



HOC Safe City Solution

Safeguard Your Living



Online Sensing



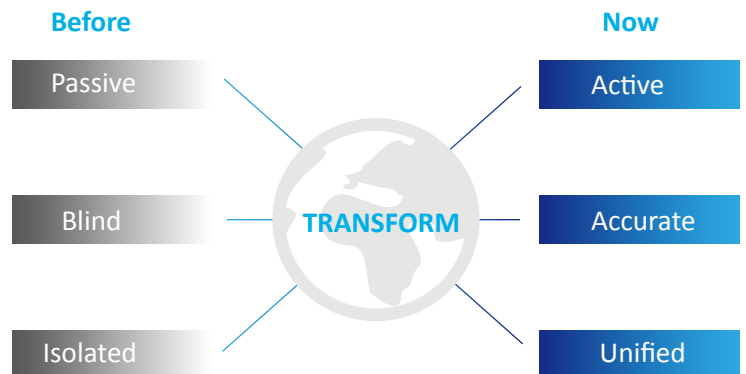
Action Landing



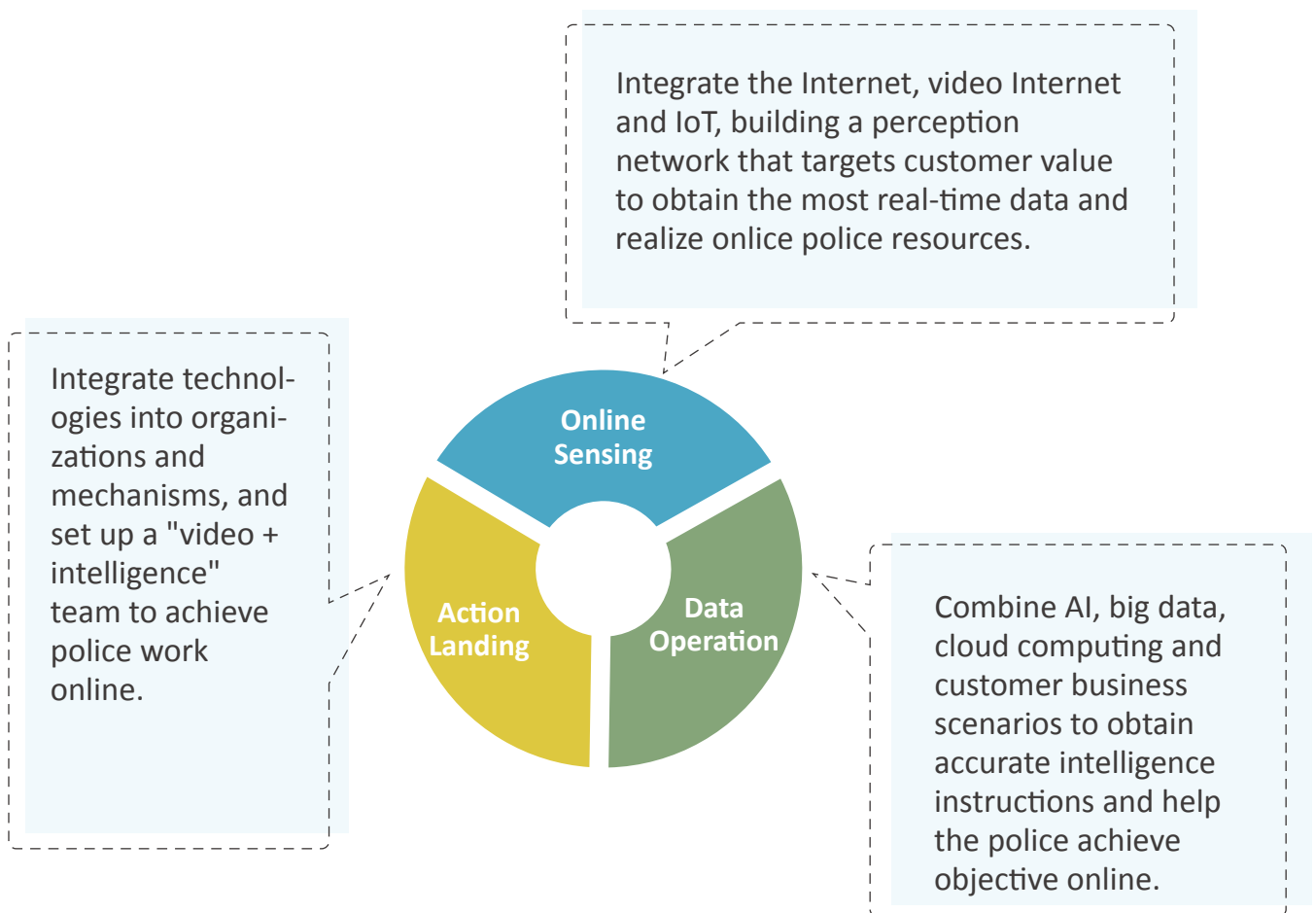
Data Operation

Transformations

- Only when the case occurs will the police go to the crime scene to watch the video for investigation.
- It is hard for the police to figure out a suspect's criminal records or recognize the anecdote vehicle in a hit - and - run case.
- Data cannot be shared and further mined across systems, departments, regions and cities.



Construction Conception

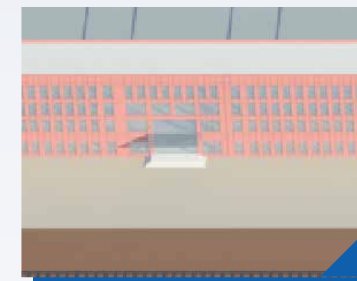


Online Sensing

Intersection - Overview Monitoring



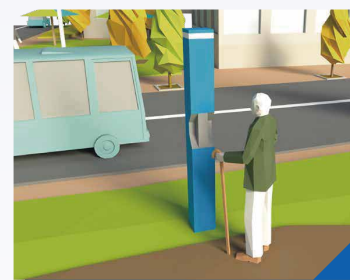
Hospital, School, Metro - Face Recognition System



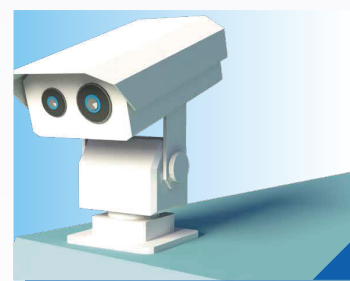
City Sidewalk - Human Checkpoint



Square - Emergency Phone Tower



High Altitude Point - Positioning System



Mobile Police - Mobile Portable Terminal



Incident Scene - Drone



Mobile Police - Mobile Vehicle Surveillance



Data Operation

70% cases are vehicle-related

Vehicle multi - feature recognition

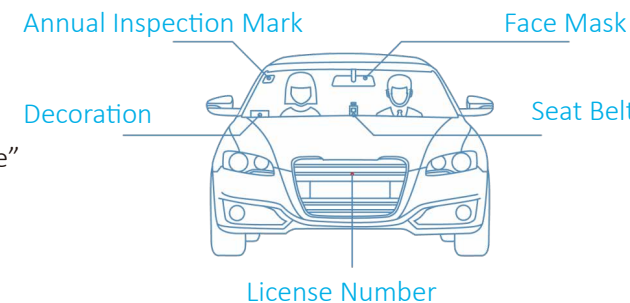
More than 120 brands, 2400 types, 12 vehicle systems, plate number recognition accuracy > 95%

Police Big - data Pre - warning

Multi - dimensional "human - vehicle - case" big - data pre - warning

"Vehicle Cloud" Resilient Service

1s for search in 1B image library
60M vehicles retrieval in 1 ms



The Only thing that matters is Human

Leading Recognition Algorithm

Face detection, face recognition, expression recognition
Feature: age, gender, glasses, clothes

Police Big - data Pre - warning

Multi - dimensional "human-vehicle-case" big - data pre - warning

"Face Cloud" Resilient Service

Numerous channels of face recognition capability, 1 Billion dynamic face library



Cover all services and applications of video cloud

Cloud Intelligence
100K ch face recognition, 100M dynamic portrait library etc.

Cluster System
Assemble and deploy within minutes
Resource Flexibility
Within seconds

Cloud Storage Support millions of devices, EB data storage, 100k transmission 99.9999% reliability

Cloud Database 100 trillion search within millisecond; 50 million collision query within seconds

Cloud SDK

Unified management of monitoring resources

Video

Audio

Face

IoT

Archival data

Geographic Information

Unified operation and maintenance

Big data ecosystem
City smart application group
Urban basic data service platform

Urban basic database

Appropriate distribution of computing power, storage and network resources

Real - time sensing of urban status

Construction Steps

1

Build a multi - dimensional perception network

2

Develop a comprehensive application system of public security intelligence information

3

Cultivate a team for video and intelligence analysis and judgment

4

Establish a working mechanism of intelligence and action

5

Explore Scenario - based practical application model

Action Landing

Professional Intelligence Analysis Team

Operating Mode:
Command + Police Force
1. Central command center
2. Branch office center
3. Intelligence research office
4. Police Force



Standardized Mechanism for Intelligence Information

Operation Mechanism: Intelligence + Action
1. Handle emergencies quickly
2. Work quickly
3. Detect quickly
4. Arrest quickly



Intelligence Information Analysis Methods

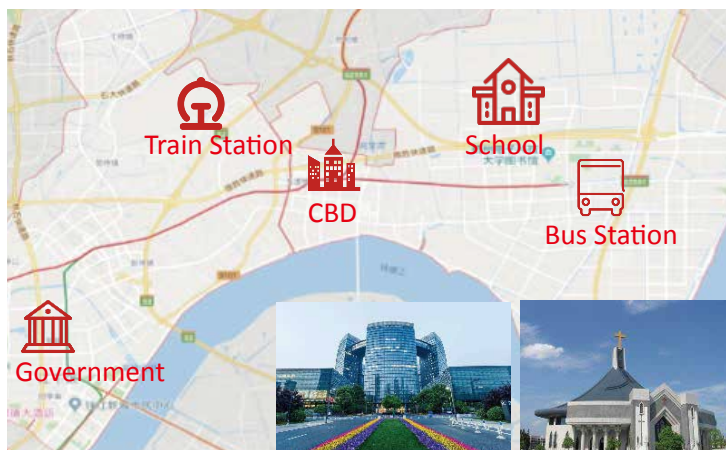
1. How to solve the cases
2. How to prevent
3. How to manage
4. How to act



BRAINSTORM

Background of Hangzhou Safe City Project

Jiangan District is one of the five main urban areas of Hangzhou. It has a geographical area of about 105km² and has 8 Administrative hub, 141 communities and 4 villages.



Three Centers:

Industry Center - The new administrative center of Hangzhou

Economic Center - Owns the most important CBD in Hangzhou

Transportation Center - Owns the largest train station and car hub in Hangzhou, bringing together various traffics such as highway junctions and bridges across the river.

Two Elements:

Population - non-registered population of about 1.06 million, ranking first in Hangzhou's main urban area

Development - the whole district is experiencing dramatic urbanization and transformation

Challenge:

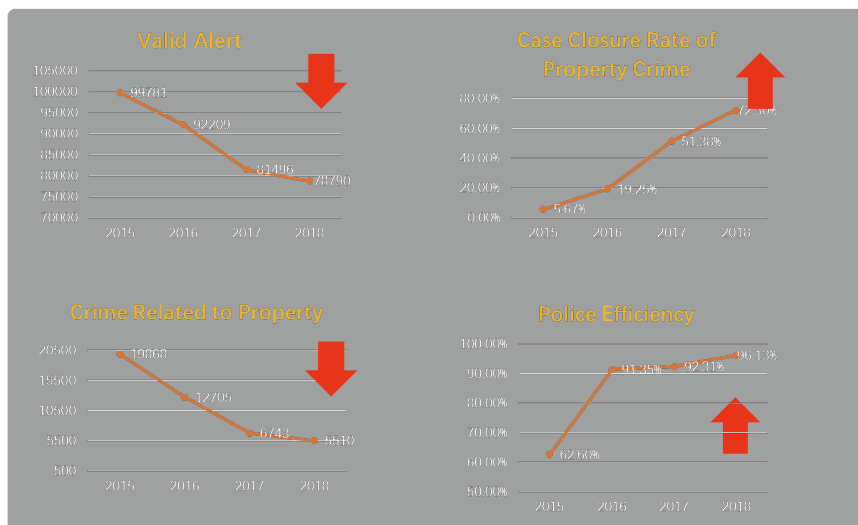
Complex Situation: With the non-registered population accounting for about 40% of the total, urban management was difficult

Technical Difficult: Insufficient surveillance coverage and passive sensing way and partial intelligence system are unable to deliver prevention actions. it is difficult to achieve the targets of lower crime rate and solve cases.

Shortage of Policeforce: In average, every policeman needs to manage 1,700 citizens. The serious shortage of police resources leads to difficulties in providing timely police response.

Benefit

Since 2016, the Dahua HOC Safe City Solution has helped Jiangan Public Security achieve outstanding results including enhanced police intelligence, reduced crime cases, increase in case closure rate and efficiency, improvement in public service, and speedy recovery of missing individuals, opening a new chapter for intelligent police operations.



Caught
352
fugitives

Crimes
prevention
722

Lost people
retrieved
274

2018 Achievements

ENABLING A SAFER SOCIETY AND SMARTER LIVING

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* Design and specifications are subject to change without notice.

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