

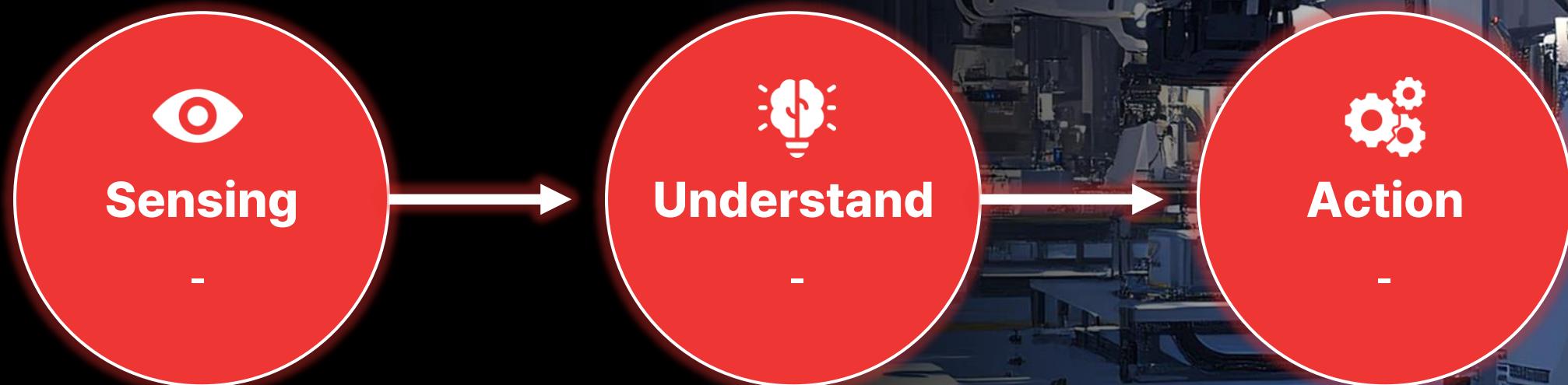
# Beyond Digital, Empowering Reality.

Powered by EVA, The Brain of Physical AI



# Physical AI

AI that **senses** and **understands** reality,  
directly acting upon the world



Evolved Vision Agent

**mellerikat** **EVA**

**An intelligent automation solution that  
understands and judges, extending all  
the way to on-site control**

More Precision

More Safety

More Convenience



# Key limitations of traditional AI CCTV systems



## Accuracy

Reliance on fixed object-detection algorithms, resulting in frequent false positives



## Detection Scenario

Limited to predefined scenarios, making it difficult to respond to diverse situations



## Scalability

Additional cameras require upgrade costs, and model deployment is difficult



## Ops Simplicity

Configuration and maintenance require specialized expertise



## Sustainability

Ongoing maintenance costs are incurred for continuous learning

## Problem

# Limitations of existing AI CCTV solutions

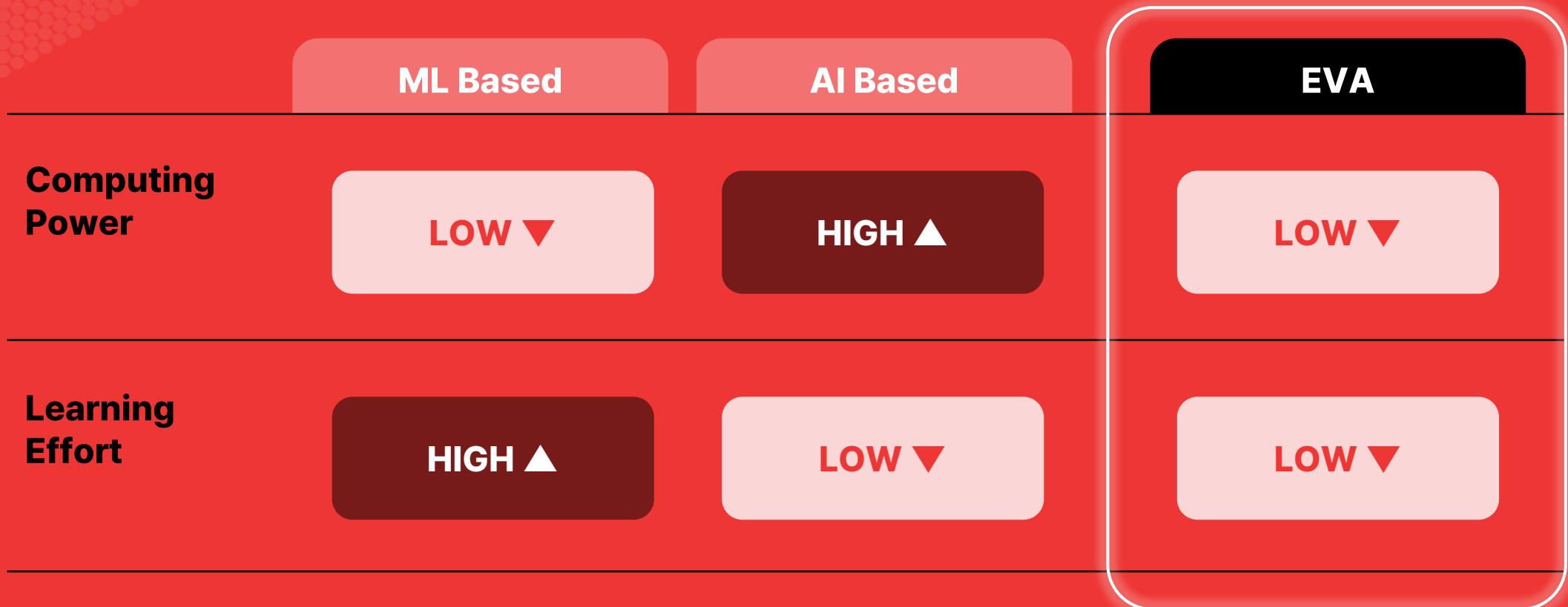


## On-device or server / VMS-integrated architectures

ML-based solutions require significant operational effort, while AI-based solutions impose a heavy burden in terms of compute infrastructure investment

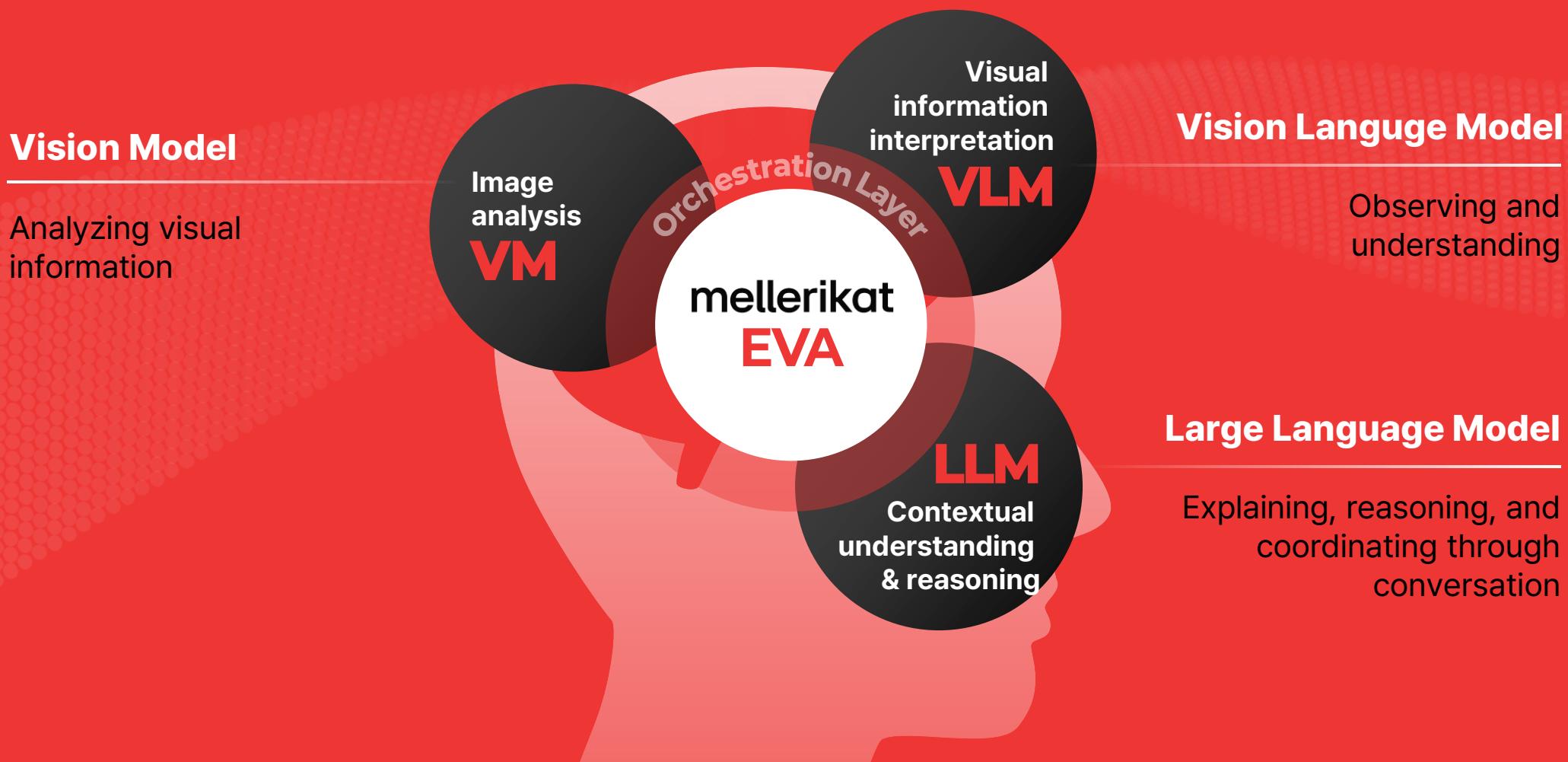
	ML Based	AI Based
Computing Power	LOW ▼	HIGH ▲
Learning Effort	HIGH ▲	LOW ▼

# EVA, combining the strengths of ML and AI

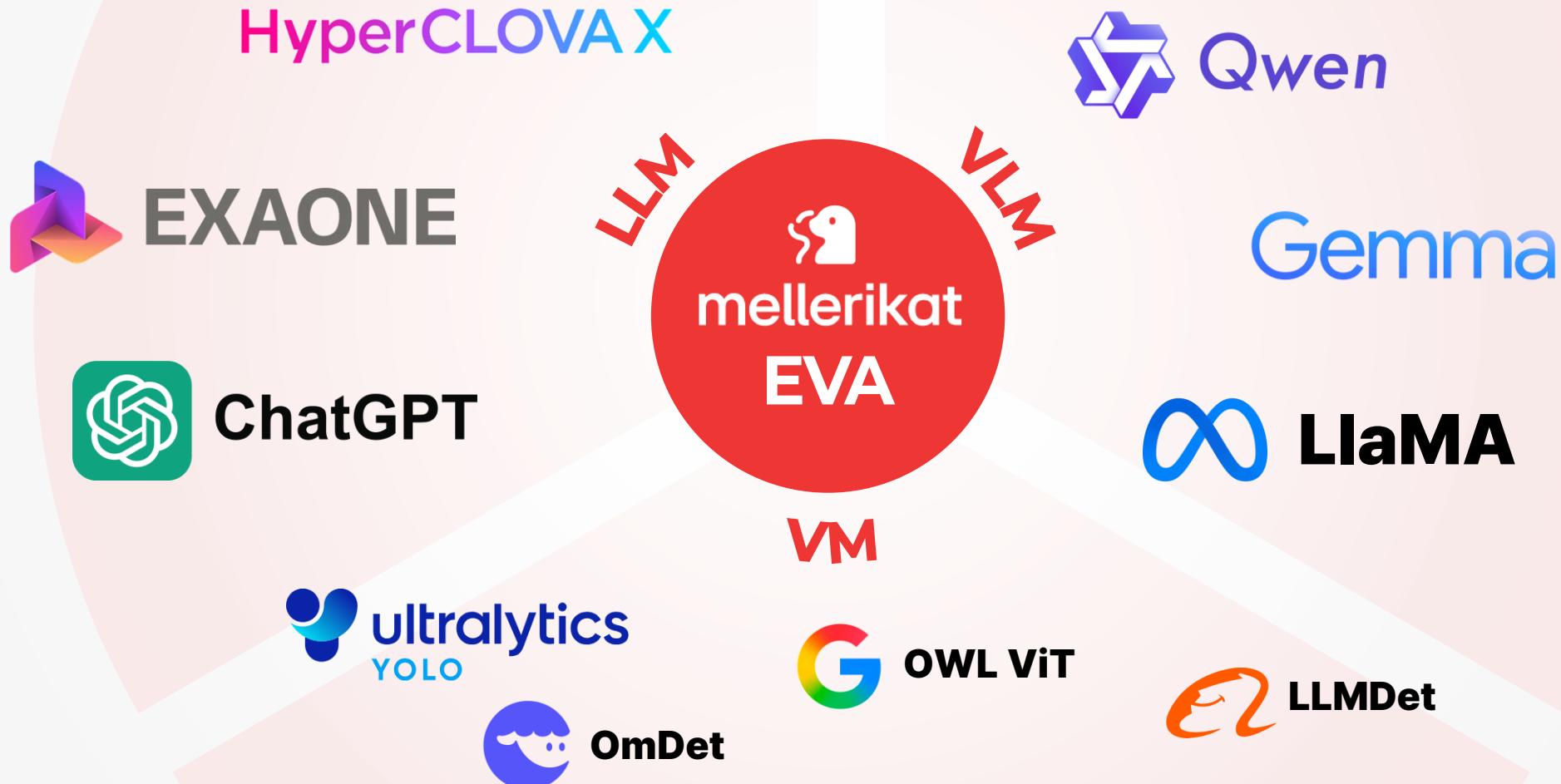


# An intelligent architecture based on Multi-Foundation Models

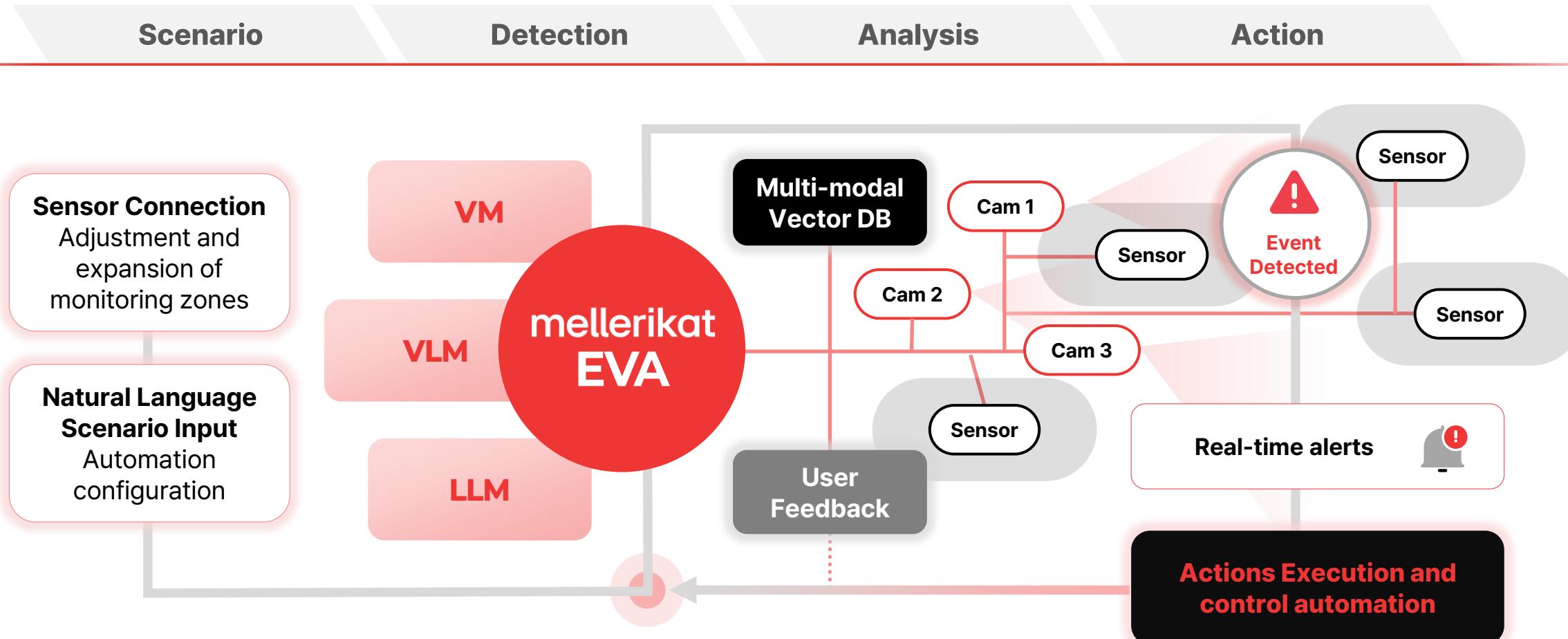
A multi-brain structure that integrates the latest models to interpret situations with high precision



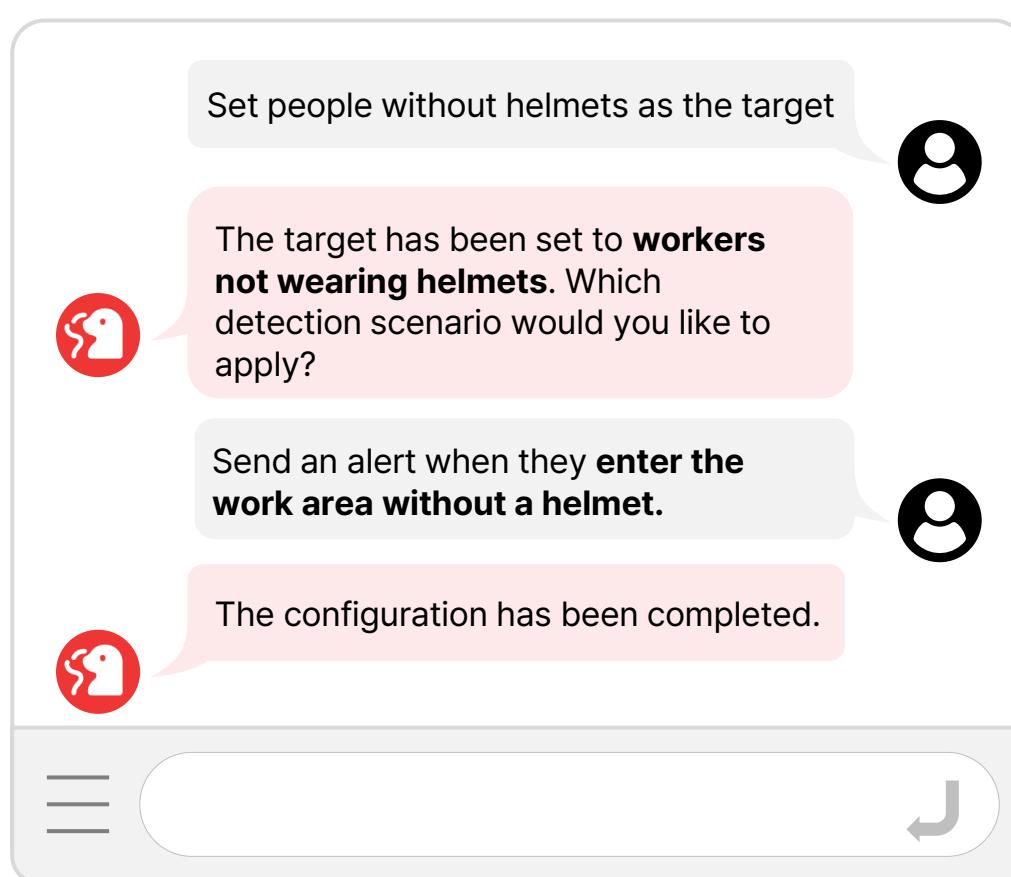
# Flexible selection and combination of an AI stack optimized for the customer's environment



# An intelligent loop of scenario-based Detection → Decision → Control, created through conversation



# No complex configuration required! A user-friendly UI/UX that understands and adapts through conversation

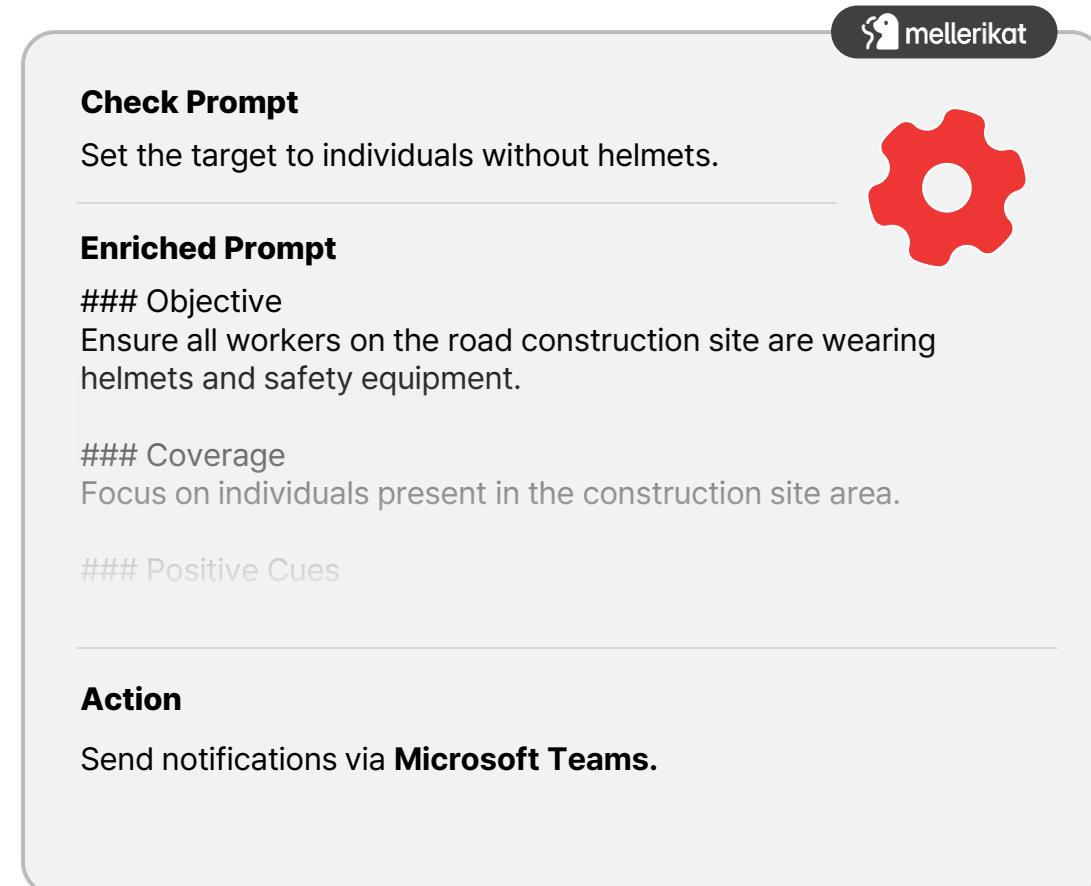


Set people without helmets as the target

The target has been set to **workers not wearing helmets**. Which detection scenario would you like to apply?

Send an alert when they **enter the work area without a helmet**.

The configuration has been completed.



**Check Prompt**  
Set the target to individuals without helmets.

**Enriched Prompt**

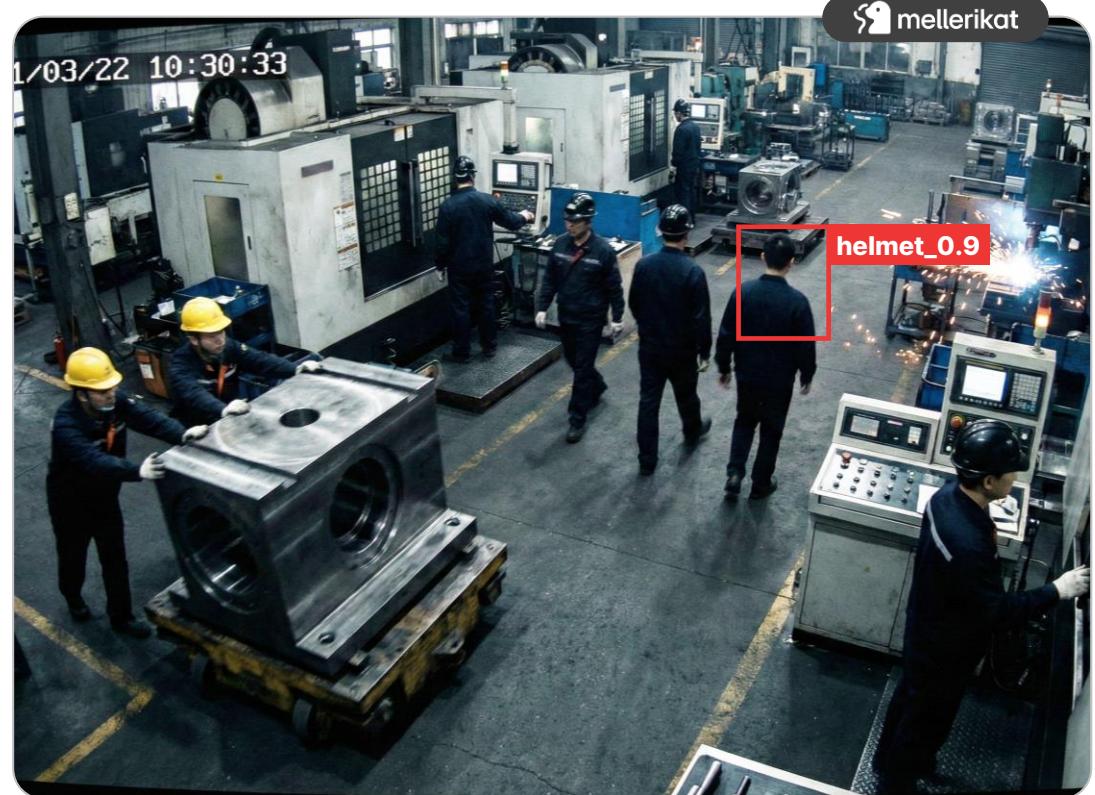
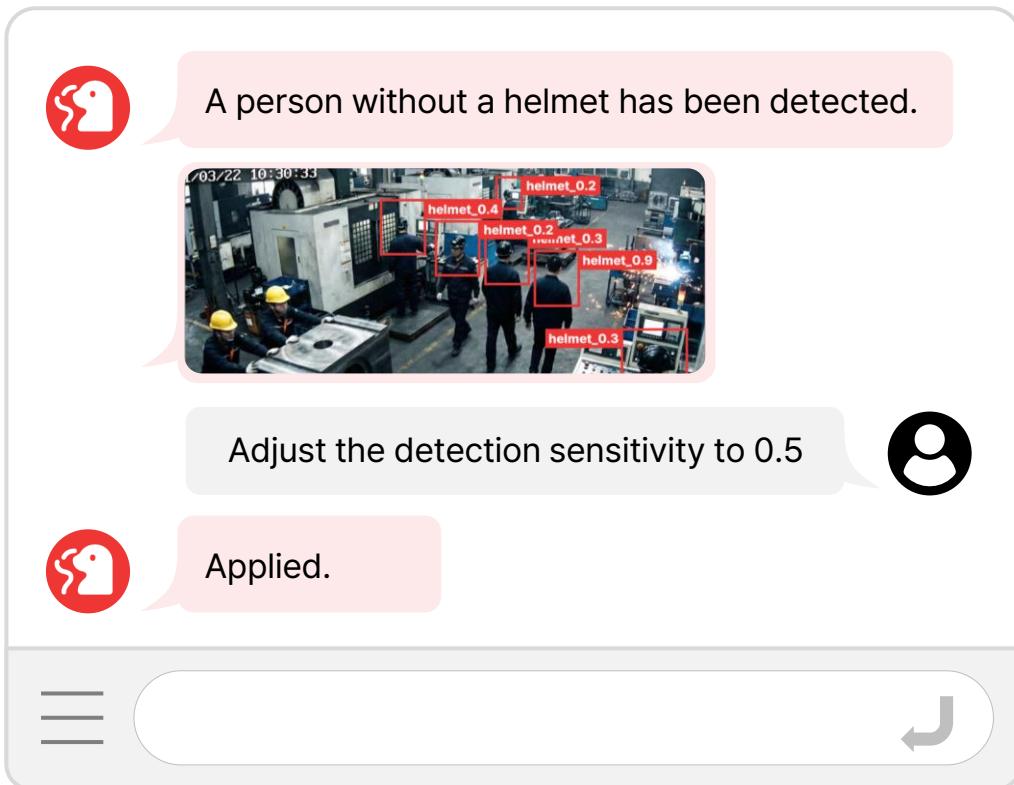
### Objective  
Ensure all workers on the road construction site are wearing helmets and safety equipment.

### Coverage  
Focus on individuals present in the construction site area.

### Positive Cues

**Action**  
Send notifications via **Microsoft Teams**.

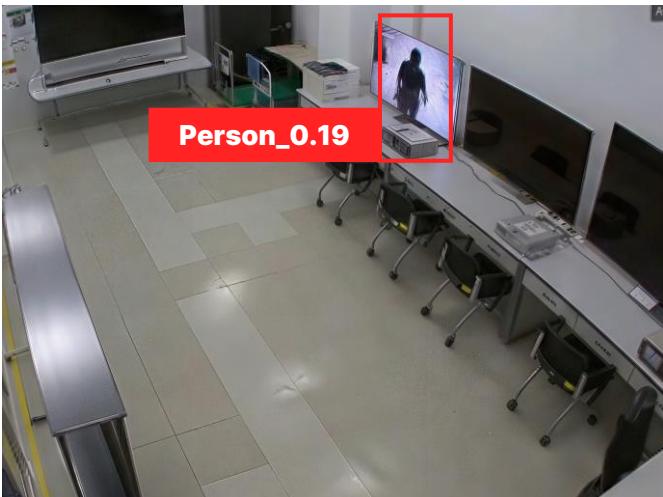
# Detection scenarios can be improved through conversation without complex configuration



This configuration is for illustrative purposes to aid understanding and may differ from the actual UI/UX

# EVA improves and optimizes in real time through user feedback

## Before user feedback



**A person has been detected.**  
One person appears to be lying  
on the ground

## User feedback applied

### User Feedback



**Did EVA make an incorrect  
detection?"**

Have you identified a false positive?  
Please click the checkbox below.



**Yes, this was incorrect**

**[Optional]** Could you provide more details  
about the incorrect detection? This will be  
reflected in future detections.

**Submit**

## Detection after feedback



Check for any anomalies  
based on the current criteria

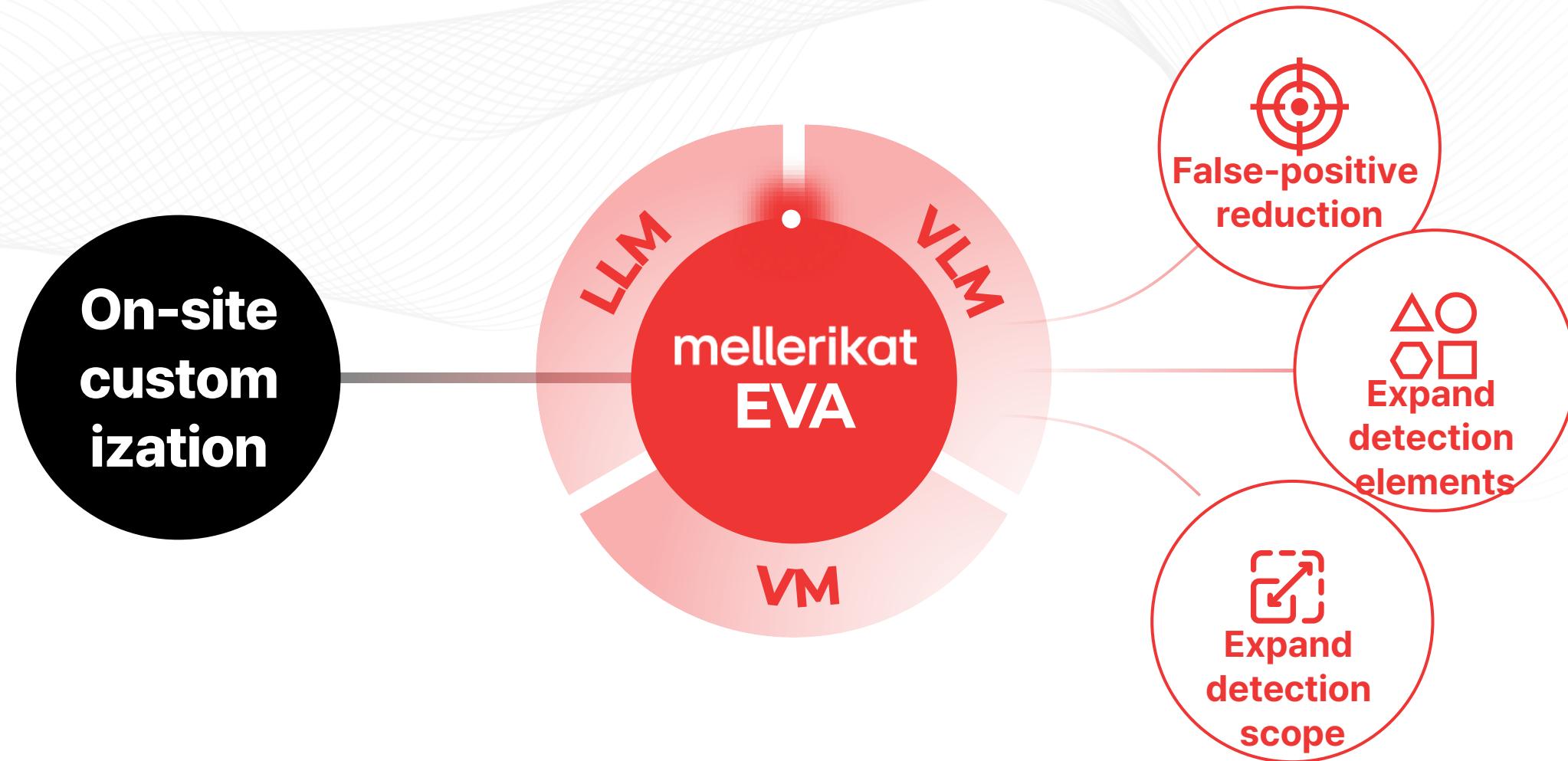


**No detection targets at this time.**  
If any anomalies are detected, an  
alert will be sent.



AIOps optimization

# A self-evolving AIOps platform based on RAG

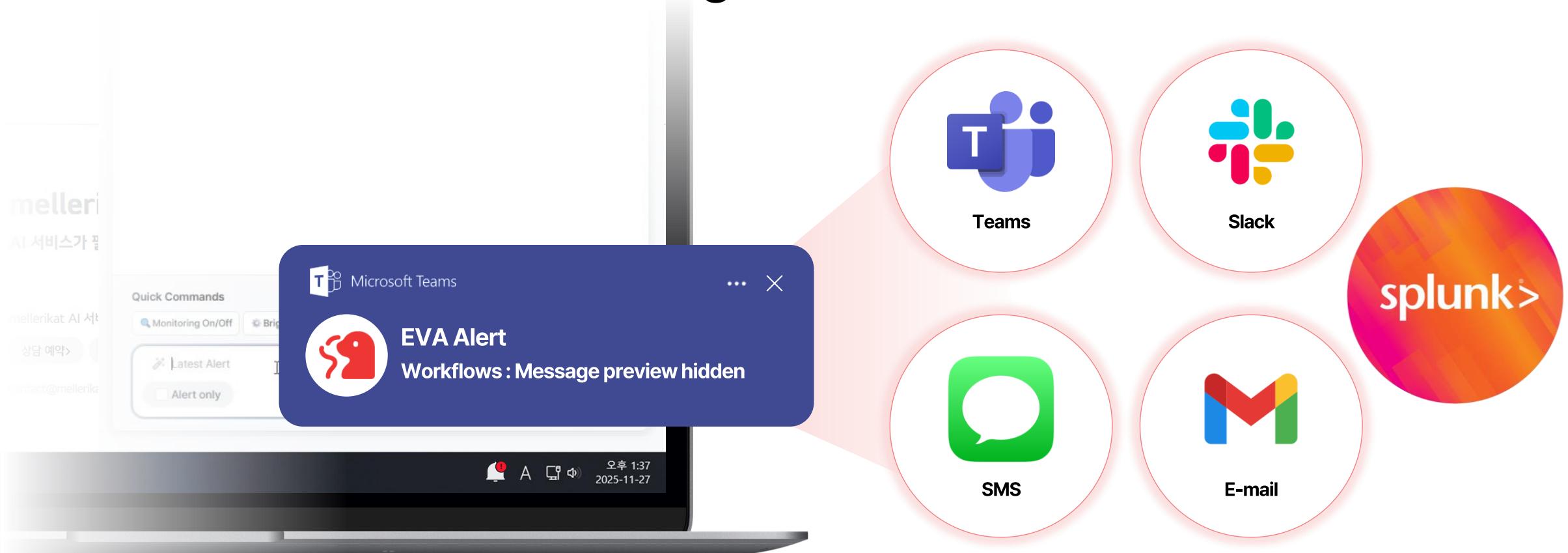


# Detection scenarios enhanced through natural language conversational feedback

	Step 1 (Initial setup)	Step 2 (Scenario Refinement)	Step 3 (Augmented Detection Scenario)	
			Current Case	Detection Steps
<b>Use Case 01</b> <b>Person detection within a facility</b>	<ul style="list-style-type: none"> <li>Notify me if a person has fallen.</li> </ul>	<ul style="list-style-type: none"> <li>Exclude people who are sitting on a chair or standing and notify me only if a person is lying on the floor.</li> </ul>	<b>Current Case</b> Detects individuals lying on the ground <b>Exceptions</b> <ul style="list-style-type: none"> <li>Cases where the person is sitting in a chair or standing.</li> <li>Cases where the collapsed person's body is difficult to identify (e.g., body is obstructed).</li> <li>Cases where the physical form is difficult to verify (e.g., only a silhouette is visible, or less than 50% of the body—such as just a shoe—is in view).</li> <li>Cases where the person is not in danger (e.g., lying down while looking at a phone or resting on a desk).</li> </ul>	<ul style="list-style-type: none"> <li>A person is present; at least one individual is collapsed on the floor.</li> </ul>
<b>Use Case 02</b> <b>Mask-wearing compliance in the workplace</b>	<ul style="list-style-type: none"> <li>Notify me if someone is not wearing a mask</li> </ul>	<ul style="list-style-type: none"> <li>Exclude people who are standing, and among those sitting on chairs, notify me only if they are performing soldering work and are not wearing a mask.</li> <li>Also exclude people who are sitting and using a laptop or a mobile phone.</li> </ul>	<b>Current Case</b> Detects individuals who are soldering while seated in a chair without wearing a mask. <b>Detection Steps</b> <ul style="list-style-type: none"> <li>A person is seated and working.</li> <li>No visible mask is detected on the worker's face.</li> <li>The worker is actively performing soldering tasks.</li> </ul> <b>Exceptions</b> <ul style="list-style-type: none"> <li>Cases where it is difficult to verify mask-wearing status (e.g., the worker's face is obstructed).</li> </ul>	

Seamless work environment

# Alerts and actions can be executed directly within the user's existing work environment



This configuration is for illustrative purposes to aid understanding and may differ from the actual UI/UX

# High On-Site Satisfaction! EVA Satisfies Cost, Performance, and Convenience

## Safety & Manager

Feedback after  
implementing EVA



- Monitoring a large number of CCTV feeds made real-time accident surveillance and prevention difficult.
- After adopting EVA, real-time response and pre-accident prevention have become possible.
- Managers can now reduce the time spent on constant monitoring and focus more on core safety tasks.

- We were looking for a solution that works in a real-world environment rather than just in theory, and we are extremely satisfied after implementing EVA.
- Even without deep domain knowledge in AI, this solution allows anyone to receive site alerts and take immediate action.
- While previous vision solutions were limited to simple movements, we can now reflect specific on-site needs into the system immediately.
- Rule-based solutions were difficult to improve, but EVA offers high reliability because it continuously improves by learning from "NG" (No-Good/Error) data.

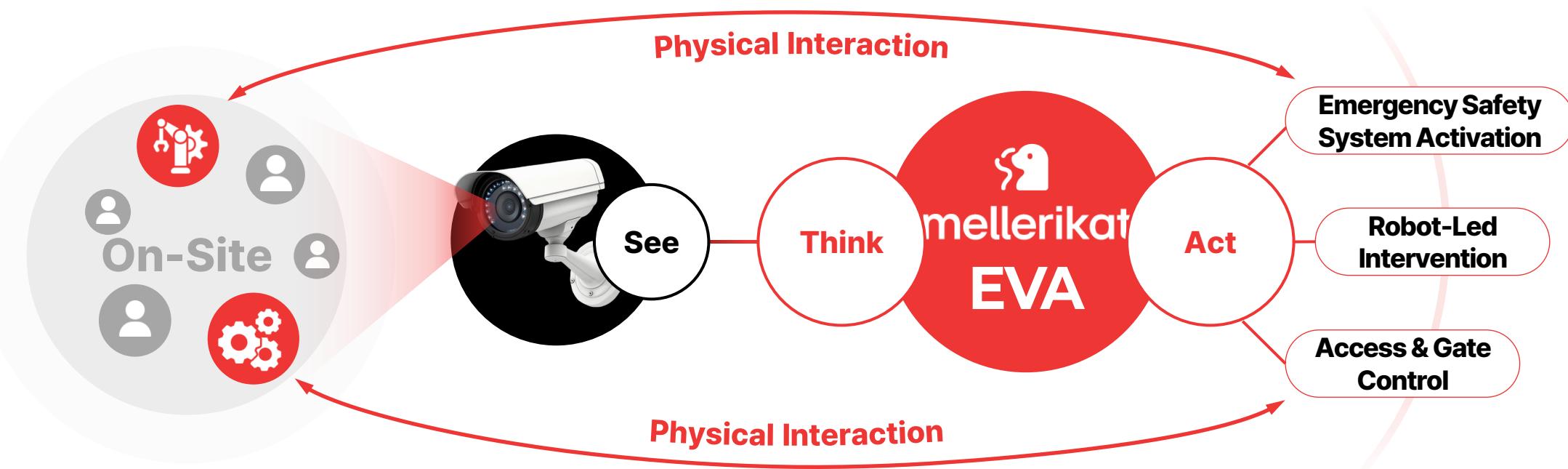
## Process Manager

Feedback after  
implementing EVA



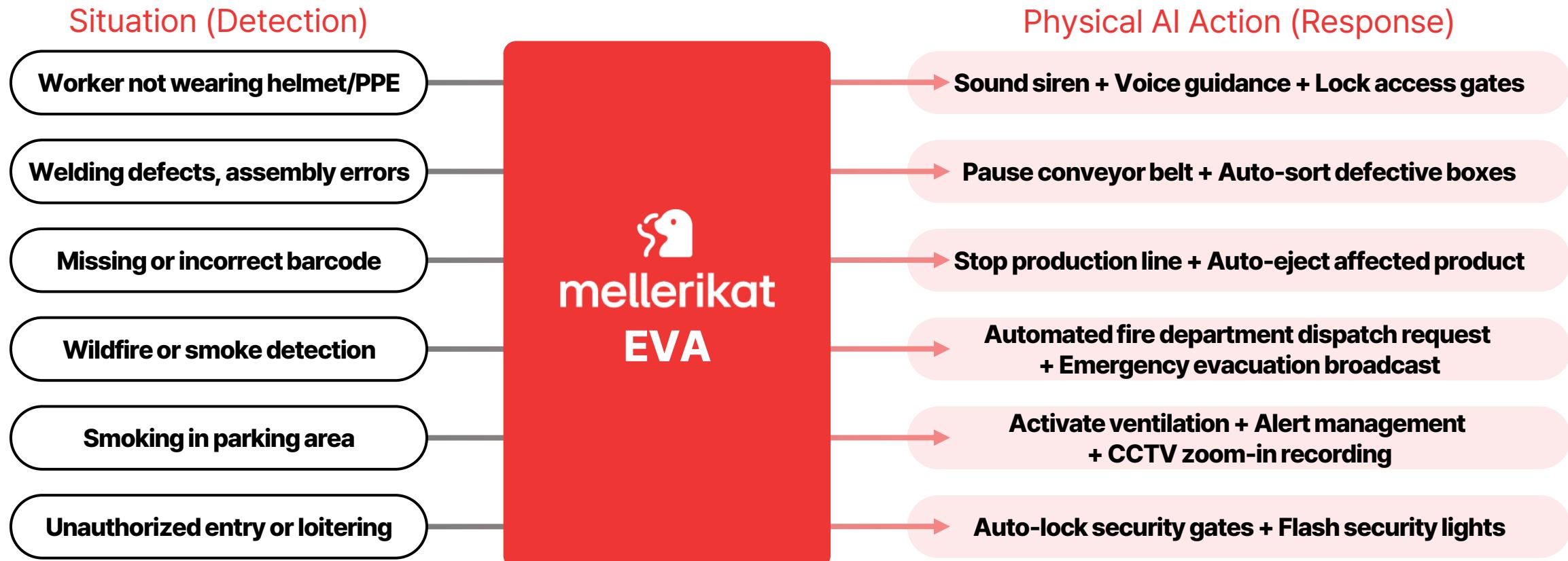
# The Physical AI Platform: Controlling the Site Beyond Detection

The Completion of a Full Intelligent Loop



# Physical AI Actions Powered by EVA

Ensuring 365 days of uninterrupted safety, disaster protection, and defect control.





**EVA understands the physical world and  
drives real actions**

Industries can now move beyond detection  
toward true autonomous action.

# **Beyond Digital, Empowering Reality**

**Powered by EVA**