



# AI CLOUD IN PUBLIC SAFETY

SAFE CITY & TRANSPORTATION



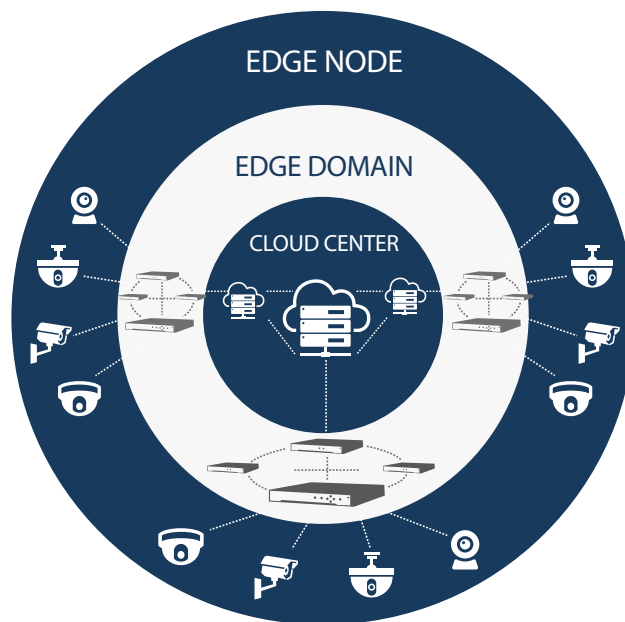
**HIKVISION<sup>®</sup>**

See Far, Go Further

# WHAT IS HIKVISION AI CLOUD?

Hikvision AI Cloud establishes a distributed structure incorporating cloud computing and edge computing. It extends the artificial intelligence (AI) algorithm from the cloud, to an edge domain of on-premise video recorders and servers, and further to edge node such as security cameras and NVRs. The three-layer architecture supports the goal to build a new class of AI-powered applications, being even smarter and faster.

Hikvision provides a full range of AI Cloud products and solutions from perception, storage, and computing, to data analysis, as well as comprehensive open interfaces. We offer intelligent industrial solutions by working with partners to develop and build AI-based ecosystems.



<b>Perception &amp; Cognition</b>	Perceive and understand the objects in videos, images, and capture them as structured data.	<b>Deep Learning</b>	Obtain key information from big data; optimize computing algorithms and data models through continuous learning based on neural networks.
<b>Deduction &amp; Analysis</b>	Use the structured data to build data models and relationships based on business rules; Deduct, compare, and analyze data to gain perceptive insights for decision making.	<b>Human-Machine Interaction</b>	Interact with human in a natural and friendly manner via augmented reality and virtual reality.

## TECHNOLOGICAL ARCHITECTURE:

- **Edge Node:** Data collection from multi-dimensional sensors and front-end processing
- **Edge Domain:** Intelligent applications and the collection, storage, and processing of data
- **Cloud Center:** The fusion of business data, and the applications of multi-dimensional big data analysis

## FUSION OF CLOUD AND EDGE COMPUTING:

- **Convergence from Edge to Network:** Data from edge nodes is processed and converged to edge domains
- **Network as the Center:** IoT data is stored and processed on the edge, and then is linked to the business data, delivering intelligent applications and creating new data
- **Data to the Cloud:** Data created from edge domains resource centers and smart applications is converged to cloud center on demand, and used for multi-dimensional data analysis

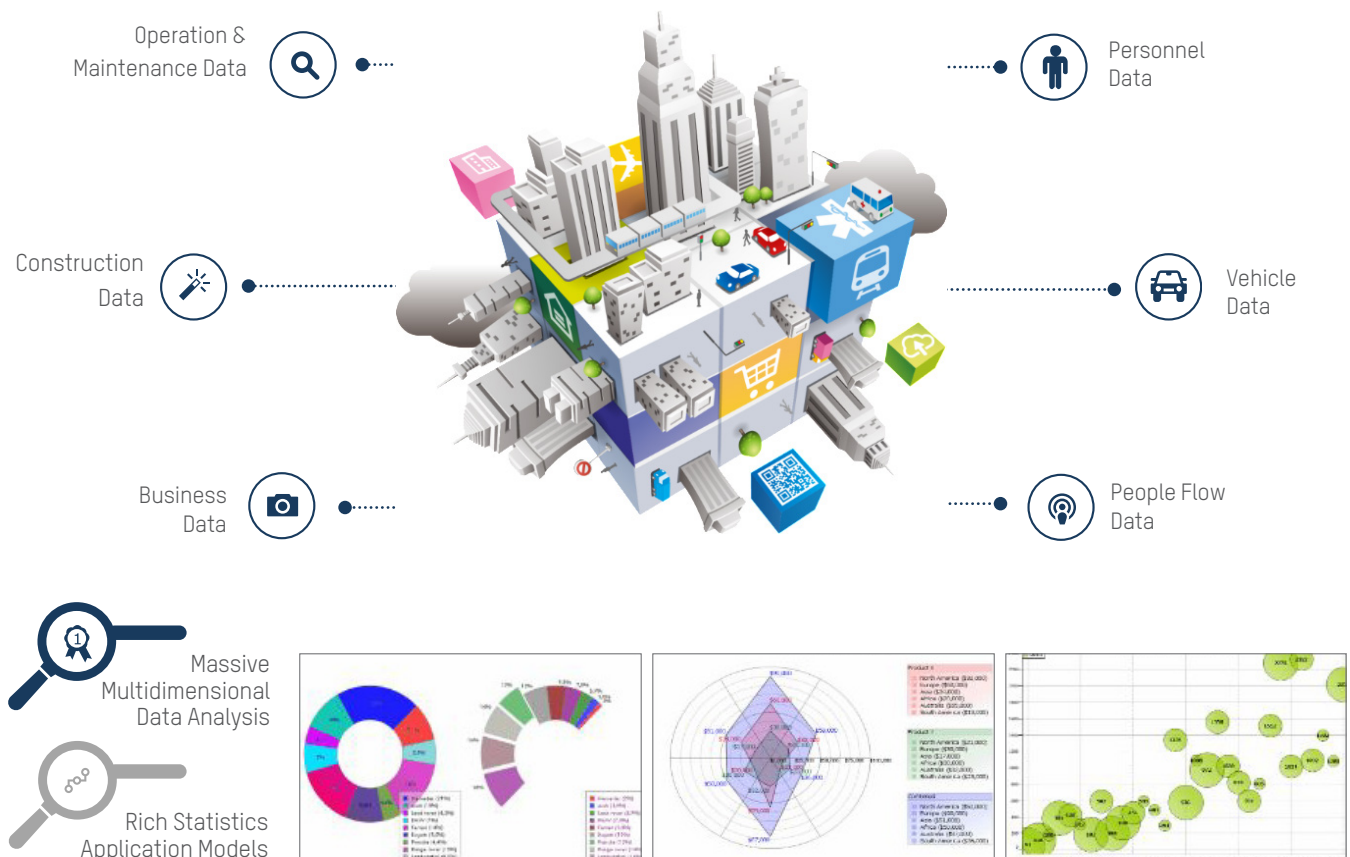
# AI CLOUD VERTICAL SOLUTIONS

## SAFE CITY

The solution of Hikvision Safe City aims to provide availability, reliability, and stability for municipal public security. It entails a series of advanced technologies with regard to various security subsystems of industries, central operations, and integrated security platforms so as to respond fast and effectively. All devices, facilities, software, and services involved Safe City help reinforce municipal administration, improve people's lives, and boost substantial development in the long run.



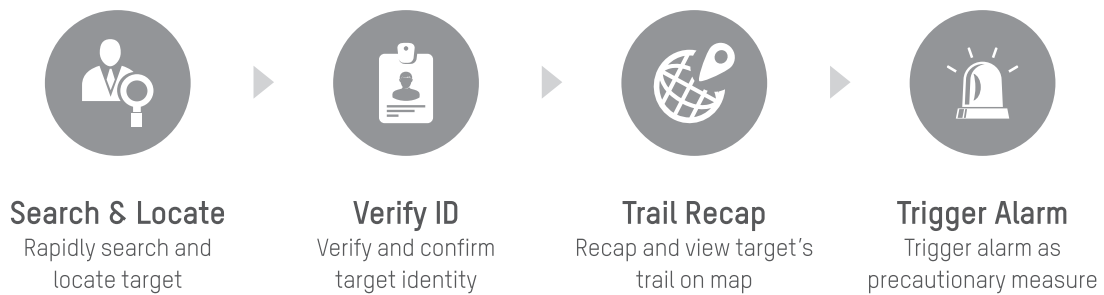
## MULTIDIMENSIONAL STATISTICS, ANALYSIS & APPLICATION



## TRAIL ANALYSIS



## SURVEILLANCE DEPLOYMENT



## PRECAUTION & PREDICTION



### Predictive Analysis

- Unexpected incident handling and anti-terrorism
- Traffic flow prediction
- Disaster precaution and prevention

# AI CLOUD VERTICAL SOLUTIONS

## INTELLIGENT TRANSPORTATION SYSTEM

### Full Range Sensing

Human, Vehicle, Road, Cargo, Environment

Feature, Content, Behavior, Event, Status

### Cloud Integration

- Cloud Storage
- Cloud Security
- Cloud Analysis
- Cloud Computing
- Cloud Service
- Cloud Maintenance

### Extensive Applications



#### Traffic Enforcement

- Obtaining evidence of violation
- Traffic ticket



#### Traffic Guidance

- Data collection
- Road condition analysis
- Information release



#### Traffic Signal Control

- Single point control
- Main road control
- Area control



#### Smart City Surveillance

- City surveillance
- Backlist control



#### Urban Rail Transit

- Key area monitoring
- Real-time people counting
- Video-based behavior analysis



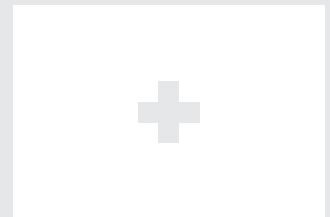
#### Expressway Management

- Information monitoring
- Toll management



#### Container Code Recognition

- Active IR detector
- Container code recognition





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