

NVA (Nota Vision Agent)

Nota Vision Agent

Industrial Safety : PPE & Coworking

Monitor safety compliance, such as wearing PPE or collaboration rules



Industrial Safety : Forklift Collision Risk

Monitor the risk of collisions or accidents in the workplace



Smart City Surveillance

Detect public order issues or illegal dumping



Smart Building Security

Detect security or safety issues in the building



ITS : Traffic Analysis

Discover a traffic accident in real time



Retail Security

Detect security or safety issues in the store



NVA (Nota Vision Agent): A Generative AI-Powered Vision Agent

NVA (Nota Vision Agent) is a Vision-Language Model (VLM)-powered surveillance solution that autonomously perceives and understands on-site situations.

It instantly detects and analyzes potential hazards from real-time video streams, dramatically enhancing safety management efficiency across industries.

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Key Features



Real-time Monitoring with Instant [Alerts](#)

- Accurately detects critical events from vast image and video datasets
- Delivers instant alerts to enable swift responses to hazards and prevent accidents
- Customizable alert thresholds to meet specific operational needs



Event Summaries and [Analytical Reports](#)

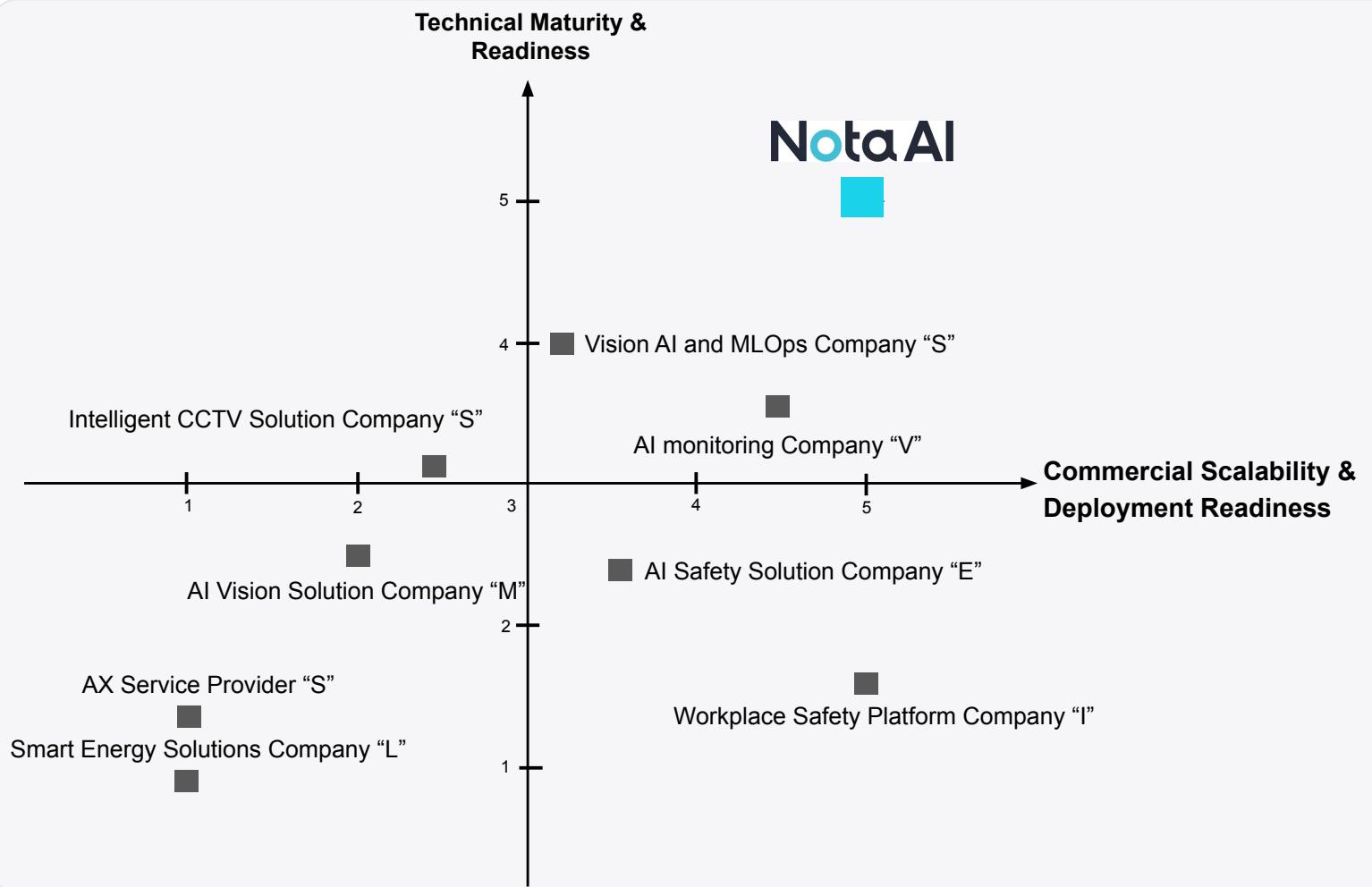
- Automatically generates analytical reports by identifying and assessing event occurrences
- Provides detailed insights into key indicators and trends based on monthly or weekly event data



Natural Language [Q&A](#) and [Video Search](#)

- Analyzes large-scale visual data—from historical archives to real-time streams—to provide precise answers to user queries in natural language
- Understands contextual relationships in complex scenarios, such as sequential condition violations, enabling logical reasoning and informed decision-making

Competitive Advantage



Multi-Model Vision AI Expertise

Ability to develop and deploy vision AI models—including VLM and CV—in the most effective combination for each scenario.

Edge Deployment Capability

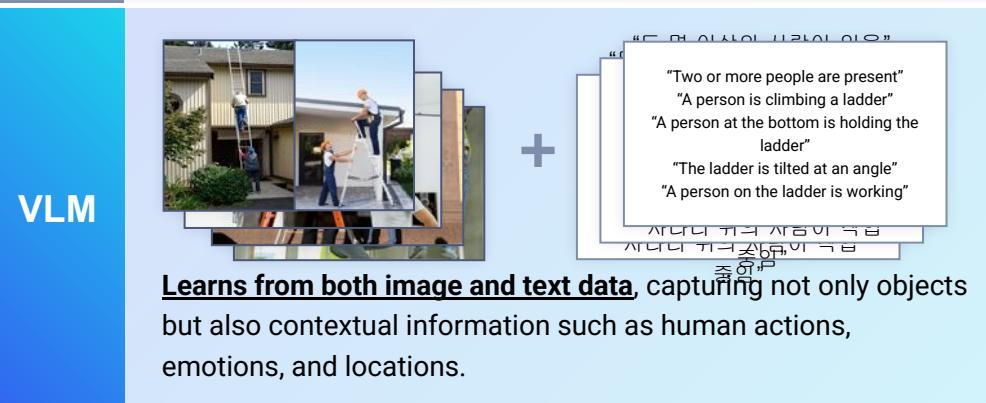
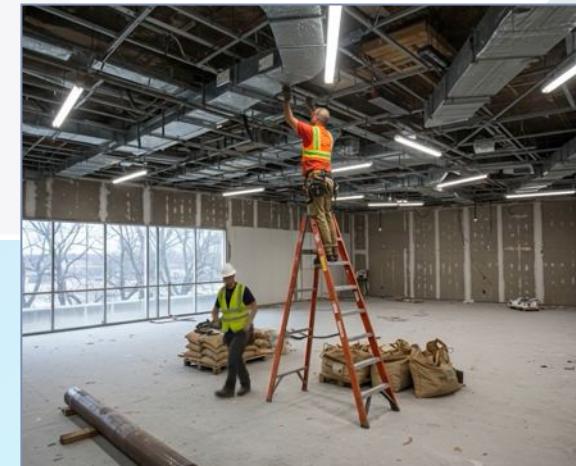
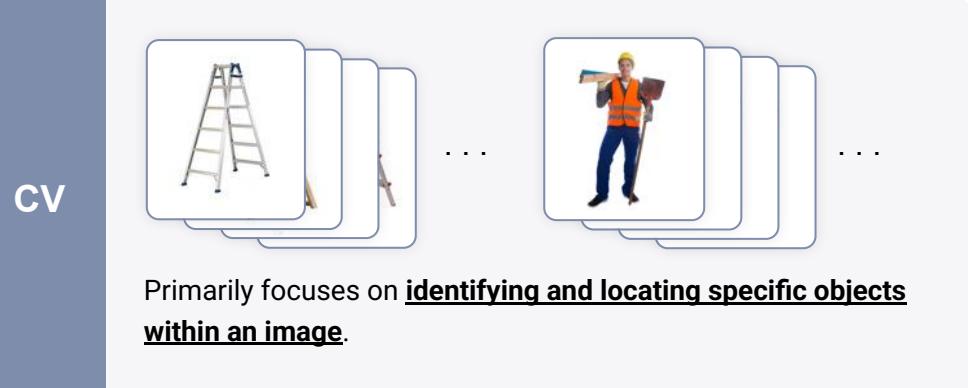
Designed to operate reliably within constrained hardware and network environments, powered by proprietary AI compression and optimization technologies.

Proven End-to-End Delivery Experience

Validated through commercial deployments, scaling from PoC to full production systems.

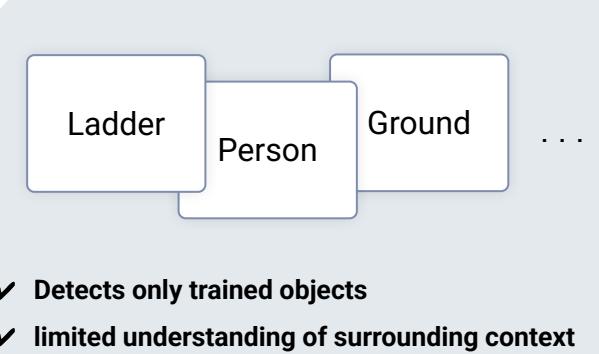
Technical Capabilities | Differences Between CV and VLMs

Qualitative Differences in Training Data



Example Input Image

Detection Results



The worker below has turned away from the ladder and stepped away, leaving the worker above working alone at height – **a violation of safety regulations**

- ✓ Goes beyond simple object recognition to understand and describe the full meaning and context of an image

Technical Capabilities | Scenario-Based Model Application

#1

Well-defined object detection



- Detecting hazardous elements with distinct characteristic in specific areas
 - E.g. detecting localized flames within a specific area

Both CV and VLM appropriate

#2

Requiring value judgement



- Analyzing and predicting potential damage levels or spread areas based on current condition
 - E.g. severity analysis based on fire size and potential spread

Only VLM

#3

Behavior-based Hazard Detection



- Identifying potential risks such as SOP violations, negligence, and unsafe actions to proactively prevent incidents
 - E.g. operating without safety equipment (exhaust systems or gas detectors) activated; Improper handling or storage of hazardous materials

Nota AI is proficient in both CV and VLM technologies, applying the most suitable approach based on client needs and environmental condition.

Customer Benefit

Achieving High Detection Performance through Versatile Model Combination



- Combines various vision AI technologies including VLM, Visual Grounding, and CV to **address a wide range of detection requirements**
- **Customizes model configurations** based on site-specific characteristics and detection complexity

Maximizing Business Productivity through Easy Installation and Deployment



- **Compatible with existing CCTV and video management systems** without the need for additional equipment purchases
- **Can be applied on-site within 2–3 weeks without complex pre-training**, with support for channel expansion according to operational environments

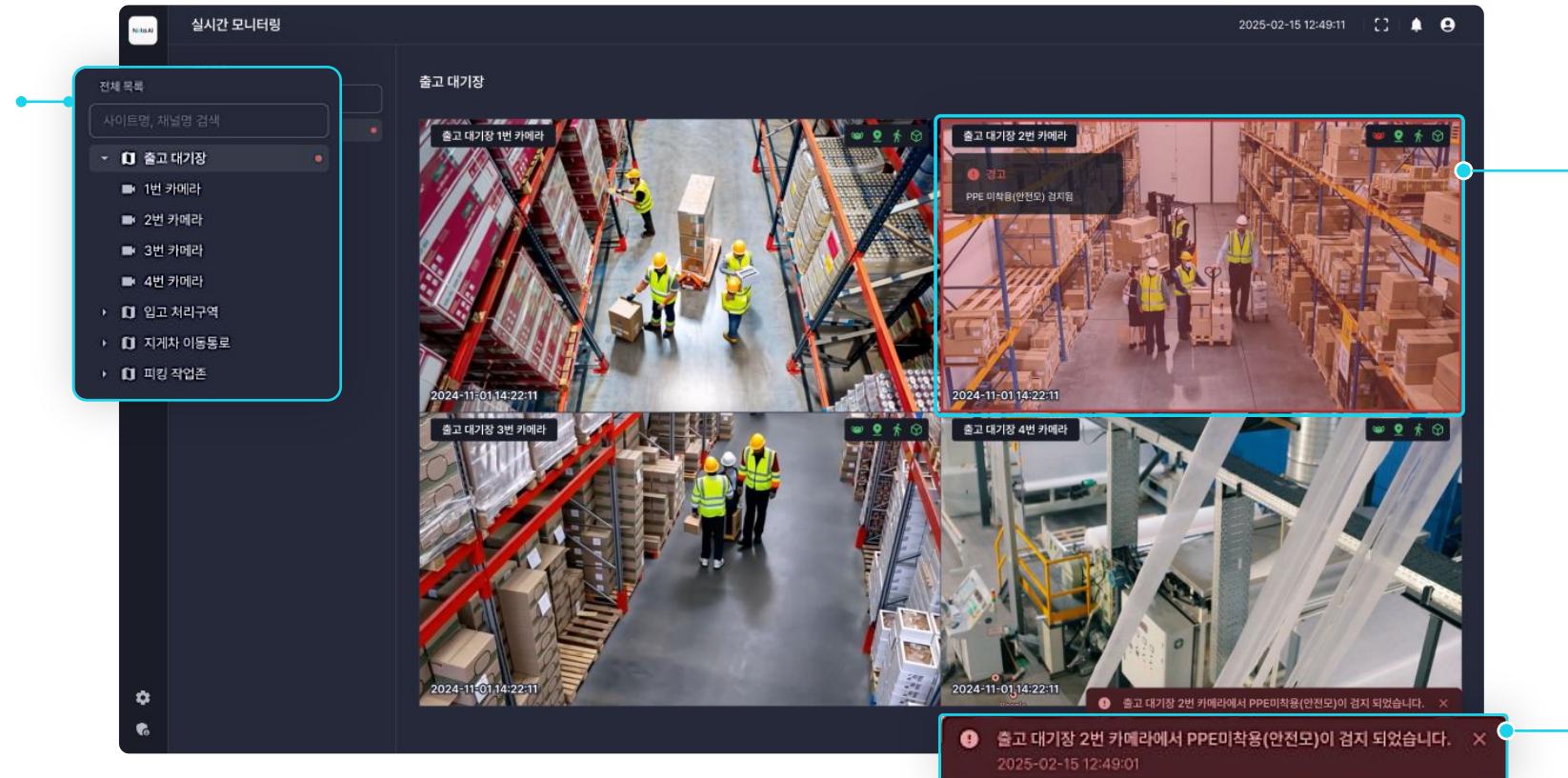
Improving Operational Efficiency



- **Reduces administrative workload** with features such as automated analysis reports and video search, enhancing operational efficiency
- **Enables efficient personnel allocation** through automated CCTV monitoring

NVA In Action | Real-Time Monitoring

Searchable List of Hazard Detection Zone and Channels



Real-Time Hazard Alerts

- Identifying the zone and type of incident
- With the integrated alert system, proactive preventative measure could be implemented
- Enables quick response by monitoring personnel

NVA In Action | Dashboard



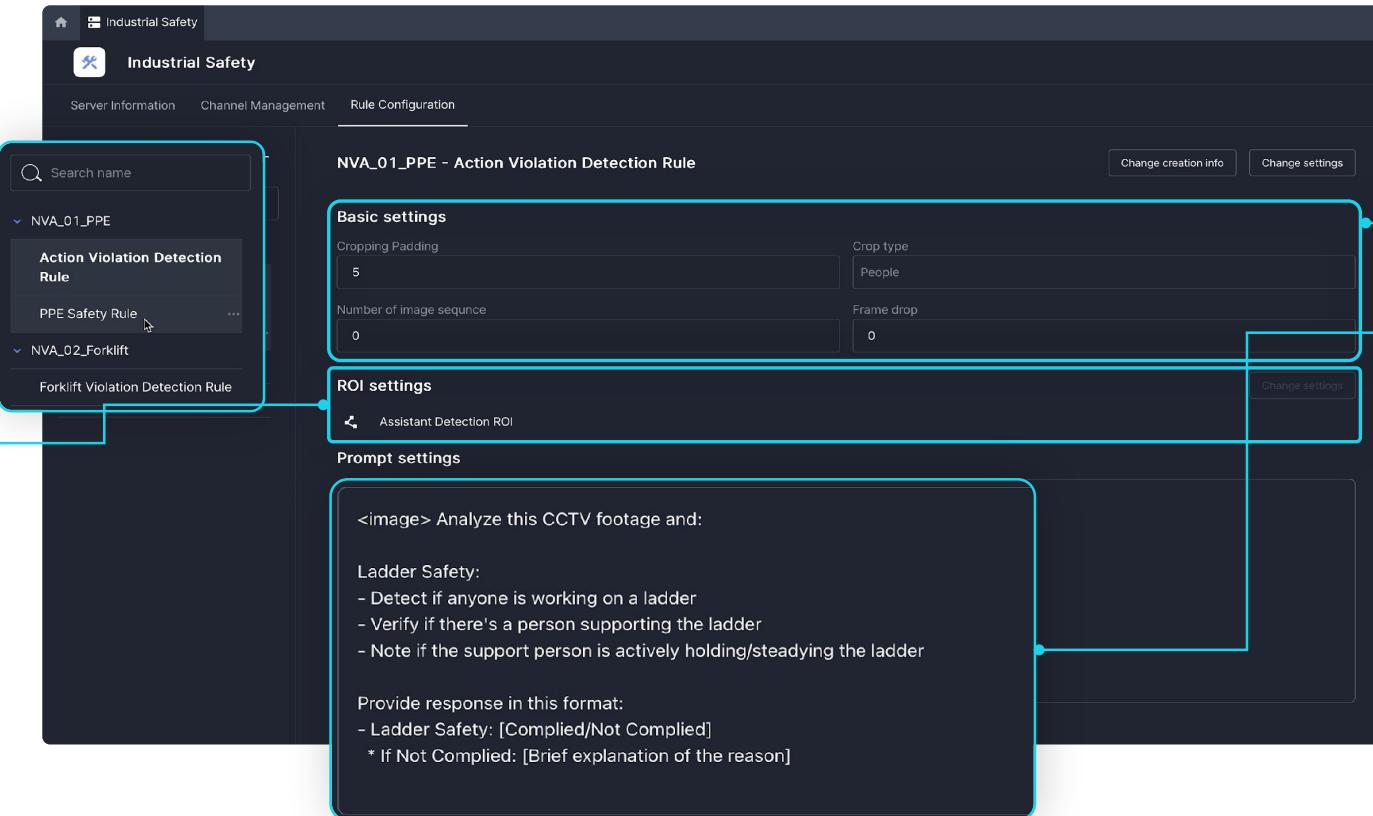
NVA In Action | Rule Setting

List of Detection Tasks

- Easily search existing rules

Monitoring Specific Hazard Zone

- Allows setting customizable zones for focused analysis of collected video and images
- E.g. pedestrian-only or restricted-access areas



Video Analytics Setting

Add or Edit Detection Rules

- Enter hazard detection requirements in natural language prompts
- Significantly faster rule creation and application compared to traditional CV solutions
- No coding required

NVA In Action | Incident Search

Search Specific Incident

- Search specific events by applying filters (e.g. time, type of incident, etc) from all collected footage
- Supports natural language search
- Eliminates the need for manual review of all footage

The screenshot displays the Nota Vision Agent interface for incident search. On the left, a main search panel shows filters applied: Date range: 2025-02-24 ~ 2025-03-10, Site: 전체, Event: 전체, Risk Level: 전체, and Sort: 최신순. It also shows a dropdown for Confirmation Status: 전체 and a note that 6개 항목 표시 (6 items displayed). The main table lists incidents, with one row highlighted in blue. This highlighted row corresponds to the detailed view on the right. The detailed view is titled '>> 컨베이어 벨트 침입' (Conveyor Belt Intrusion) and includes the following information:

- 발생 정보 (Occurrence Information): 일시 (Date): 2025-01-17 19:50:01, 사이트명 (Site Name): 출고 대기장, 체널명 (Channel Name): 1번 카메라.
- 이벤트 확인 (Event Confirmation): 위반 이벤트 (Violation Event): 건설기계 충돌 예방 (Preventing construction machinery collision), 위험 레벨 (Risk Level): 경고 (Warning), 확인 상태 (Confirmation Status): 미확인 (Unconfirmed).
- 비고 (Notes): 작성된 내용이 없습니다. (No content has been written).
- 이벤트 확인 (Event Confirmation): A large video thumbnail showing two workers in a warehouse aisle between shelving units.

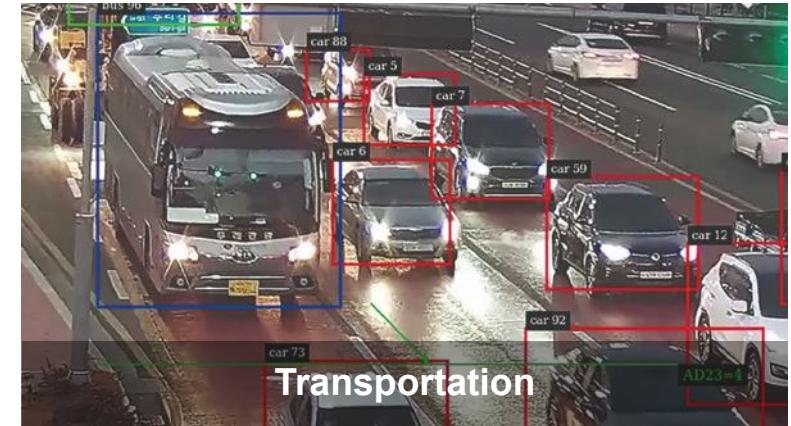
Applicable Industries



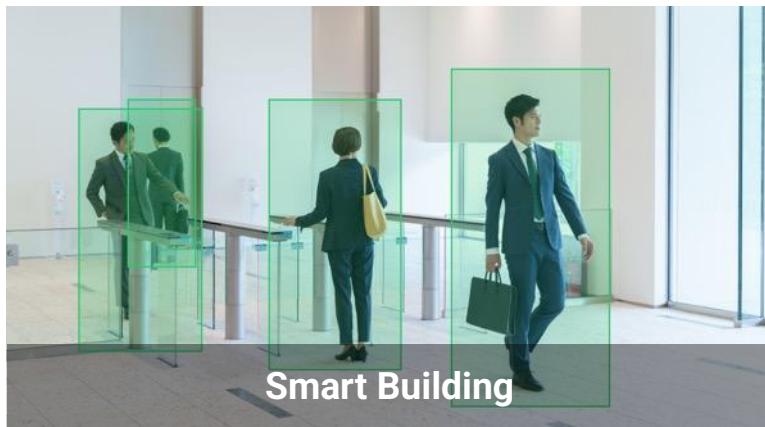
Industrial Safety



Surveillance



Transportation



Smart Building



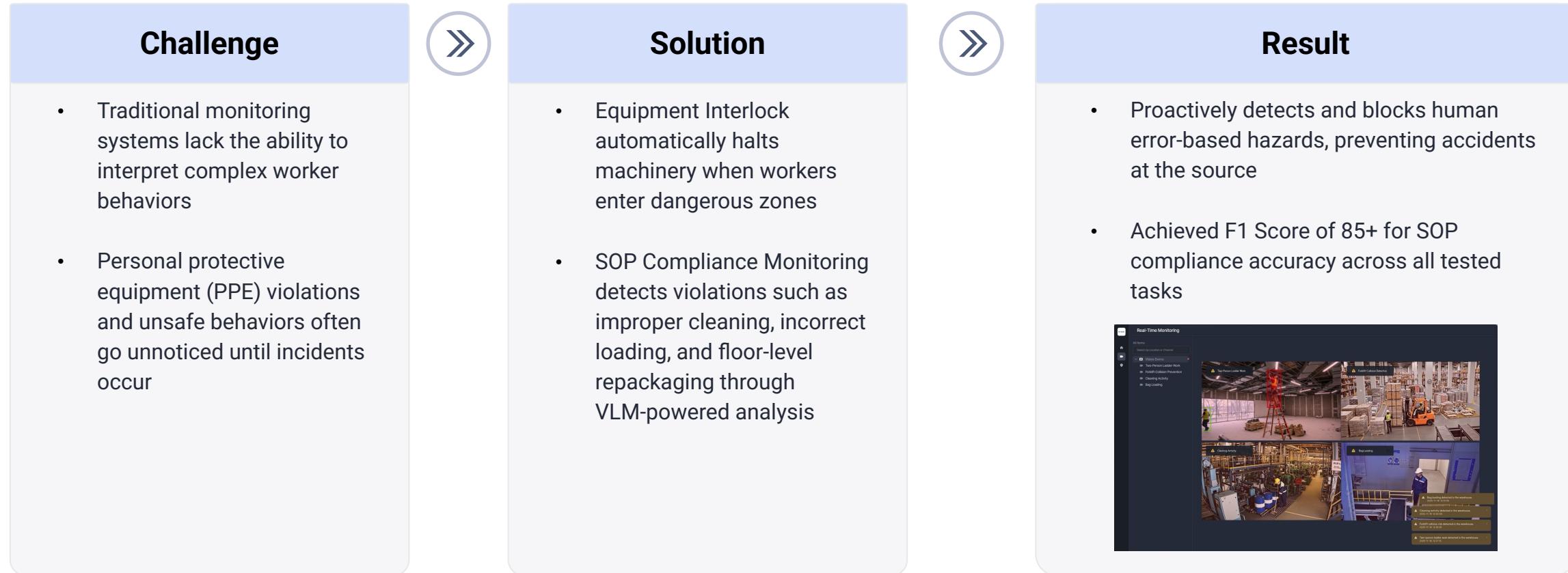
Retail



Child care / Senior care

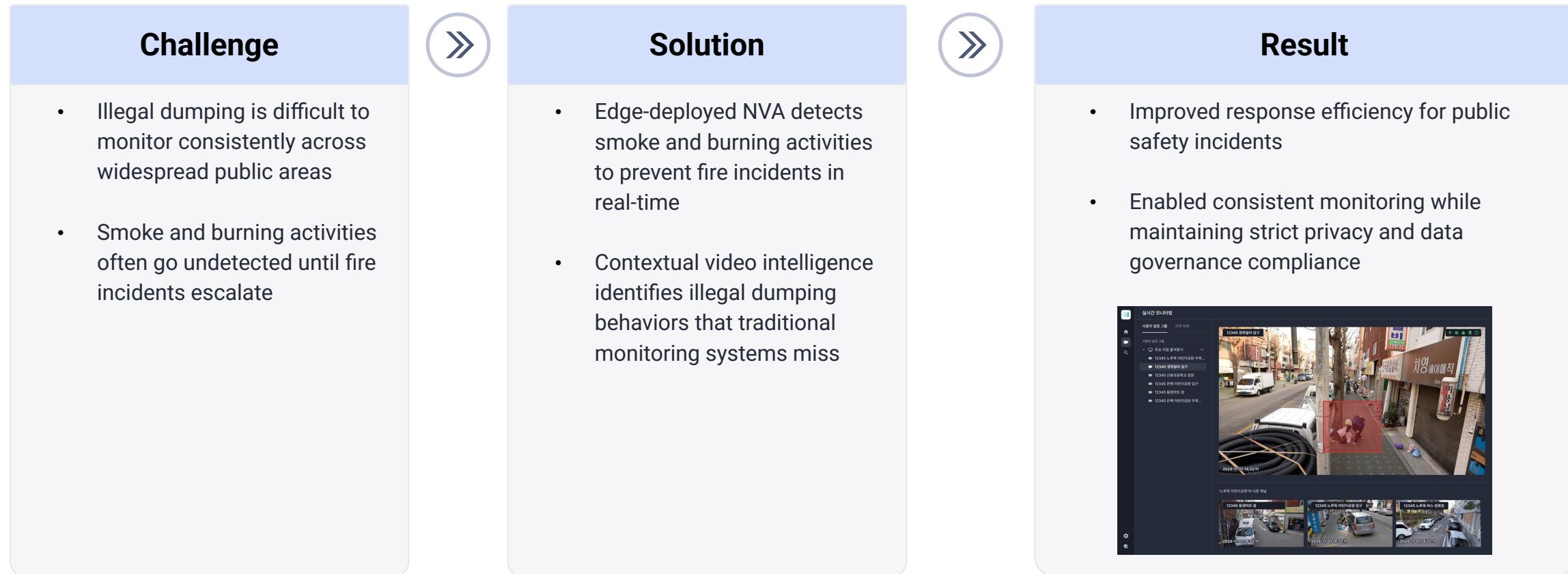
Use Cases - Industrial Safety

Chemical & Textile Manufacturer "K"



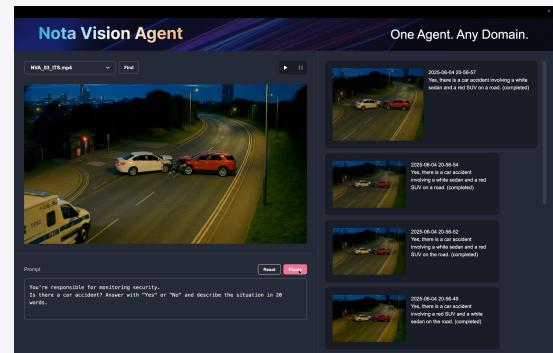
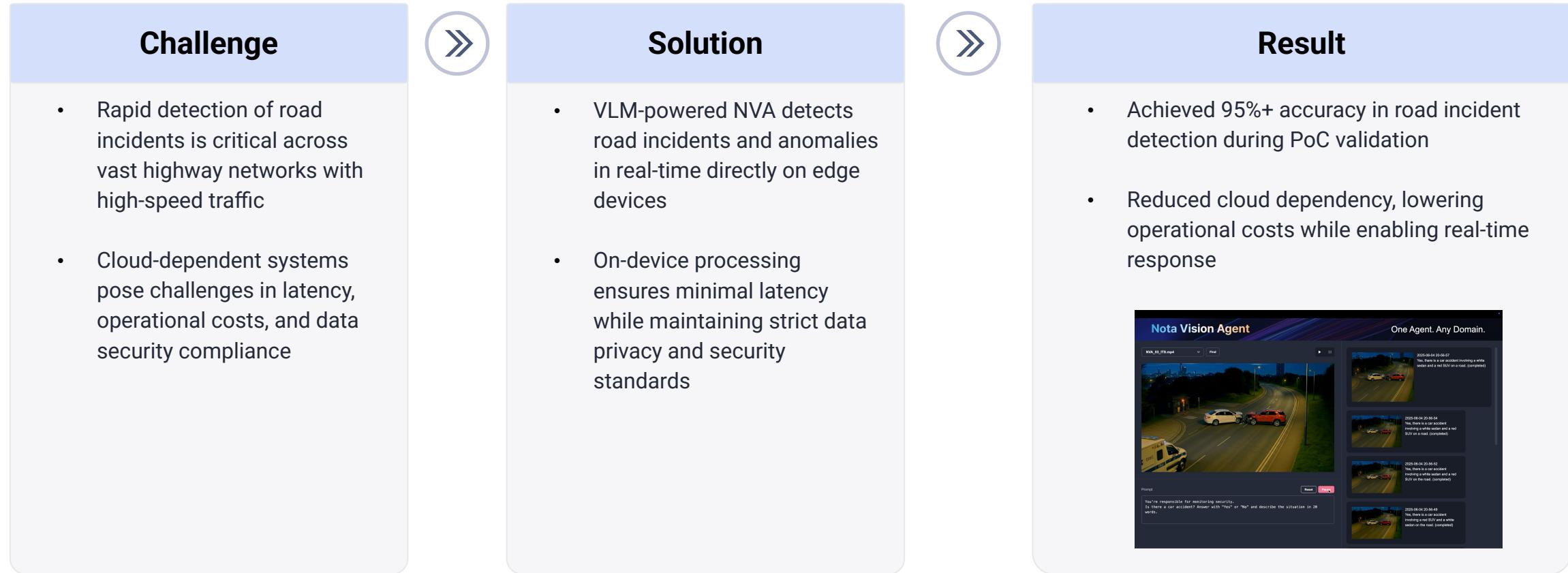
Use Cases - Surveillance

Municipal Government "G"

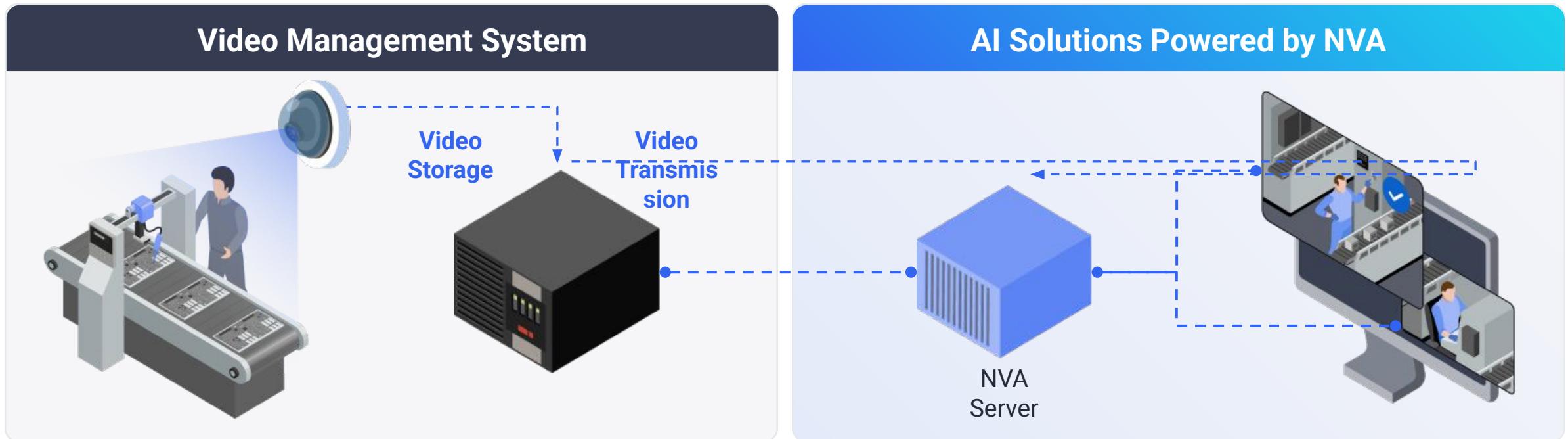


Use Cases - Transportation

Abu Dhabi Integrated Transport Centre (ITC)



Pipeline



- **No additional equipment required** – Easily integrate by connecting the 'NVA server' to existing video management systems.
- While conventional computer vision (CV) solutions require large-scale data training and take 3–6 months for deployment, the Vision-Language Model (VLM)-based **NVA can be rapidly implemented in the field within just 2–3 weeks**, without complex pre-training processes.



NotaAI

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