# Measy Al AloT-Based DISASTER PREVENTION DIGITAL SAFETY SOLUTION

Al Software that can be customized for national and corporate and can be equipped with a preventive model for any risk



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### **PROBLEMS OF CURRENT SAFETY MANAGEMENT**



Responsibility for Disaster Prevention to Country & Safety Prevention to Company



Difficulty in Safety Management Relying on Human Resources Due to Aging and Carelessness



A lot of Safety blind spots that still exist

### Expected Effects of Mining Place Introduction





Efficiency of construction management, such as shortening construction period and reducing construction costs

Through a systematic field management platform and risk assessment model Effectively reduce social loss costs by reducing construction accidents

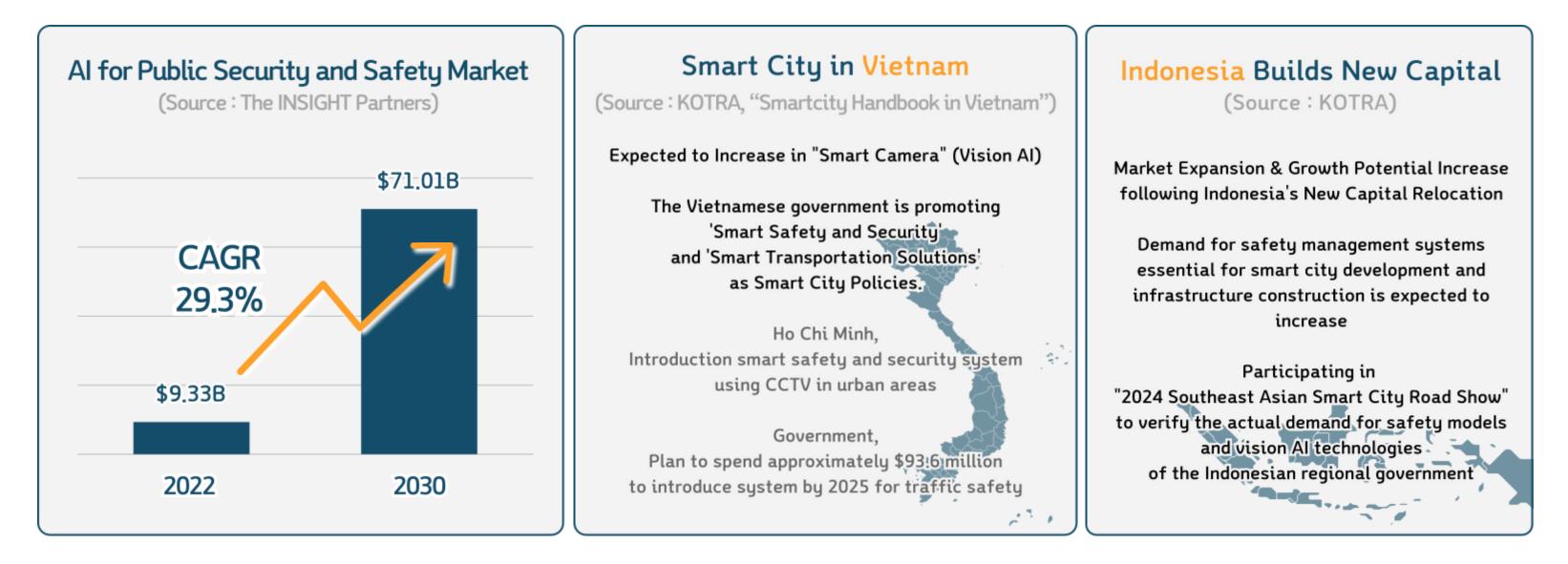
Contribute to reducing human/physical disasters through safety technology

Improvement of workers security



### POTENTIAL FOR GLOBAL SAFETY MARKET ENTRY

The market for AI for safety is predicted at a CAGR of 29.3%. In particular, in Vietnam, demand for smart cameras is expected to increase due to the promotion of smart city policies, and in Indonesia, demand for AI safety systems is expected to increase due to the construction of a new capital.



### AI detection models expertise(Customized) Vision based AloT safety management

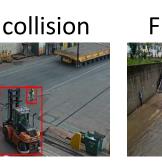
Patented technologies held by the proposed company: Severe disaster video vision preemptive prevention system, ultraprecision vision analysis technology

Al model that **detects the wearing status of safety protective** equipment of field workers: You can choose the type of safety protective equipment you want such as helmet, gloves, mask, goggles, work boots, etc.

Access











WS9 BELT WS2 LEGG S WS1\_SHOE

#### The proposed company has a number of AI models that can prevent various risk factors needed in the field, and will introduce them in a customized manner.

Fell down

Fire

Transporta

Forest fire







Flooding





Obstacle







### AI Safety Management Operation 4-step from risk detection to prompt notification

#### Step1

#### AI real-time monitoring



Step2

**AI Risk Detection** 



AI CAMERA monitors dangerous situations in the field in real time. If a dangerous situation is found,

AI CAMERA is tracking, monitoring, and enlarging only that risky situation. The safety protection model detects in great detail which protection is not worn.

### Step3

### **AI Alert Notification**



Quickly inform the HSE safety management officer of the violation information through WhatsApp about who is not wearing any safety gear and what kind of safety gear.

fication

### Step4

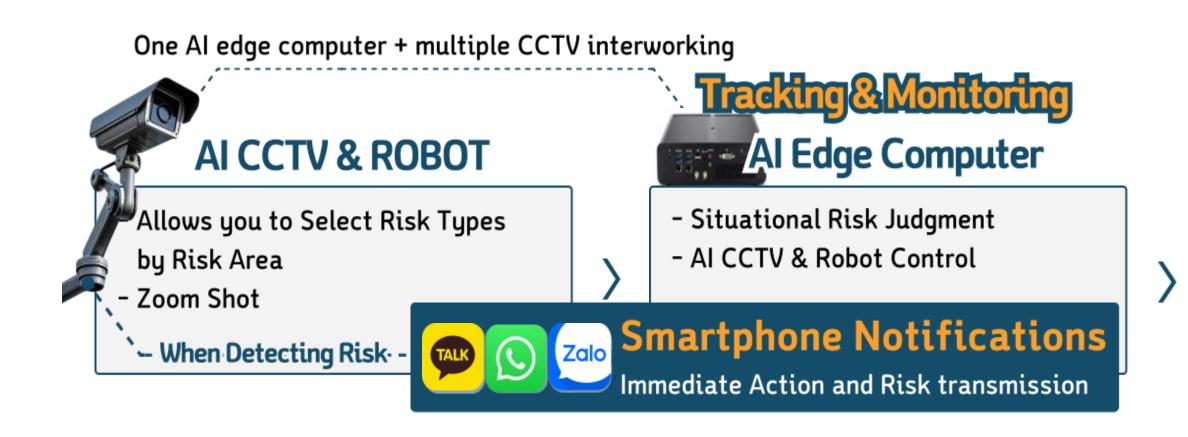
#### **Preparation of action report**



As AI automatically writes risk reports, HSE safety management personnel shorten safety management time, increasing efficiency.

### EASY AI DISASTER PREVENTION SYSTEM

This is an integrated disaster prevention service that installs a desired risk prevention model tailored to the country and company in AI edge computers(SaaS), protects on-site risks together while communicating with workers in real time, and utilizes real-time risk images for safety education.

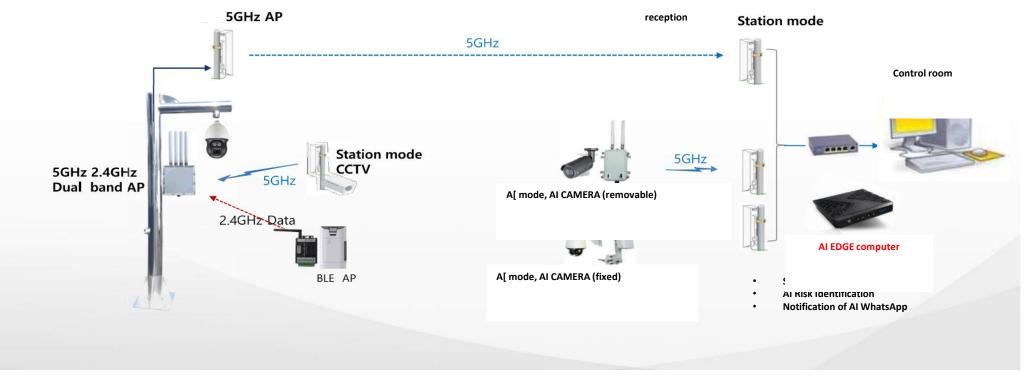




- Intelligent AI Learning
- Equipped with AI to Determine Risk according to the Type of accident tailored to the situation

### System operation concept How does the AI model work? Wireless network

The AI Safety gear detection service HW device consists of AI CAMERA and AI EDGE computers, and the AI SW model is installed and operated on an AI EDGE computer called on-device AI.









AI CAMERA can shoot up to 6x magnification while monitoring up to 1km of distance. By magnifying a single situation into multiple detailed situations, it accurately detects risks.

- 3) Can be installed anywhere on site

#### 2 AI EDGE computer Benefit



1) Size: Less than a laptop compared to a traditional server

2) Less Power consumption, Less Heat, Less Noise

4) Communication costs: Edge computers themselves do not incur

communication costs because they do not send data to the outside

5) Device cost: Very low, one-twentieth of the existing AI server

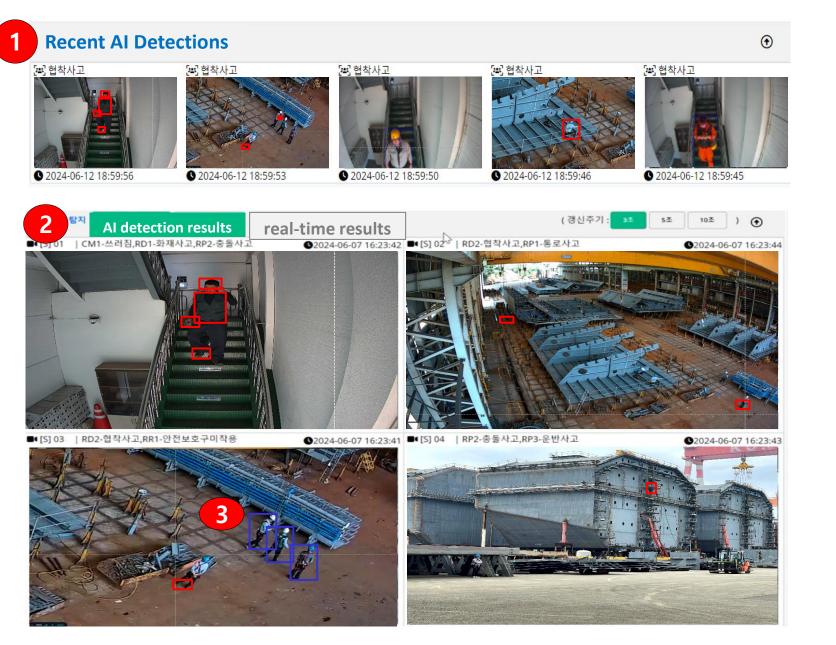
### Monitoring AI detection results

Monitoring the full AI detection results by AI CAMERA location

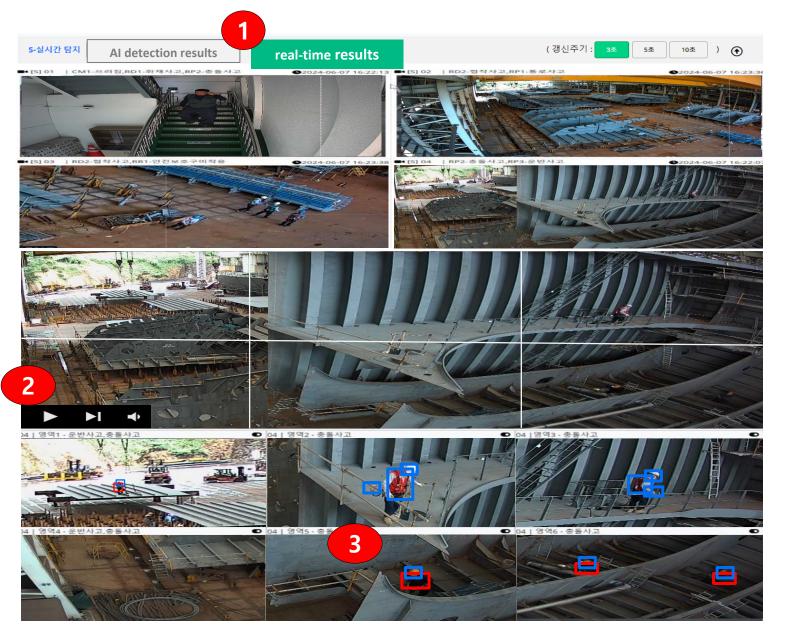


### Monitoring real-time

#### Real-time video and detailed risk detection



- 1) Check the latest AI detection results
- 2) Check real-time video
- 3) If wearing safety gear is normal, it is marked in blue, if there is a problem, it is marked in red



- 1) Click real-time results: Real-time monitoring for each AI CAMERA
- 2) Check real-time video
- 3) By magnifying a single situation into multiple detailed situations, it accurately detects risks

## AI detection history

Check the history of not wearing safety protective equipment

검색								Q त्रय
Al model Al Detection Period			전체       RR1- not wearing safety protective equipment       RP1-통로사고         RP3-운반사고       RD1:화재사고       RD2-협작사고       CM1-쓰러짐         2024-06-03       🖆 ~ 2024-06-12       🛍 1 Week       1 Month       3 Months					
카메라 탐지	work an 영상 목록	ea	전체				3	Excel
	NO	Risk type	AI Detection Date	CAM	Locat ion	Notification Date	Image (AI result)	기능
	48	RR1- not wearing safety protective equipment	2024-06-12 08:56:37	06	Section B-2	2024-06-12 08:56:37		S 카카오 채널 공유
	47	RR1- not wearing safety protective equipment	2024-06-12 08:56:33	06	Section B-2	2024-06-12 08:56:33		S카카오 채널 공유
D	46	RR1- not wearing safety protective equipment	2024-06-12 08:52:11	06	Section B-2	2024-06-12 08:52:11		S 카카오 채널 공위
D	45	RR1- not wearing safety protective equipment	2024-06-12 08:52:07	06	Section B-2	2024-06-12 08:52:07		S 카카오 채널 공위
C	44	RR1- not wearing safety protective equipment	2024-06-12 08:46:41	06	Section B-2	2024-06-12 08:46:41		▇ 카카오 채널 공위
.0	43	RR1- not wearing safety protective equipment	2024-06-12 08:43:45	06	Section B-2	2024-06-12 08:43:45		S 카카오 채널 공위
	42	RR1- not wearing safety protective equipment	2024-06-12 08:43:41	06	Section B-2	2024-06-12 08:43:41		▲ 카카오 채널 공위

- (can be customized according to desired information)
- 3) Download Excel and create report

1) Select the period for which you want to check AI detection results 2) Check AI detection result information for not wearing safety gear

### 🔊 Easy Al

## AloT-based Disaster Prevention Easy Al Digital Safety Management System

Demo of Construction of Shipyards in Korea



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