Smart Residential & Community
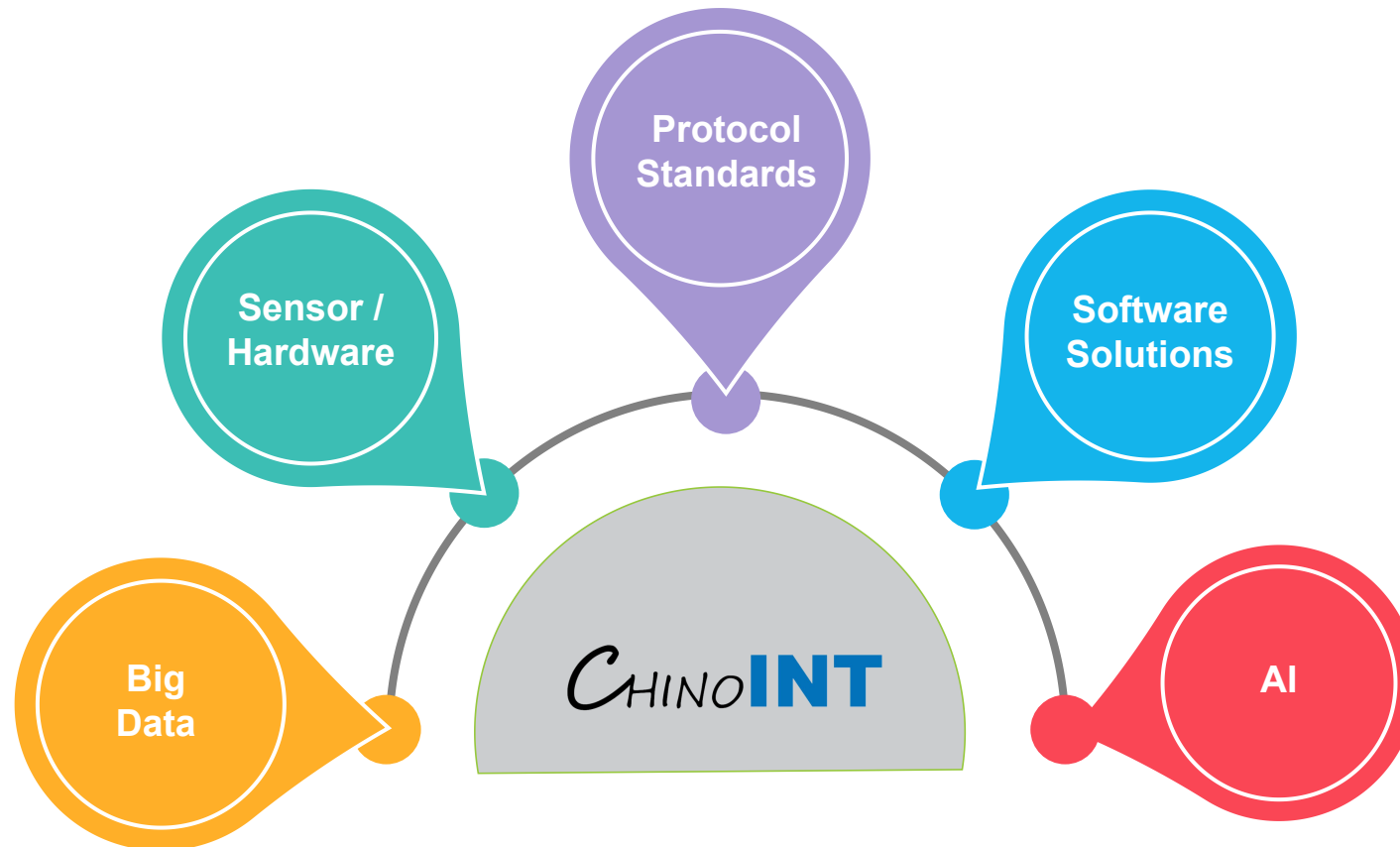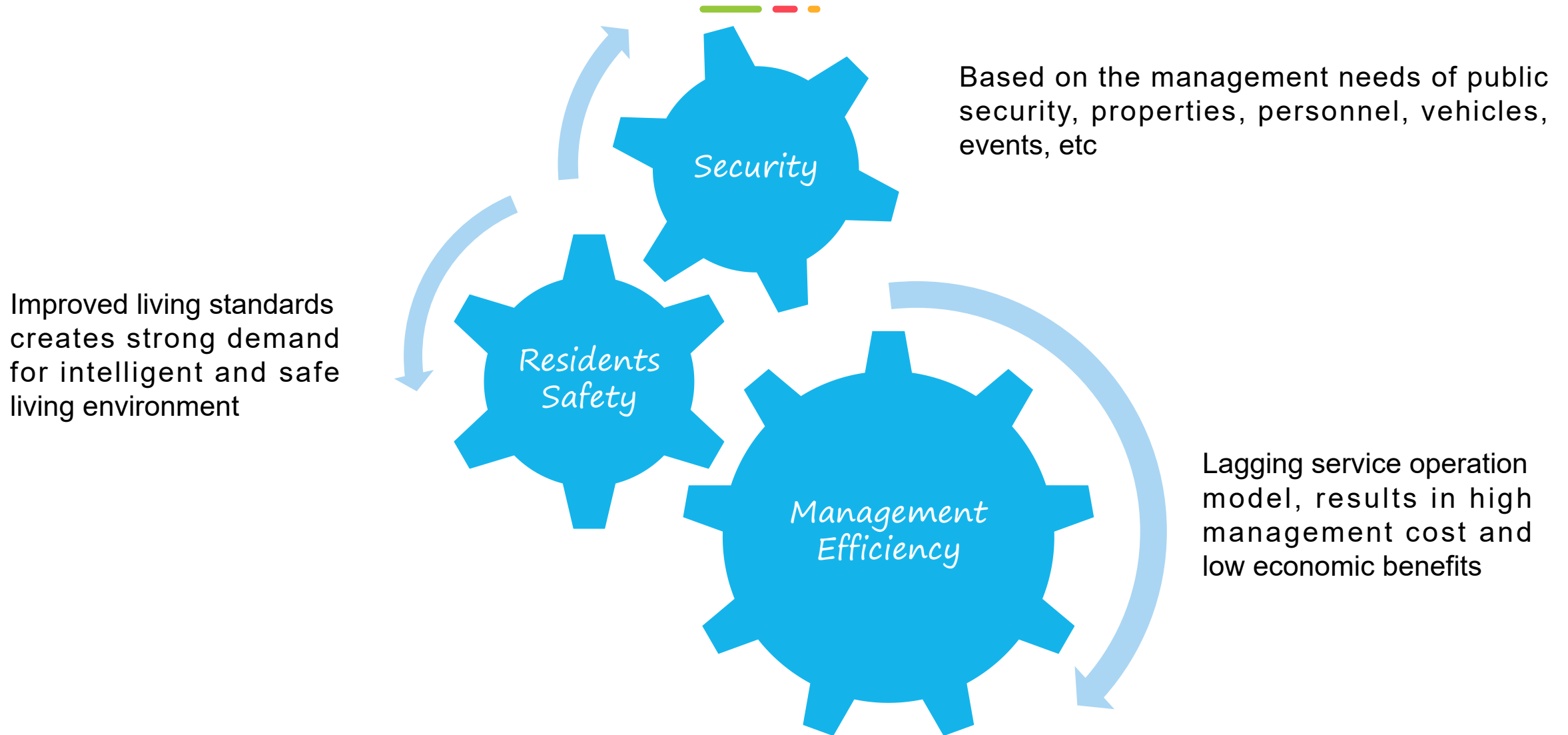
SMART INTEGRATION DONE SMARTLY

ChinoInt is positioned to be a System Integrator for Smart Building and Smart City solutions.
ChinoInt masters the IoT technologies such as Protocol Standards, Hardware, Software solutions, Big Data, AI, etc.
The aim is to integrate them into a single system, in order to offer a total solution to our customers.
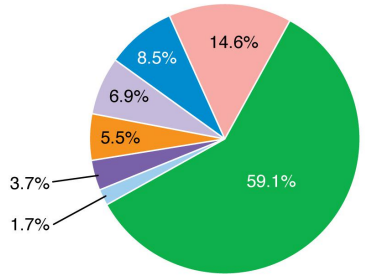
Requirement Analysis

Three Requirements

Security

Based on the management needs of public security, properties, personnel, vehicles, events, etc

Residents Safety

Improved living standards creates strong demand for intelligent and safe living environment

Management Efficiency

Lagging service operation model, results in high management cost and low economic benefits

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Pain Points

Complex population composition

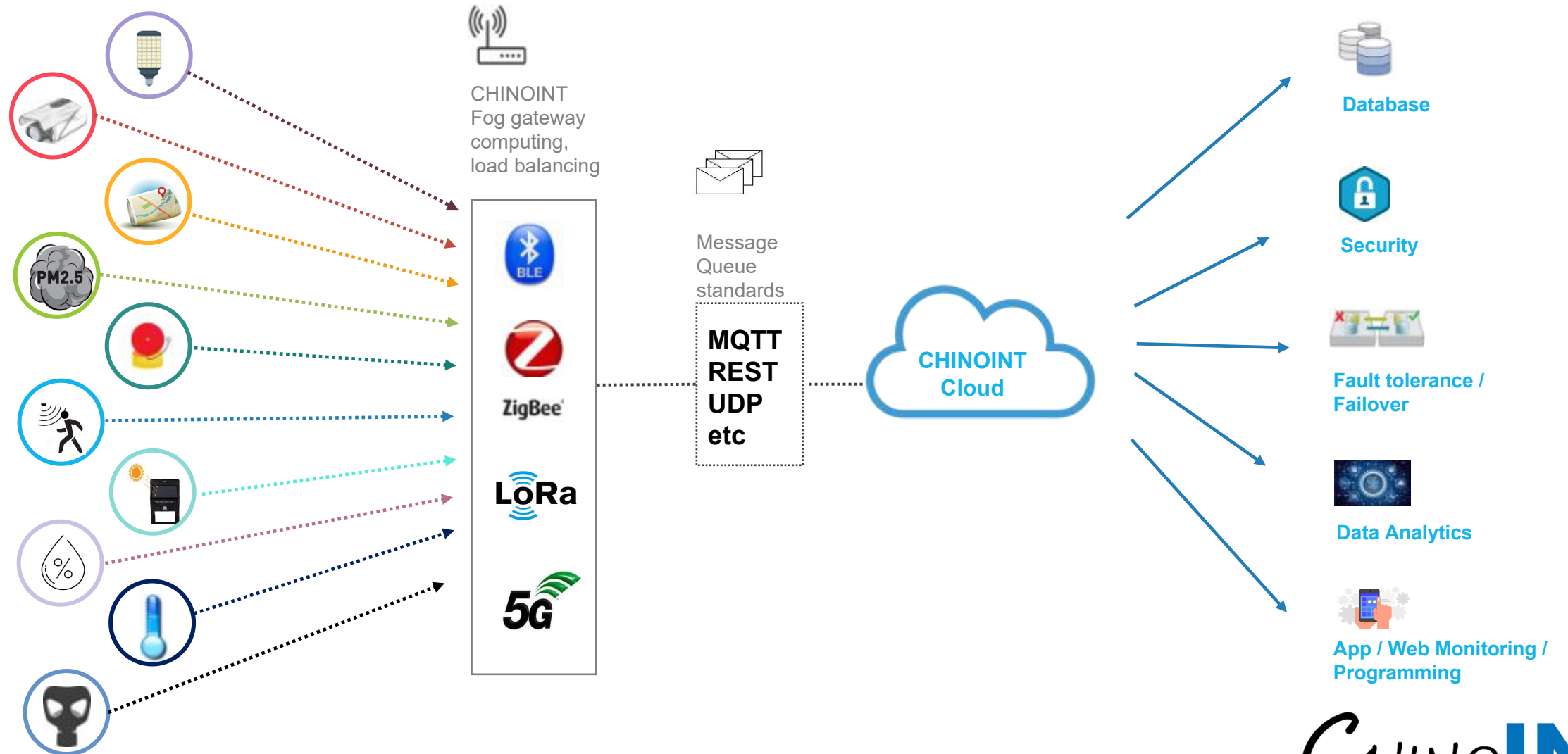Lagging management style and methodologies
Lowers efficiency

Lack of dynamically access control
Raise management difficulities

Traditional access control methodology
Easy identity stolen

Solution

ChinoInt : IOT PLATFORM ILLUSTRATION

Video Analytic

ChinoInt is integrating the top Video Analytic solution

This solution is selected the best in class, and written into the 人工智能标准化白皮书（2018版）

Strength
- **Low system requirement: i7, 4 core, 16G RAM**
- **Fast recognition: 0.6s in 200,000 database**
- **High accurate rate: >98% in 200,000 database**

Beating the competition
The below chart is from a real project, and represents general result

ChinoINT	Nxx	Cognxtxc
93.2%	91.4%	89.5%

人工智能标准化白皮书

（2018 版）

指导单位：国家标准化管理委员会工业二部
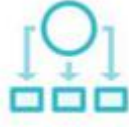
编写单位：中国电子技术标准化研究院

二零一八年一月

Solution Plot

Data acquisition

Through intelligent access control, monitoring, car gates, service platforms, etc., complete intelligent and dynamic data collection of people, houses, and vehicles in the jurisdiction.

Relationshipal Graph Analysis

Obtain all data of people, cars, and houses, and intelligently analyze the corresponding relationship between of people, cars, and houses to achieve data refinement

Collection of travel records

Collect the dynamic information of each household's entry and exit, grasp their living conditions, travel conditions

Vehicle control

Capturing devices to capture license plate, car model, to achieve vehicle monitoring, license plate check, and vehicle collision analysis

Blacklist Monitoring

Effective statistics data and control on the access of community-focused personnel

Information Management

Through information management, reduce disturbance and conflicts and raise efficiency

Solution Composition

Establishment of a household information database

Set up a household information database based on data collection of basic information of the residence, face features, etc

Application of face recognition technology

Realize access control based on facial recognition, solve the problem of transferring, losing of access cards, to avoid intrusion, and upgrade service to facial access control
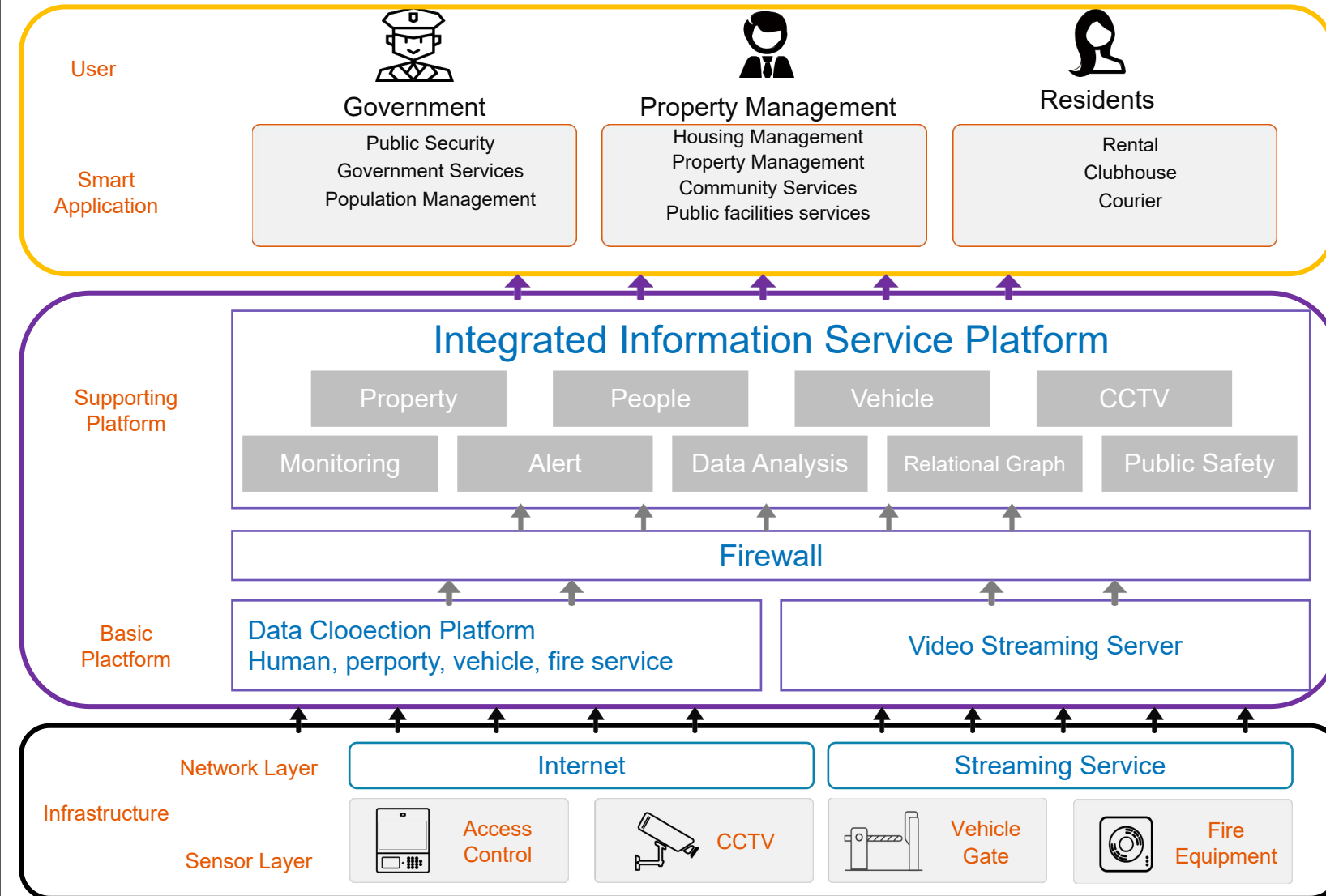
Visitor authorization

Landlords can grant access rights to visitors or tenants at any time, solving the dynamic management of access rights for visitors and temporary guests during the time period

4.智能抓拍分析

接入出入口门禁、人脸抓拍设备， 实现出入

过程动态人脸识别并记录 证据，实现同行、

尾随人员分析。

Topology

User

Government
- Public Security
- Government Services
- Population Management

Property Management
- Housing Management
- Property Management
- Community Services
- Public facilities services

Residents
- Rental
- Clubhouse
- Courier

Smart Application

Supporting Platform

Integrated Information Service Platform

| Property | People | Vehicle | CCTV |

| Monitoring | Alert | Data Analysis | Relational Graph | Public Safety |

Firewall

Basic Plactform

Data Clooection Platform
Human, perpory, vehicle, fire service

Video Streaming Server

Infrastructure

Network Layer
- Internet
- Streaming Service

Sensor Layer
- Access Control
- CCTV
- Vehicle Gate
- Fire Equipment

Data aggregation platform

Gathering community security data

Multi-dimensional data such as people, houses, and cars are collected through terminals such as cloud access control, monitoring, parking systems, and smart homes.
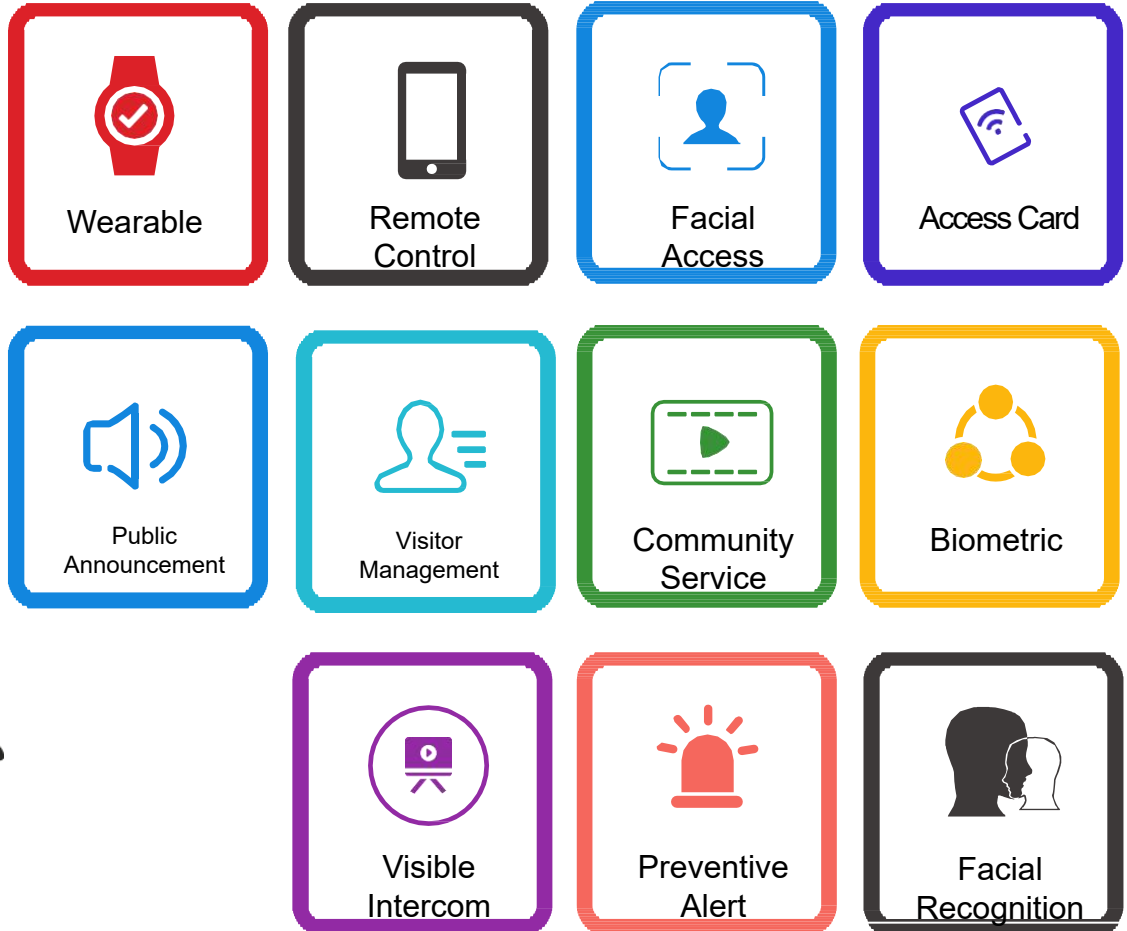
Integrated Information Service Platform

Building an intelligent service platform
Based on the data of the convergence platform, combined with AI technologies such as portrait recognition and video structured analysis, it provides real-time and effective data service support for relevant government departments.

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Smart Terminal

The basic element of a safe community, a community access control system with intelligent door opening, video intercom, high-definition binocular night vision photography, visitor photo, and face recognition. Combine AI surveillance to create a new experience in safe travel and living.

Wearable	Remote Control	Facial Access	Access Card
Public Announcement	Visitor Management	Community Service	Biometric
Visible Intercom	Preventive Alert	Facial Recognition	

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Vehical Gate

Vehicle gates are installed at the entrances and exits of the residential area. Provide parking payment, vehicle information tracking, license plate recheck, etc.
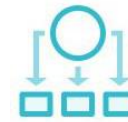

Vehicle Management

License Plate Recheck

Payment Management

Parking Lot Management

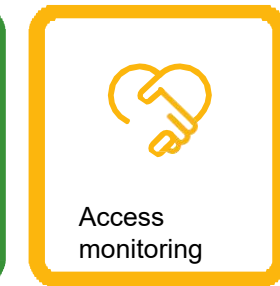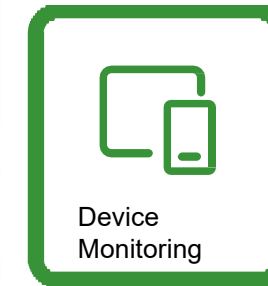Relational Graph

Surveillance

Data Platform

Real Time

10 million concurrency

Safe & controllable

Data Governance

Abnormal Warning

Unified Protocol

Multiple Scene

Data security, fast access, fast application

Data Platform

The data aggregation platform is based on the Internet of Things and aggregates the data of security terminals. It solves the problem of customer's application and data connection of front-end equipment. It can implement a unified interface of dozens of types of data, and realize the rapid access of "sensing data" for smart communities and scene application

Device Monitoring

Access monitoring

Visible Data

Access Management
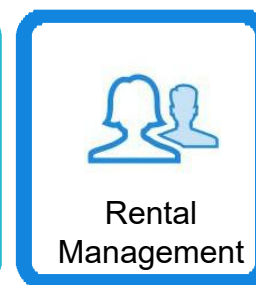
Alert

APP for Landlord

The landlord assistant app is convenient for renting landlords to manage the renting and selling of houses, and the tenants 'access control authorization. In the future, access to the credit system will bring more convenience to the construction of a safe community.
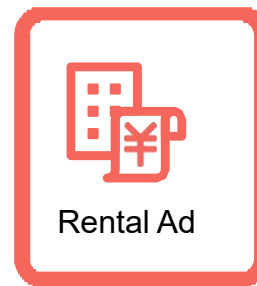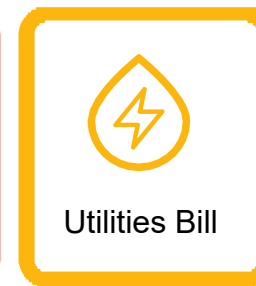
| Access Authorization | House Management | Rental Management |
| Rental Ad | Utilities Bill | Credit Management |

APP for Property Management

The Property Management Assistant is a mobile terminal service for the convenience of property management community security. Property or community security guard can perform convenient operations such as remote access control, visitor tracking, early warning of abnormal conditions in the community, community security inspection, and equipment patrol through the app.

Remote Access

Visible Intercom

Visitor Management

Remote Office

Patrolling

Device Check

For more information,
please feel free to contact us:

sales@chinoint.com

www.chinoint.com