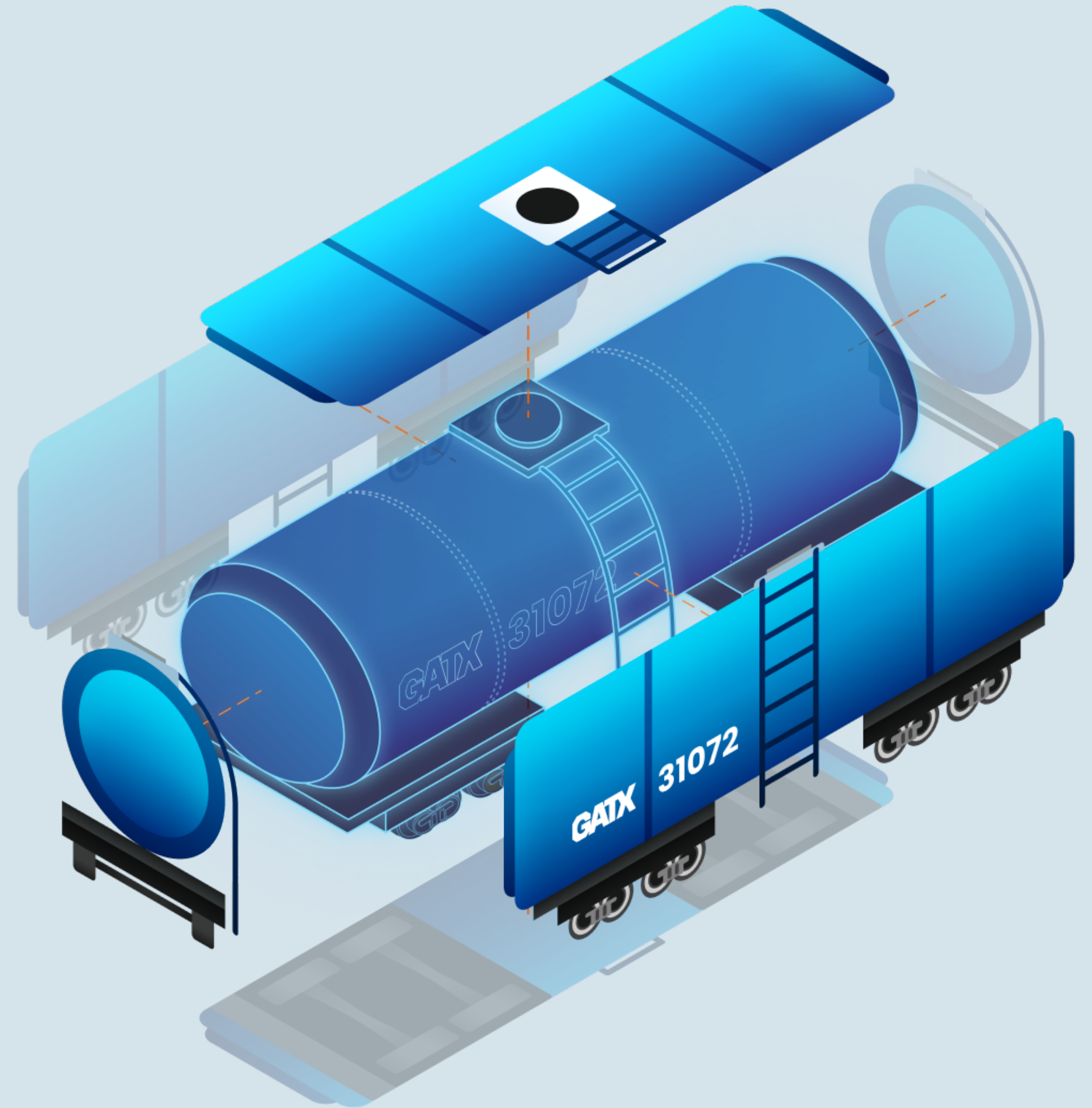




# **What is then possible?**



# Digital Twin



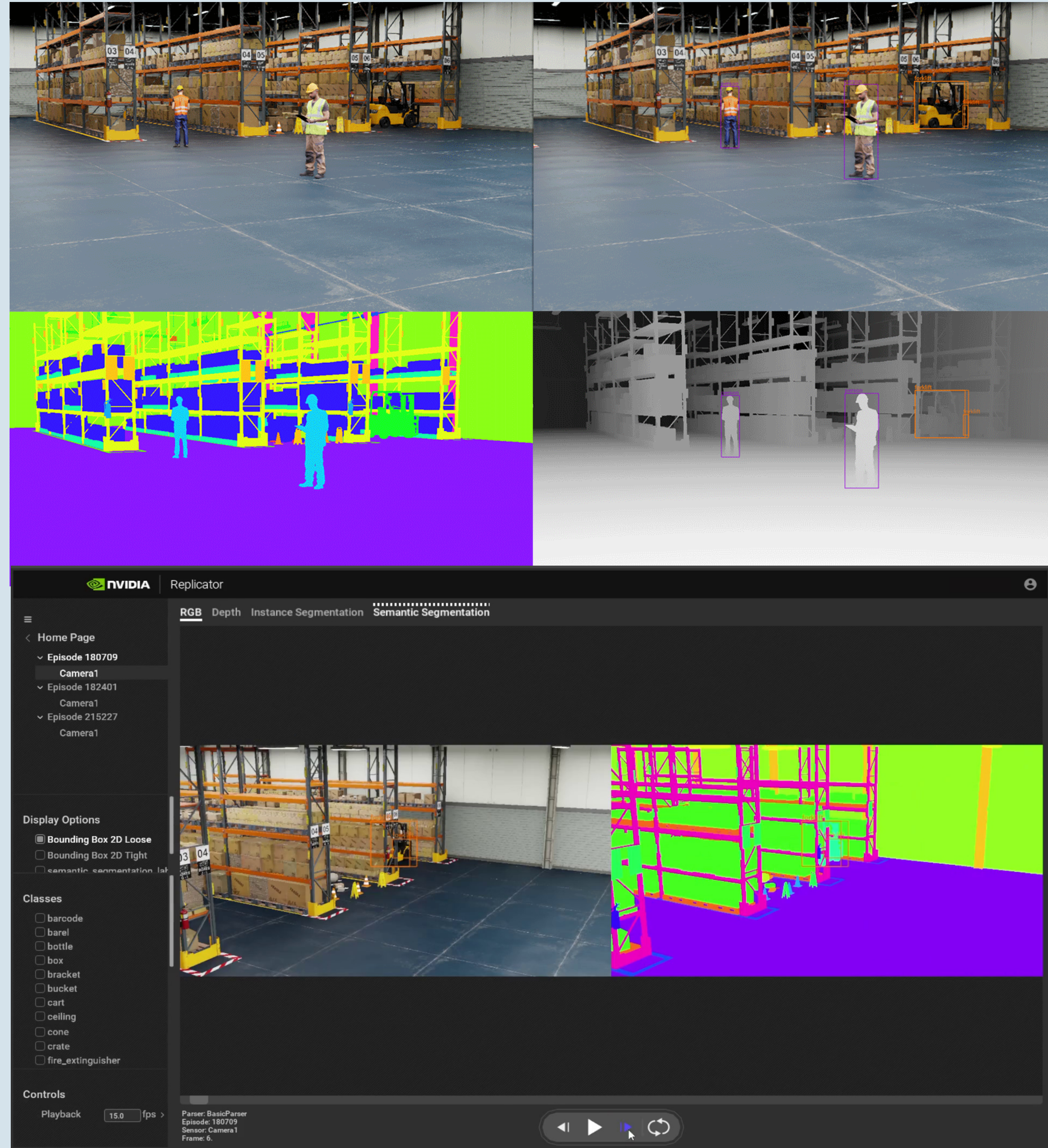


# Digital Twin

Allows training data and high precision insights into the business aspects.



**NVIDIA**  
**OMNIVERSE™**







A2

A2

A2

A2











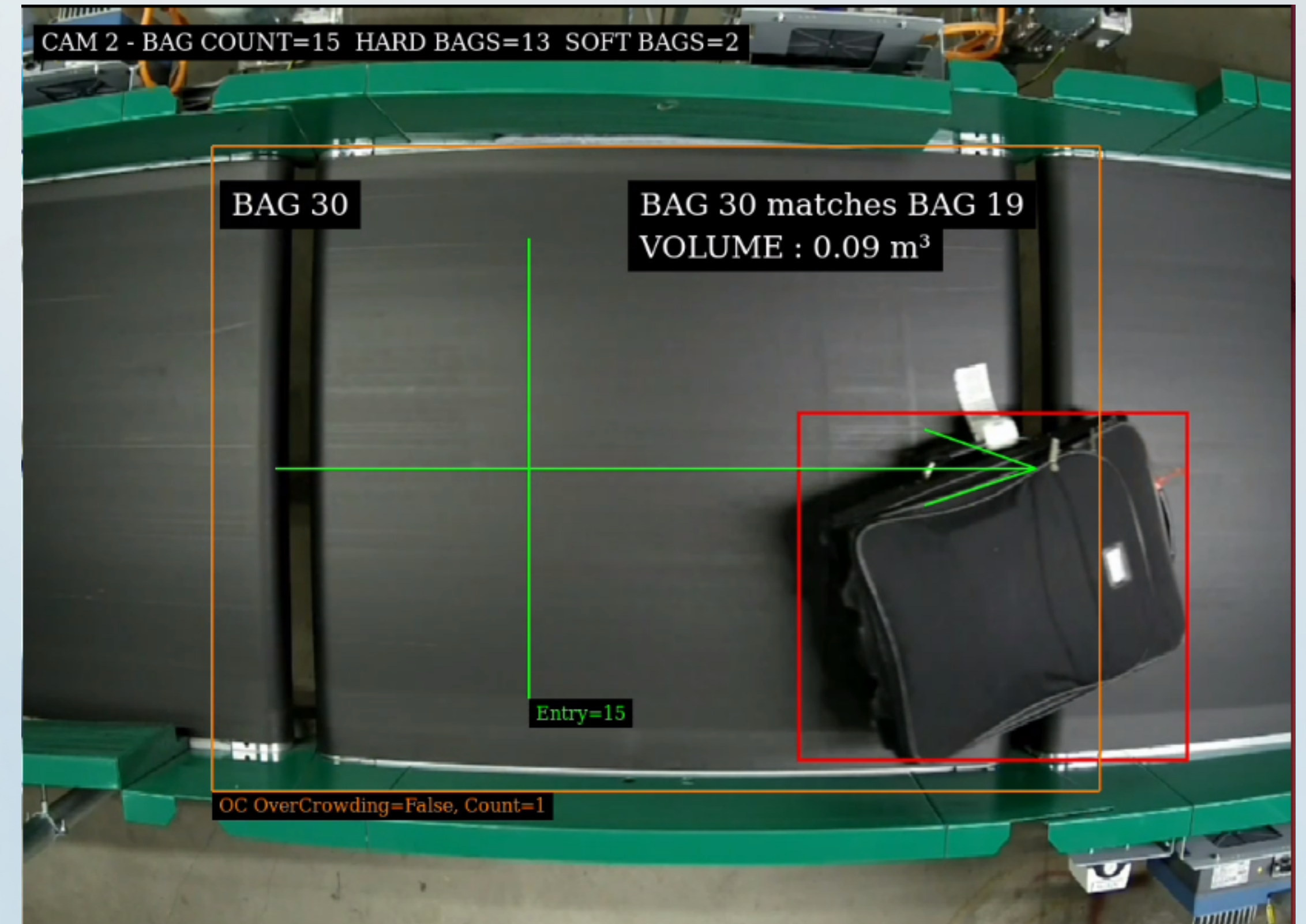
TRIFORK.



# Sorting bags faster

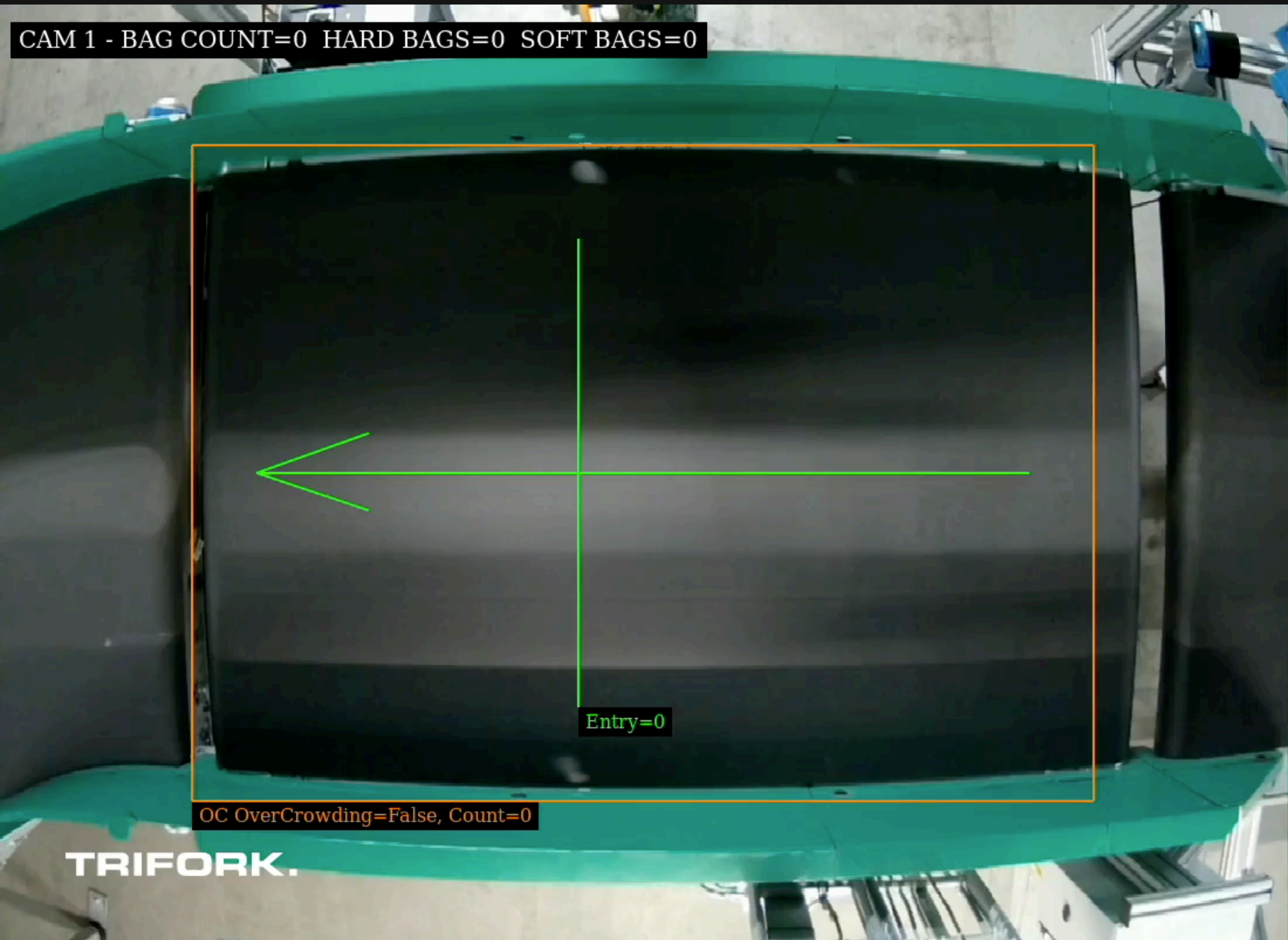
Processing facilities are physically constrained

- Scaling is difficult
- Tedious error correction
- Many bottlenecks

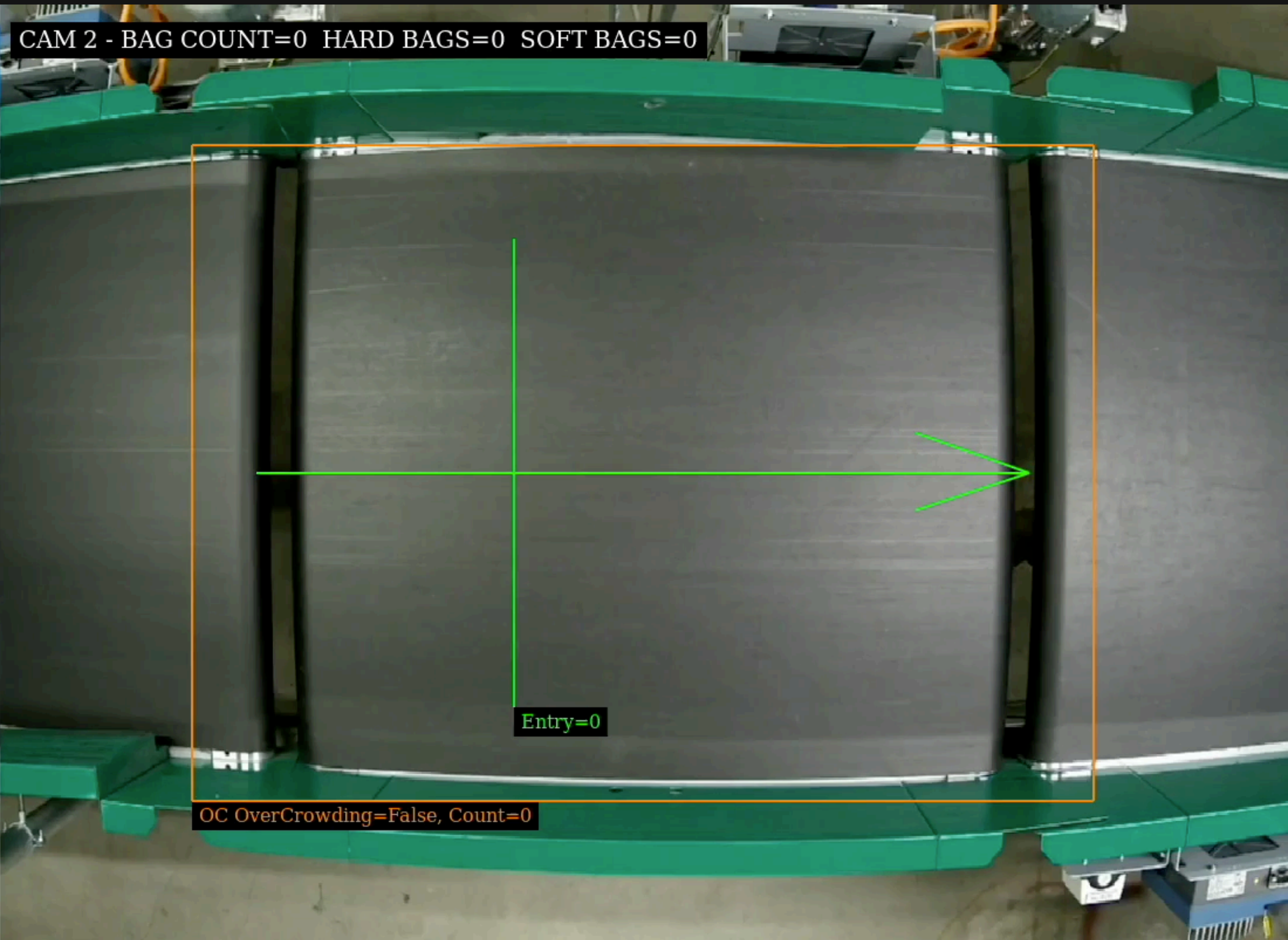




CAM 1 - BAG COUNT=0 HARD BAGS=0 SOFT BAGS=0



CAM 2 - BAG COUNT=0 HARD BAGS=0 SOFT BAGS=0





# **Benefit of Vision AI**

**Enhance human  
capability**

**Higher Quality**

**Faster decision**



# Thank You!

TRIFORK

Kevin Simper

[kesi@trifork.com](mailto:kesi@trifork.com)

+45 40 36 05 65





