★2 divisions★
Edge AI Computer | AI-Powered Image Recognition
JAPAN'S Solutions Market
Vendor Share No.1 Double Achieved!
2025 Ed.

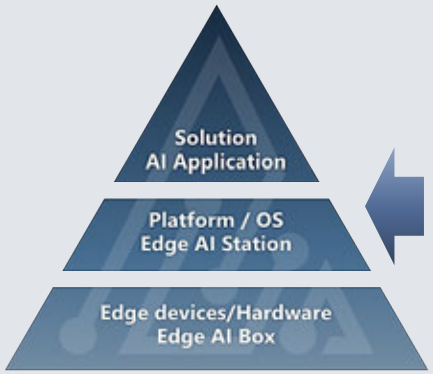
Deloitte Tohmatsu MIC Research Institute

EDGEMATRIX Inc.

Empowering Smart Cities with "Edge Vision AI"

"Our **Edge Vision AI** solution brings advanced Smart City Video Intelligence to the edge, driving the next generation of **Smart City AIoT** infrastructure."

SMART CITY



Investors

docomo business
SHIMIZU CORPORATION 清水建設
JP CAPITAL 日本郵政キャピタル
TIS INTEC Group
SONY
Digital Garage
RESONA りそなホールディングス
svb Capital
First Citizens Bank
CLOUDIAN

ISO/IEC27001 JUSE-IR-492
ISMS-AC ISMS IS800

Edge Vision AI Products

Edge AI Box / Edge AI Station



Smart City Solutions

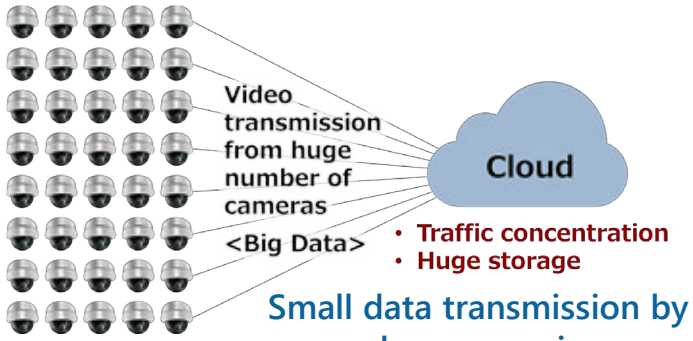


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Advantages of edge processing in IVA (Intelligent video analytics)

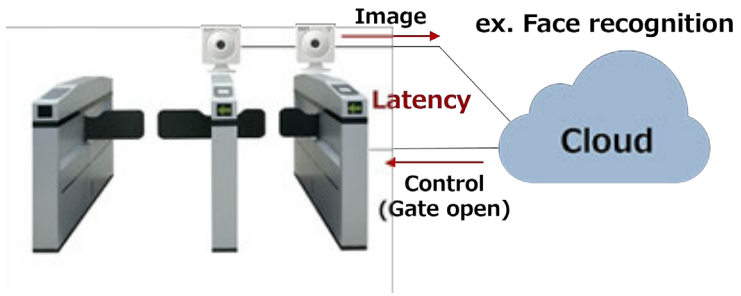
Cloud Computing → Edge Computing

1. Communication and facility costs



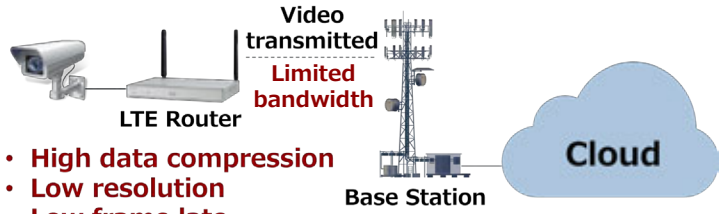
Small data transmission by edge processing

2. Network latency



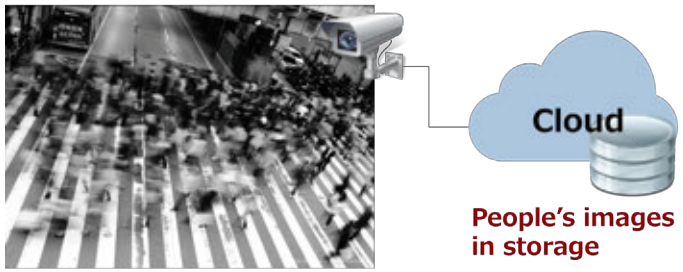
Real-time control with edge processing

3. Recognition rate reduced over wireless transmission



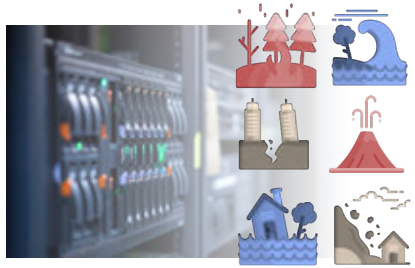
High resolution and high frame rate processing at the edge

4. Privacy



Send only analysis result values without leaving portrait images

5. Data center damage

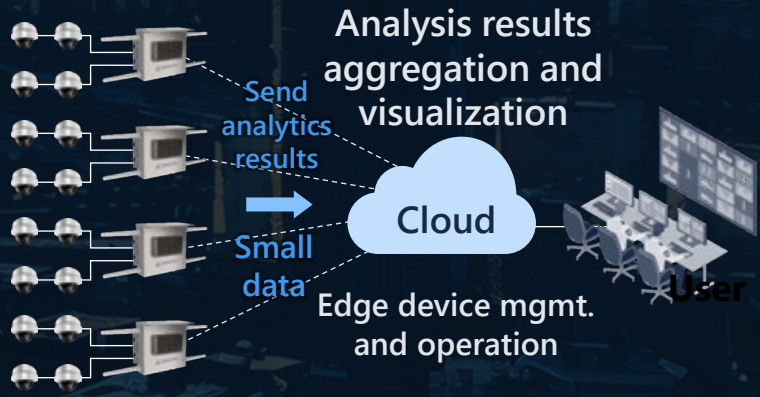


Disaster

Shutdown of the entire system due to earthquakes, tsunamis, eruptions, floods, fires, etc.

Preventing the spread of damage by edge self-driving and geographical distribution

"Video Edge AI" solves the problem.

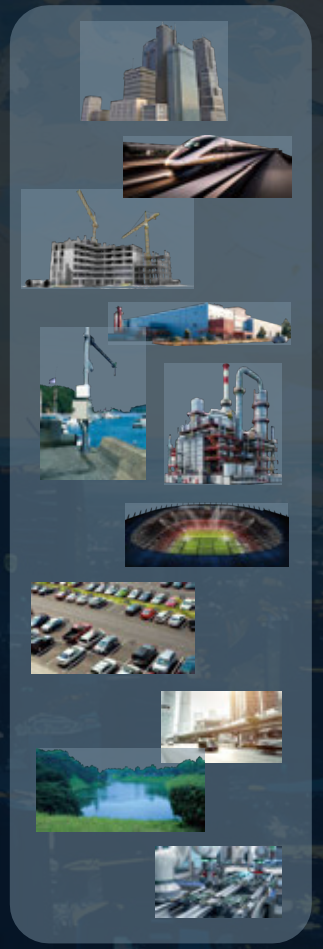


- Perform all AI processing at the edge
- Edge distributed processing

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Configuration and benefits of the "Edge Vision AI" computing system

Smart City



EDGE
Edge AI processing

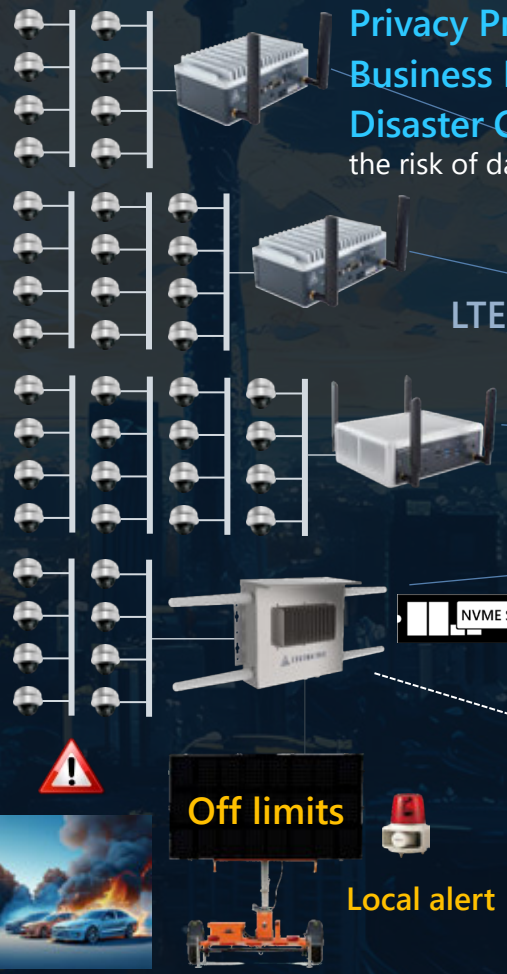
High-performance GPU : Multi-camera/multi-app simultaneous processing

Security : User authentication, data encryption

Privacy Protection : Process at the edges and leave no images

Business Logic : Action rules when an event occurs

Disaster Countermeasures : Geographical distribution reduces the risk of data loss and damage



Local alert

AI analyzes and processes a large amount of camera footage present in smart cities in real time at the edge

Network
LTE, 5G, WiFi, LAN, WAN, Internet

Remote control

Reduce communication costs :
Send analysis results (**Small Data**)

Smart recording : Screenshots and video recording to edge storage (SSD)

LTE
Remote alert



Possible to view video footage of the site where the alert occurred

ON-PREM or CLOUD

Central Monitoring Room

Visualization of analysis results : Visualize the on-site situation at a glance

Dashboard : Monitoring multiple edge devices

Remote operation : Edge device configuration, management, and operation

Alert : Alarms when abnormalities occur and on-site video monitoring



Visualization System
On-prem Server or Cloud

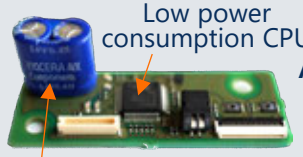
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Edge Vision AI Products and Solutions

A wide range of interfaces for installation anywhere



ARMM automatic recovery function Supports 24×365 operation



Automatic reboot
- Cold Boot
- LTE Reboot
- PoE Reboot

Edge AI Station

Artificial Intelligence Video Analytics Platform | EDGEMATRIX

Standalone Realtime Parallel Low cost Logic Integration Security Remote

High environmental performance

Operating temperature : -25℃ to 60℃
Vibration: 3 Grms (5-500Hz)



Waterproof outdoor cover
- IP65
- Option



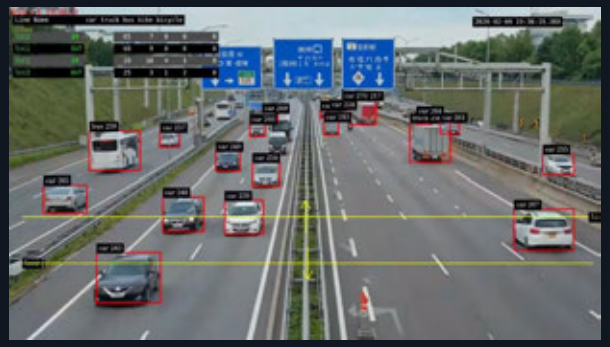
Kaleidoscope

Multi-function human detection : Line crossing count, area count, and dwell detection performed on the body and head with privacy mask



Smart Traffic

Counting passing vehicles counts by vehicle type (passenger cars / buses / trucks / motorcycles / bicycles), Wrong-way driving detection



Smart Parking

High-precision parking lot congestion assessment app

Determines parking lot congestion using bird-eye view area counting



Fire Guard

Detects fire flame and smoke at indoors and outdoors where fire alarms cannot be used



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Edge AI Station



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Thank you !

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