

Digital Resilience, Smart Empowerment, Sustainable Future



Introduction

Chunghwa Telecom is participating in the Smart City Summit and Expo 2025 guided by its core principle of "Digital Resilience, Smart Empowerment, Sustainable Future." CHT will showcase digital innovation and advanced technologies, driving smart cities to a new era of sustainable development.

At this year's expo, Chunghwa Telecom integrates 5G innovative services with ICT technologies, offering a comprehensive digital resilience solution covering networks, systems, and cybersecurity. Focusing on the key areas of smart transportation, AI-driven smart applications, ecosystem co-creation and empowerment, Net Zero transition, and smart cities, CHT is committed to driving industrial transformation and upgrading to build future cities that embody both technological advancement and sustainable values.

Chunghwa Telecom will continue to drive technological innovation, leveraging digital resilience and smart innovation as its foundation. In collaboration with industry partners, the company aims to create a new paradigm of smart cities for a sustainable future.

Taipei

3/18 Tue. - 21 Fri.



Smart Transportation

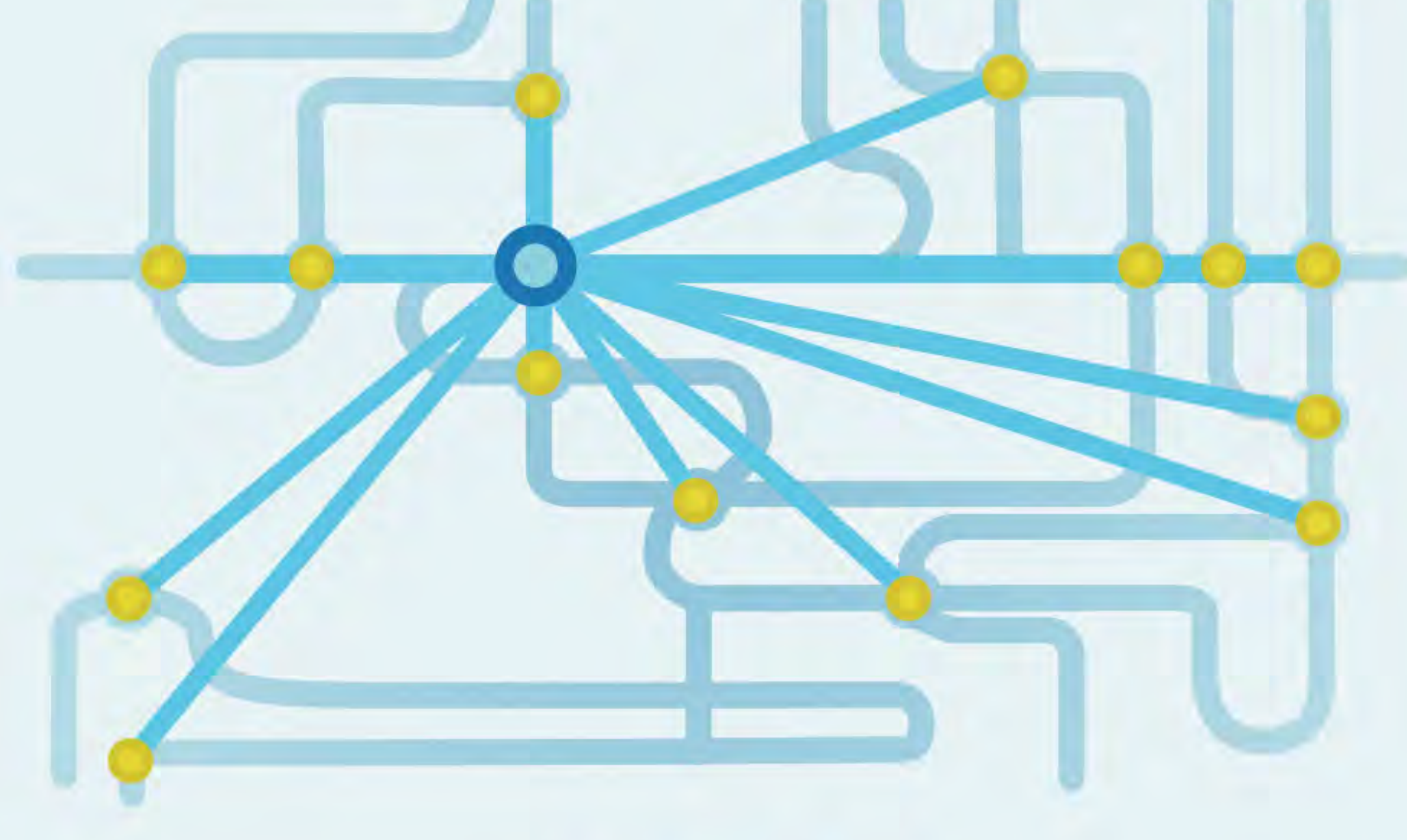
Telecom Big Data on Carbon Emission Analysis

A New Era for Net Zero Cities, Mobile Signaling Launches a New Future of Carbon Reduction



Chunghwa Telecom uses mobile signal triangulation technology to convert mobile signal data into traffic data after de-identification. This technology has been developed into a data-driven, big data mobile signal traffic platform which provides real-time road conditions for major roads across Taiwan, using deep learning for traffic prediction. Big data analysis is also used for vehicle and travel path analysis, which is then applied to estimate urban carbon emissions and support transportation management agencies in assessing the effectiveness of carbon reduction policies.

BEFORE



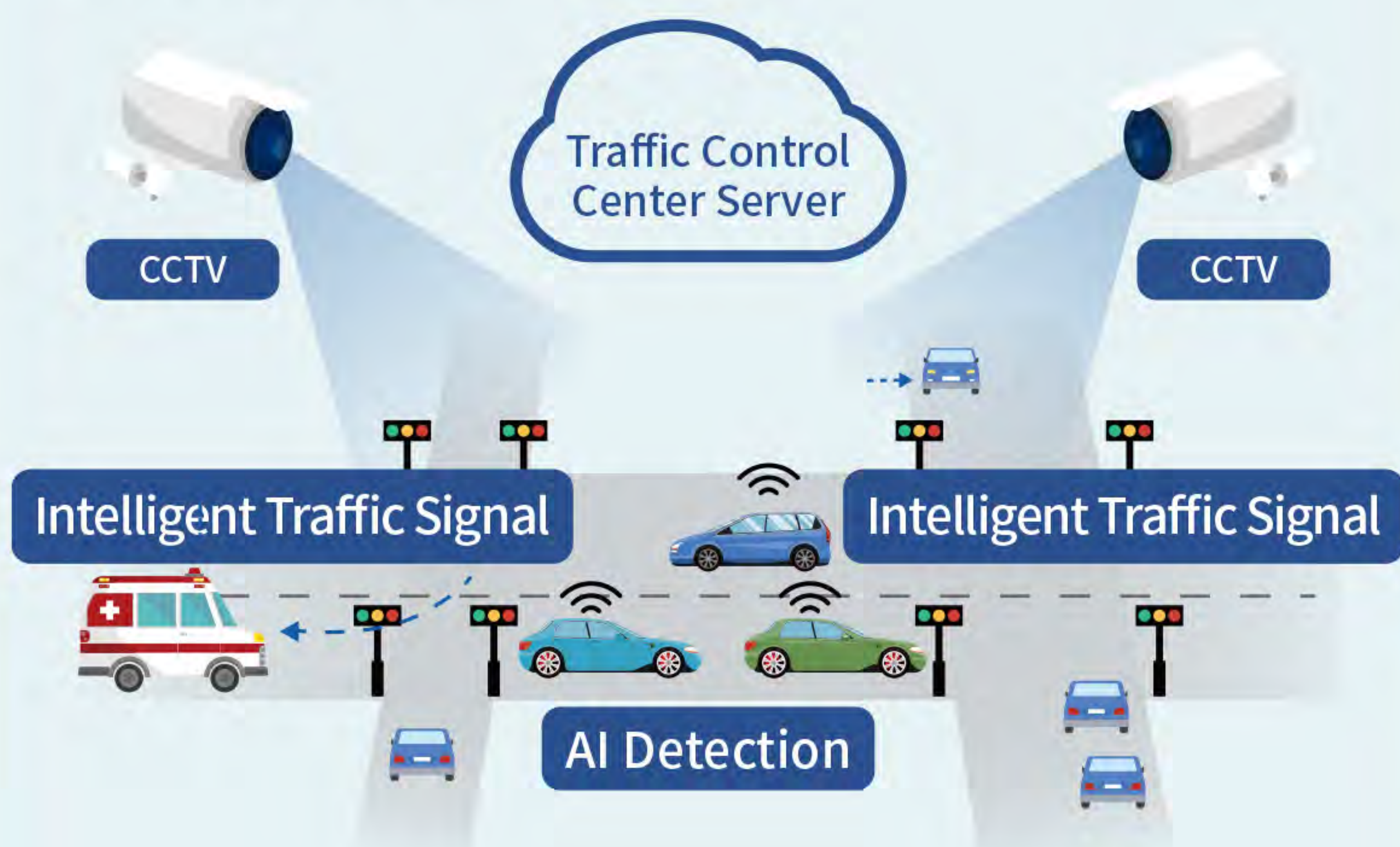
AFTER



Intelligent Traffic Management System

Dynamic signal strategies developed using AI Image Recognition ease traffic congestion and ensure smoother traffic flow!

AI imaging technology for traffic volume surveys, including average speed, traffic volume, volume of turning traffic at intersections, red light waiting stop time rates, and green light usage rates, are used to select traffic volume indicators based on intersection characteristics to develop dynamic signal control strategies and traffic signal plans that respond to traffic conditions in real time based on micro-level intersection volume makes traffic management more flexible, addressing sudden traffic surges, and easing congestion. Dynamic signal control also takes into account emergency vehicles, including ambulances and fire trucks. Configured lights facilitate passage of emergency vehicles through intersections, improving the efficiency of rescue and disaster relief.



5G Intelligent Intersection Safety Systems

5G Intelligent Intersection Safety Systems

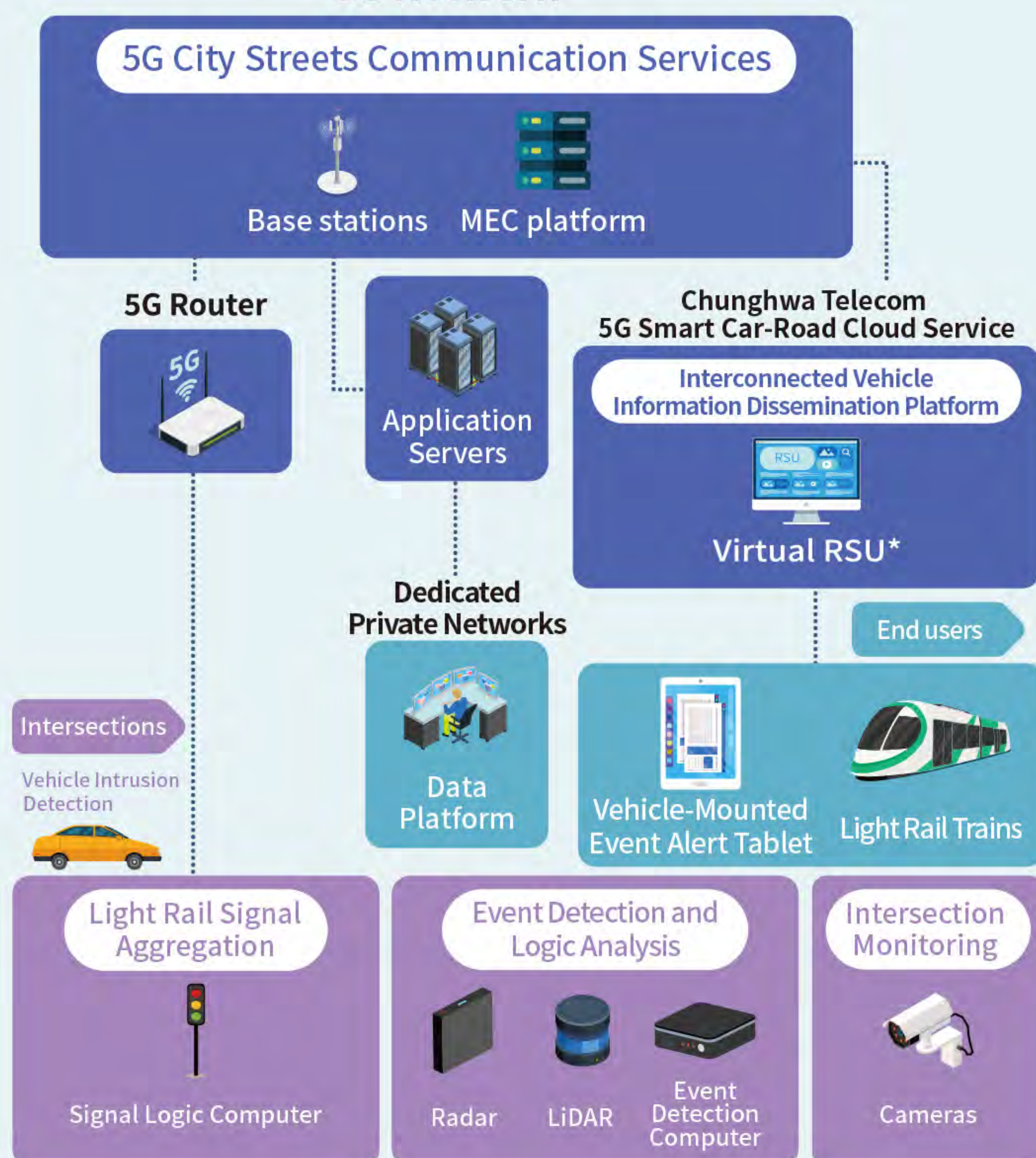
Because light rail tracks are close to urban roads, drivers frequently mistakenly cross tracks or fail to observe signal violations, resulting in collisions.

By installing LiDAR and radar equipment, car and motorcycle movement are continuously monitored, and predicted intersection violation events are immediately broadcast to the light rail trains.

- This effectively addresses the previous blind spots of light rail conductors and helps them better understand traffic situations at intersections.
- Before arriving at an intersection, light rail drivers receive advance information about the intersection's current signal light status and the remaining seconds, which assists them in making informed speed decisions.

Network and Application Service Terminal

5G Network



AI-Ready Data Center Solutions

A professional data center consulting team with over 20 years of experience in data center operations creating customized AI-ready green data centers tailored to your needs.

Chunghwa Telecom offers customized AI-ready green data center solutions, dedicated to helping businesses overcome the complex challenges of on-premises data center deployment and construction, and enabling clients to focus on developing their core business. Many enterprises face challenges during data center deployment, such as limited IT expertise in construction design, water-cooling systems, and power backup. With over 20 years of experience in data center construction and operations, Chunghwa Telecom provides comprehensive solutions and professional support to address these challenges.

Our AI-ready green data center design focuses on meeting the specialized demands of high-density AI computing power, including advanced cooling systems, efficient power distribution, and reliable power backup mechanisms. With flexible modular designs, the data centers can scale alongside business growth, meeting the demands of large-scale computing and data processing. Additionally, the application of predictive maintenance technology enables early detection and correction of equipment abnormalities, ensuring system stability and reducing operational risks.

Chunghwa Telecom offers a comprehensive one-stop service, covering data center planning, design, construction, and project management, ensuring that every detail meets enterprise requirements. The principles of green energy are integrated into the overall design, helping enterprises achieve sustainable development through efficient energy use and reduction of carbon emissions. Our goal is to support enterprises achieve high performance, low-carbon sustainability and stable operations, while delivering a real competitive advantage for our customers.

● 4 Tailored Solutions to Meet AIDC's High Power Density Needs

Solution	PUE	Power Density (per cabinet)	Application
Immersion Cooling	1.1	100 KW	LLM/AI/ML Development
Direct Liquid Cooling	1.2	80 KW	LLM/AI/ML Development
Water-Cooled Backplane	1.3~1.4	30 KW	AI/Cloud Computing Service
Fan Wall (or In-row cooler)	1.4~1.5	10 KW	AI Application Implement/ Research

Smart Legal Assistant

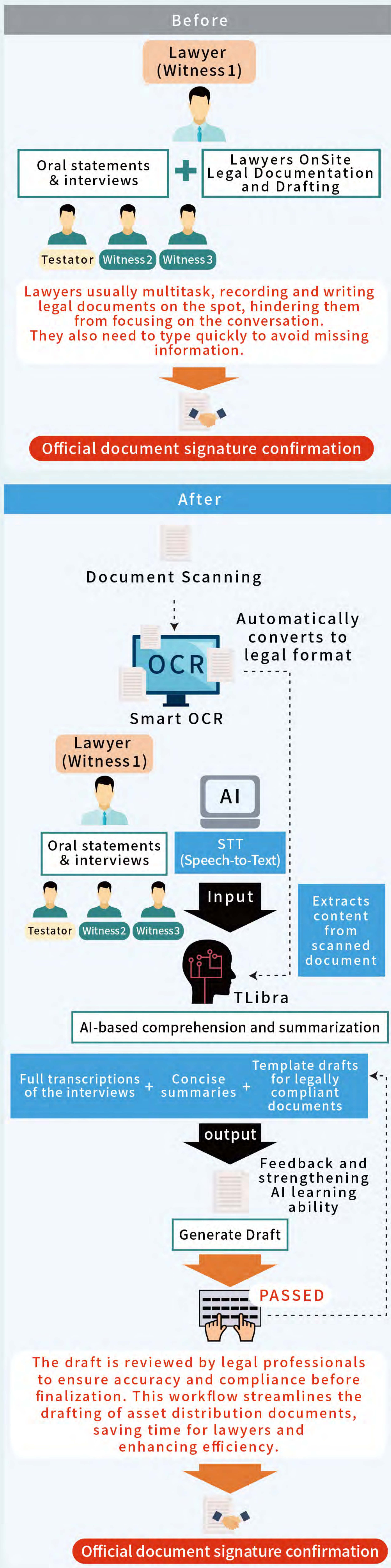
This system utilizes Speech-to-Text (STT) technology for automated transcription of legal documents, supports OCR-based document recognition, and employs an AI-powered legal language model (LLM) to rapidly generate legal documents.

Smart Applications

The AI assistant processes recorded interviews between lawyers and testators, automatically generating a ghostwritten draft of a will. This reduces the time lawyers spend on meeting notes and document preparation, allowing them to focus more on conversations and client interactions.

Technical Features

- ✓ AI-driven speech-to-text conversion instantly transcribes interview recordings with high accuracy.
- ✓ An intuitive, user-friendly interface guides lawyers through the interview process efficiently.
- ✓ Context-aware AI intelligently interprets discussions between clients and lawyers, extracting and summarizing key legal information.
- ✓ Automated summarization generates a professional first draft of legal documents in seconds.



Smart Customer Service

Chunghwa Telecom has developed a multi-turn customer service chatbot that leverages AI-powered Q&A and knowledge management technology to deliver fast and accurate responses.

Features

- ✓ Supports multiple access channels (web, social media, telephone) while maintaining a unified knowledge base.
- ✓ Over 15 Q&A models with a recognition rate exceeding 90%.
 - Contextual Q&A: Automatically associates relevant context within conversations.
 - Task-based multi-turn Q&A: Resolves user inquiries through structured dialogue flows.
- ✓ Comprehensive AI-driven knowledge management system with over 20 functions.
 - Visual AI workflow editor: Enables rapid creation of multi-turn dialogue scripts.
 - Real-time update mechanism: Implements knowledge updates within 10 minutes.
- ✓ Reduces knowledge base development time by 70% through generative AI assistance.

Success Stories

- ✓ Chunghwa Telecom Customer Service
 - Text-based chatbot: Handled over 20 million interactions (2019–2024), achieving an 80% self-service completion rate and a satisfaction score of 4.7/5.
 - IVR navigation system: Facilitated over 17 million successful self-service authentications since 2020, reducing customer service response time by over 19 seconds and achieving cost savings equivalent to approximately 45 full-time agents.
- ✓ Industry Applications
 - Reservation assistant for Feastogether, Taiwan's largest buffet restaurant group.
 - Registration assistant for Xin O Beauty Clinics.
- ✓ Government & Enterprise Solutions
- ✓ Deployed in organizations such as the Ministry of the Interior, the Ministry of Economic Affairs, and Kerry Group, with over 10 successful implementations.

Awards

- ✓ Won the National Brand Yushan Award
- ✓ Won the TCCDA-CSEA Award for Best Intelligent Customer Service System Application
- ✓ Won the Taiwan Innovation Technology Expo Invention Competition-Patent Gold Medal/Silver

Text Customer Service



I want to check iPhone discounts.

Hello. The latest plan is as follows:



Voice Customer Service



I want to apply for international roaming.

Which country are you going to?



Outbound Inquiry Telemarketing

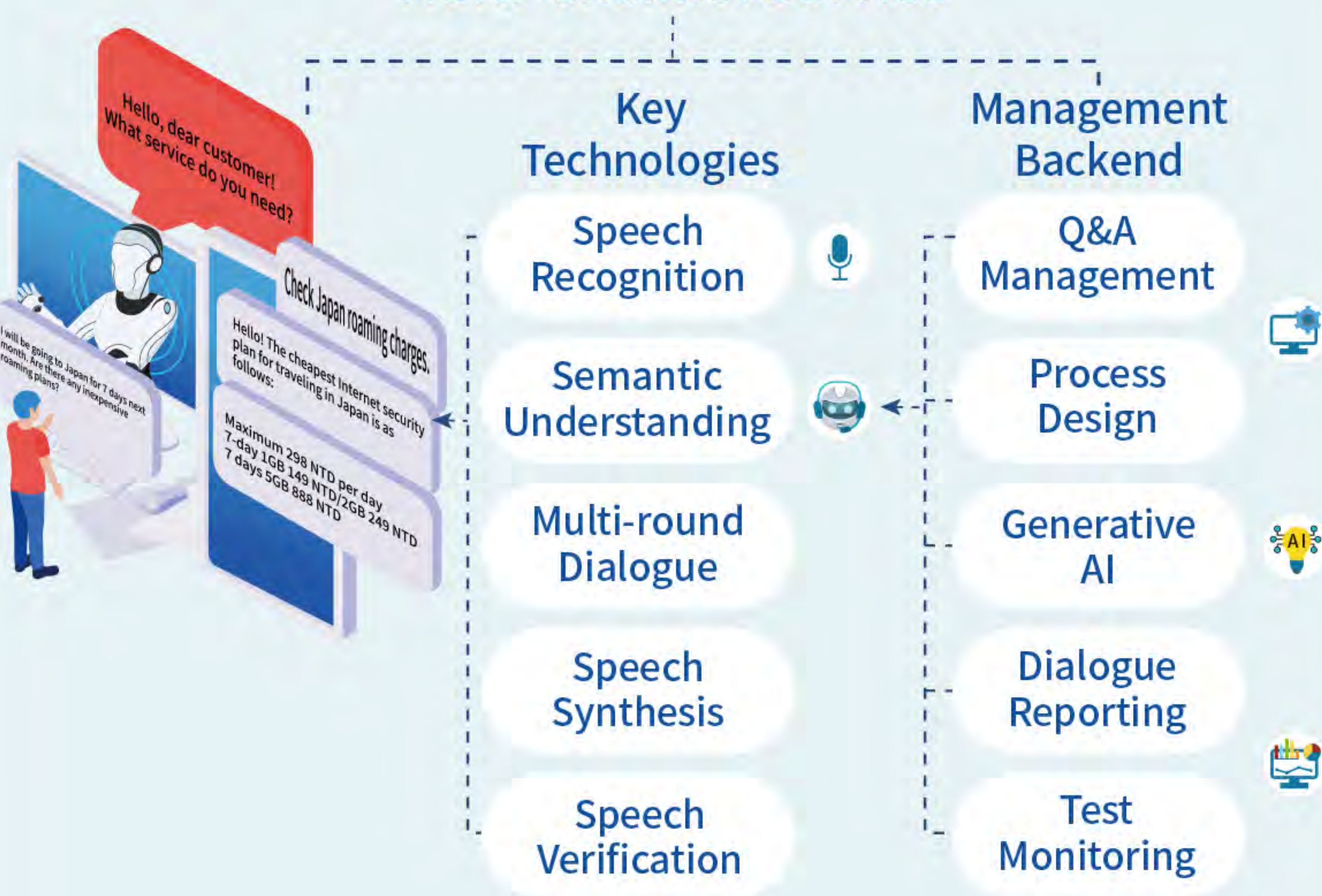


How would you rate your satisfaction with the customer service staff?



About 4 points.

Multi-Channel Service



AI Multi-Function Law Enforcement

Leading the industry in providing diverse AI-powered video recognition services for transportation and environmental protection, enhancing road safety and environmental quality.

Chunghwa Telecom provides multifunctional enforcement technology services and independently develops AI video recognition technology for use in a variety of traffic and environmental enforcement settings.

Services include identifying alerted exhaust pipes on motorcycles, truck bed identification, haphazard garbage disposal, recognizing the behavior and license plates recognition, all effectively assisting government environmental agencies in monitoring noise, waste and soil contamination.

In the case of identifying alerted motorcycle exhaust pipes, in response to 2025 environmental regulations, exhaust pipe and license plate recognition technology are used to identify non-original or non-certified exhaust pipes and to provide the associated license plate information, allowing environmental protection agencies to effectively secure evidence and increase the efficiency of evidence collection, thereby improving environmental quality.

A new type of environmental violation involves detecting truck cargo beds and detection of black net covering to identify video of gravel trucks, trucks covered but with damaged nets, and trucks with uncovered cargo.

It helps the time and manpower consuming burden of traditional video verification by authorities and improves the efficiency of government operations.

Hi-Fence technology uses lightweight embedded AI edge computing to detect people, vehicles, and people with vehicles in region of interest(ROI), and sends real-time alerts via instant messaging software, raising the efficiency of surveillance.

Chunghwa Telecom's multi-functional enforcement provides a variety of environmental and traffic enforcement solutions, improving road safety and environmental quality.

Identifying alerted motorcycle exhaust pipes



Cargo covering net identification for environmental enforcement



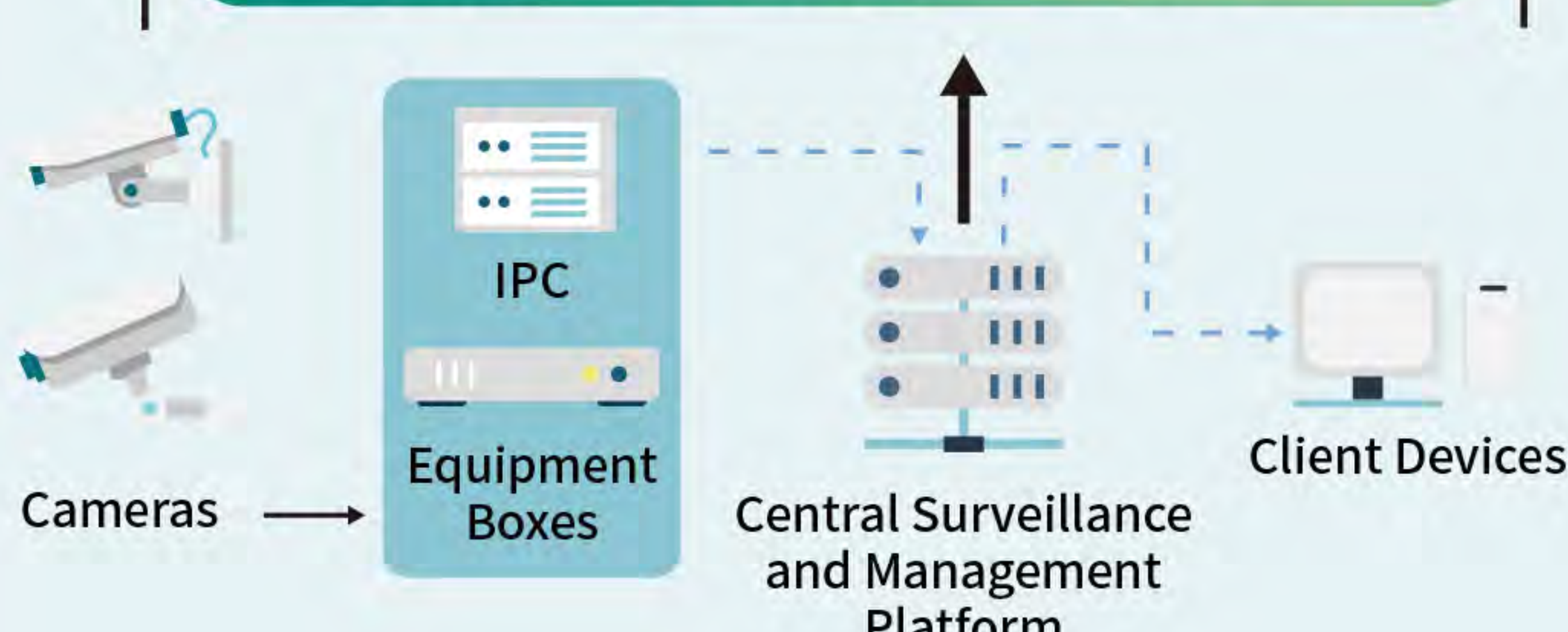
Detection of traffic violations



AI Hi-Fence technology (For people and vehicles)



AI Multi-Function Law Enforcement



A New Vision for Future Disaster Relief

- Intelligent Networked Fire Fighting Robot Command and Management System
 - ✓ Combined with the first firefighting robot made in Taiwan, the Mobile AI Imagine Service provides **one-stop low-latency action imaging and multi-IoT sensor information convergence through its highly integrated hardware and software.**
 - ✓ Customized micro-terminal hardware providing **mobile communication, image streaming, thermal image access, electrical power/temperature detection, positioning, tilting and intercom functions** is embedded in the fire-fighting robot.
 - ✓ Provides an APP for cross-platform operations that can monitor **multiple locations simultaneously.** This APP facilitates on-the-scene transmission of fire images, thermal details, detected gasses and other environmental information to the on-site commander and disaster relief command center, enabling **quick response to disaster area** control and comprehensive efficient management of disaster area service command.
- AI Mobile Deployment System
 - ✓ With integrated 4G/5G multi-scene video equipment, the AI Mobile Deployment System provides **a comprehensive AI image command and management platform** that can manage various streaming image sources, receive real-time images, GPS coordinates, and AI recognition information. Display images from each source, coordinate information for each location, and real-time AI recognition results on the dashboard.
 - ✓ The comprehensive AI image command and management platform **supports mobile viewing,** allowing the central control center to no longer be limited to a fixed location.
 - ✓ Equipped with two-way voice communication and real-time event notification functions, achieving effective **real-time command and management.**
 - ✓ Different devices can be used according to different situations, such as easily deployable **wearable devices** that can be worn by personnel, or **mobile devices** that can be directly removed after use.
- Key Features
 - ✓ Efficient disaster relief command and management platform: **Cross-platform simultaneous monitoring** for real-time environmental information transmission and disaster control.
 - ✓ Mobile AI deployment: **AI image recognition, combined with two-way communication,** supports multi-scene integration and real-time event notification. This command and management platform also supports mobile viewing.

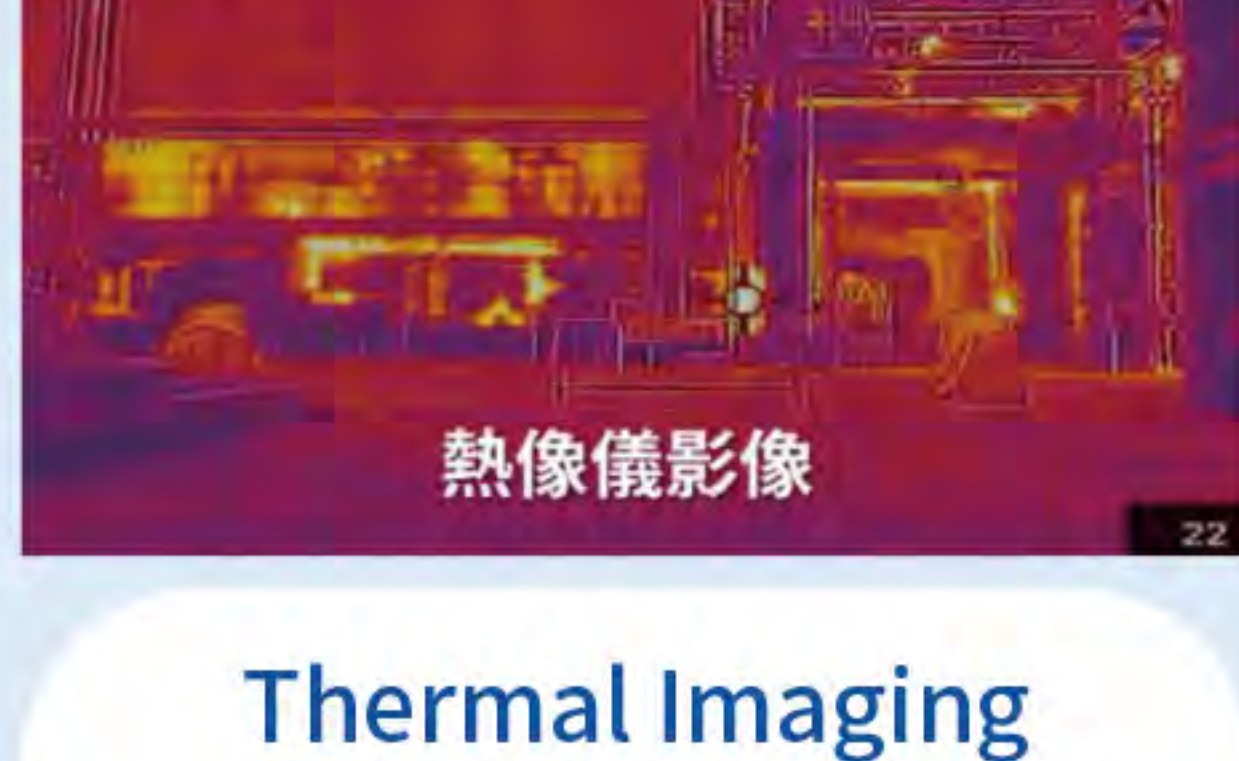
Intelligent Networked Fire Fighting Robot Command and Management System



Firefighting Robot Illustration



Command Center Interface (Web) Illustration



Thermal Imaging View Illustration



Standalone Control Interface (App) Illustration



Visible Light Imaging View Illustration

AI Mobile Deployment System



Wearable Camera



Panoramic Camera



HDMI Live Streamer



Mobile PTZ



Head-mounted Device



Miniature Camera

Product Features

- Unmanned Operation with Remote Control Capability
- AI Image Recognition Alarm
- Rapid Image Replay/-Time-Lapse
- GPS Location Tracking



Extended Reality Applications in Culture

XR and AI Converge to Build a New Vision of Virtual and Real Cultural Technology

“Qianlong Emperor Relics AI Interactive Guide”

Chunghwa Telecom has created a variety of successful ICT applications over the years for a range of museums as well as cultural tourism sites both at home and abroad. With the advance of AI technology, CHT continues to innovate and broaden the possibilities for cultural technology applications.

This exhibit demonstrates the integration of XR virtual characters with LLMs (large language models) using Narrative Design storytelling techniques to create game-style NPC (non-player character) missions. Through interactive discussion with the virtual character Emperor Qianlong, then completing designated tasks, visitors can learn about the cultural artifacts in each course level during the process of completing your game tasks. In addition to AI interactive dialogs, the exhibit also integrates visual recognition technology and near field communication (NFC) for interactive game props, creating cultural experiences with greater interactivity, educational value, and entertainment, and showcasing applications of innovative cultural technology.



5G Metaverse Innovative Applications

5G Metaverse Innovative Applications

In completing the National Development Council's Plan, Chunghwa Telecom has created the YoCity engagement automation platform with the three main pillars: events and exhibitions, commercial venues, and city guides as service verification and business model development scenarios. This platform includes the promotion of five major service applications: 3D event streaming, real-time modeling exhibition application services, Metaverse OMO Mall exhibition and sales, immersive somatosensory interaction, and 3D site digital collection modeling to achieve expansion and marketing promotion.

Establishment of 5G Network

Three Major Axes	Five Major Applications	Seven Large Venues
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Links

[YoCity Official Website](#)

[「YoCity」APP Google play](#)

[「YoCity」APP App Store](#)



The goal of Chunghwa Telecom's CHTLand is to create a metaverse platform that facilitates horizontal and vertical integration and alliances to establish a leading brand in Taiwan's metaverse ecosystem. Primarily comprised of internally developed technologies, including “avatar creation and virtual reality technology, voice-driven synchronization, virtual reality 3D real-time modeling and multi-user scene analysis, cloud rendering, and virtual currency payments.” Combined with 3D immersive experiences, CHTLand has created Taiwan's own metaverse services platform and smart applications, utilizing innovative technology to establish an open and interactive metaverse platform, metaverse content components and materials database, and 5G O-RAN private network application and communications.

CHTLand One Platform/ Three Application Scenarios/ Three Core Technologies

Three Application Scenarios

Settings	Content	Settings
Digital Twins	Metaverse Shows	Military Drills and Simulations

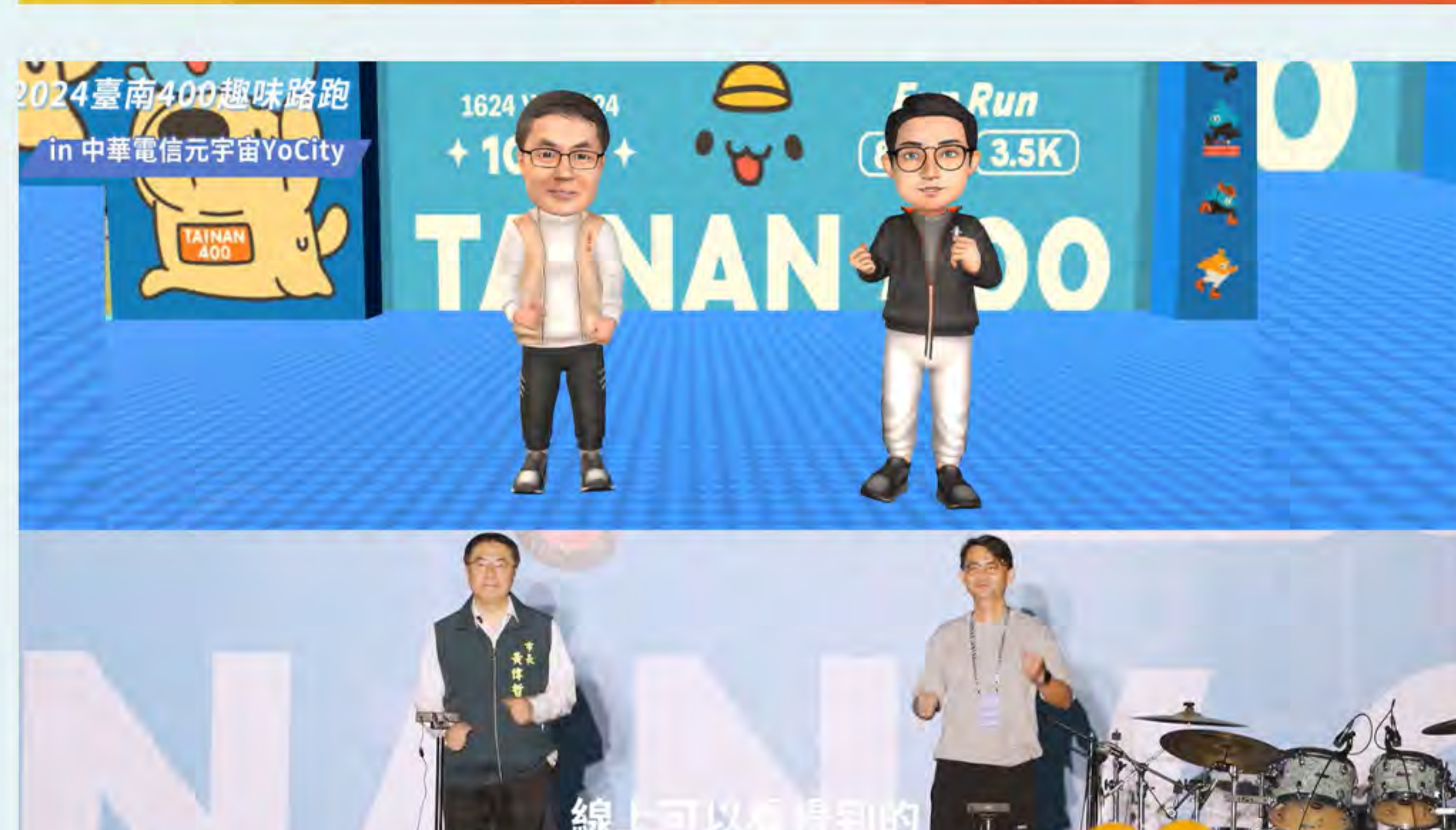
Three Core Technologies

AI Avatar Settings	Support	Content
Settings	edge computing and cloud rendering	e-wallet, ID verification, digital asset trading
Virtual avatar and 3D scenes		

One Platform

Support
CHTLand

- Dynamic visual capture technology
 - ✓ Visual AI is the core technology that drives virtual characters after analyzing the human body. It utilizes machine learning and computer vision technology to extract human motion information from real-world images, perform skeleton modeling, posture estimation, key point detection and other operations, ultimately mapping human posture to virtual character posture. In this way, high-precision, real-time human motion tracking and driving of virtual character operations can be achieved.
 - ✓ Utilizes avatar real-time dynamic visual capture technology, eliminating the need to wear any sensing equipment
 - ✓ Application case: 2024 Metaverse Marathon-Tainan 400 National Fun Run

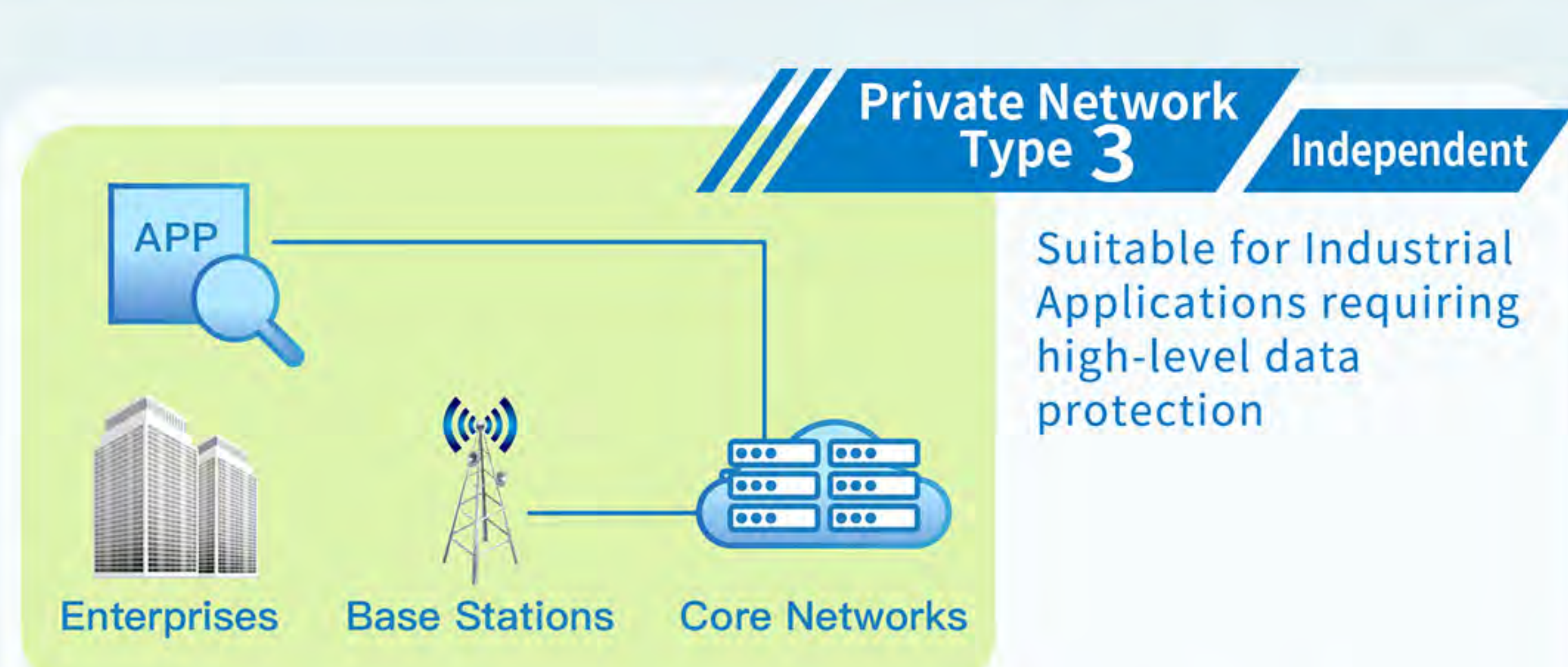
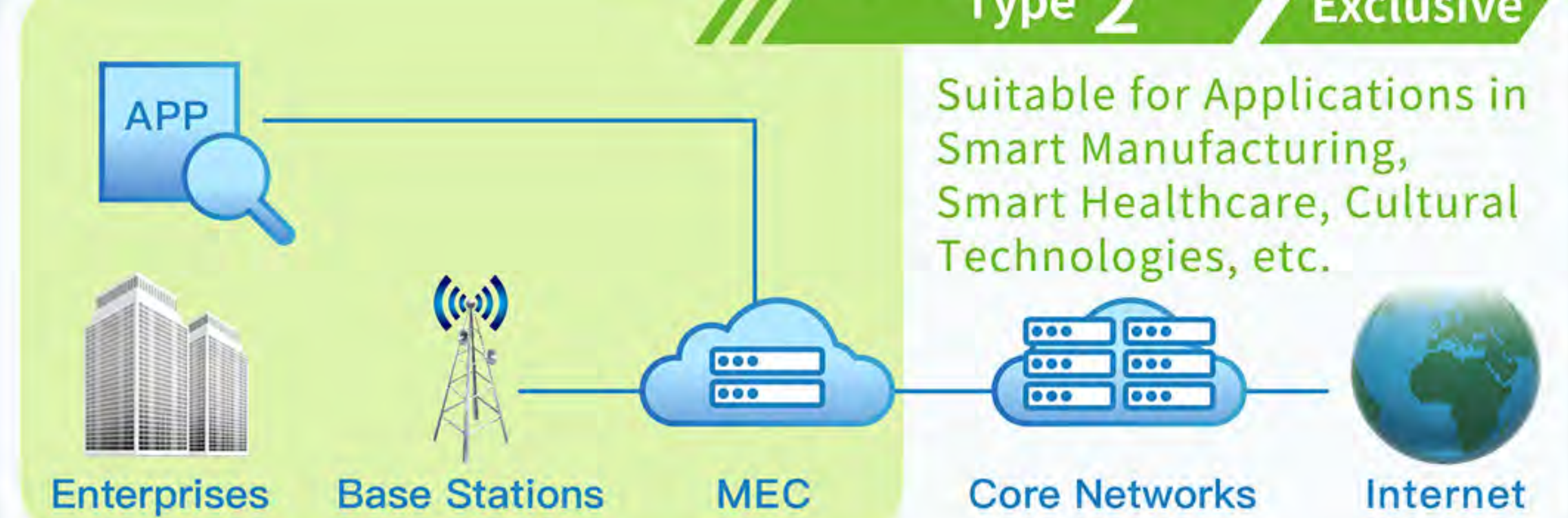
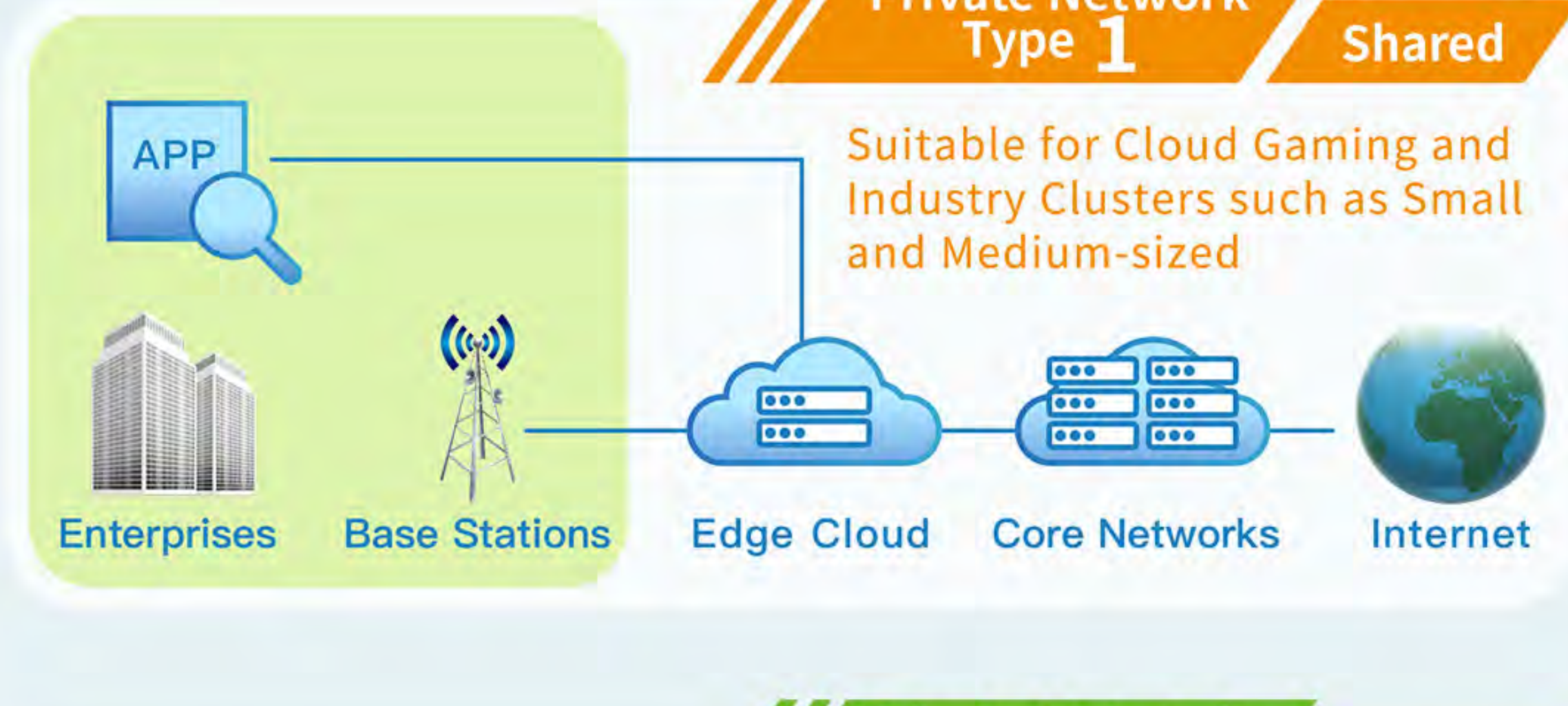


Private Network

Strengthening the resilience of communications networks, one-stop private network solution

Chunghwa Telecom's 5G private network supports enterprises in building dedicated mobile networks unaffected by public network congestion while meeting application service requirements for specific purposes such as high speed, low latency, and massive connectivity. Paired with mobile edge computing technology for local offloading, this significantly enhances information security. This solution also provides a one-stop private network that can connect to diverse networks (such as wired, Wi-Fi, and 5G) and enterprise application endpoints, and features integrated management capabilities for various brands of RAN (Radio Access Network), MEC (Multi-Access Edge Computing), and 5G Core. Industries served include smart manufacturing, smart healthcare, and cultural technology, among others, supporting companies navigating digital transformation to enhance their competitiveness.

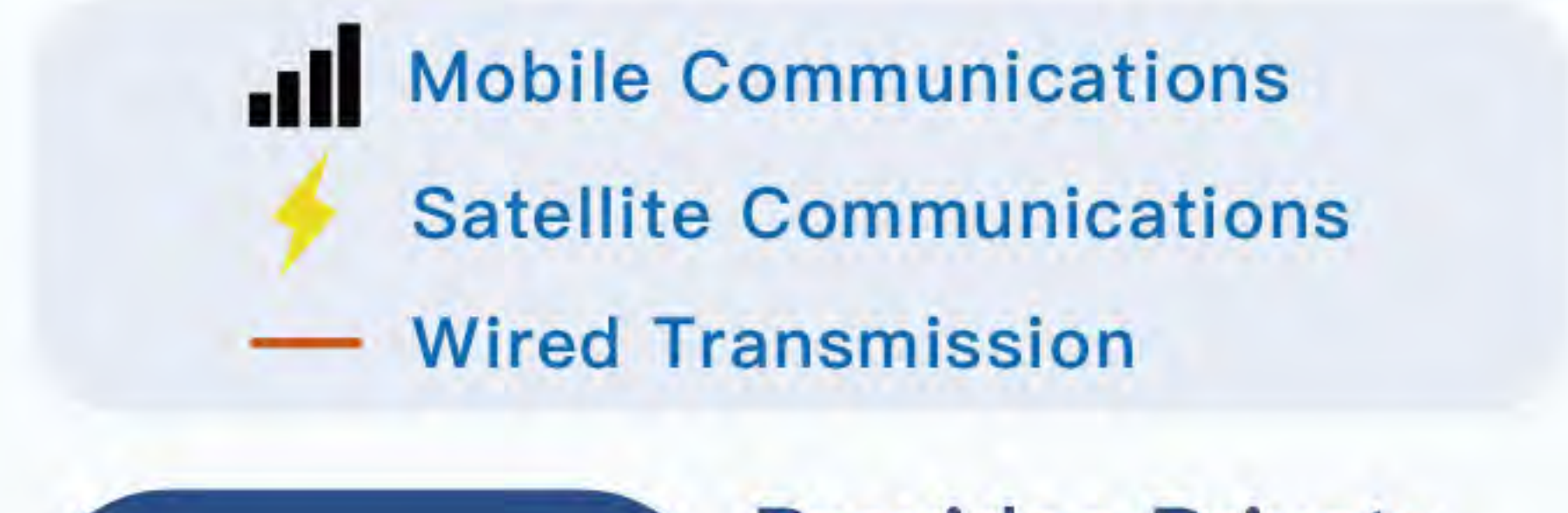
In response to the government's policy to strengthen communications resilience, Chunghwa Telecom has invested in research and development of mobile 5G private network solutions, and has successively launched large-scale vehicle-mounted 5G private networks with broader coverage and medium-sized portable 5G private networks with greater mobility. CHT has developed Taiwan's first native backpack 5G private network solution. The system can be carried anywhere with human power, supports voice and data services, enabling rapid deployment to support emergency communications. The solution significantly strengthens communications resilience and marks a great achievement in advancing Taiwan's 5G industry.



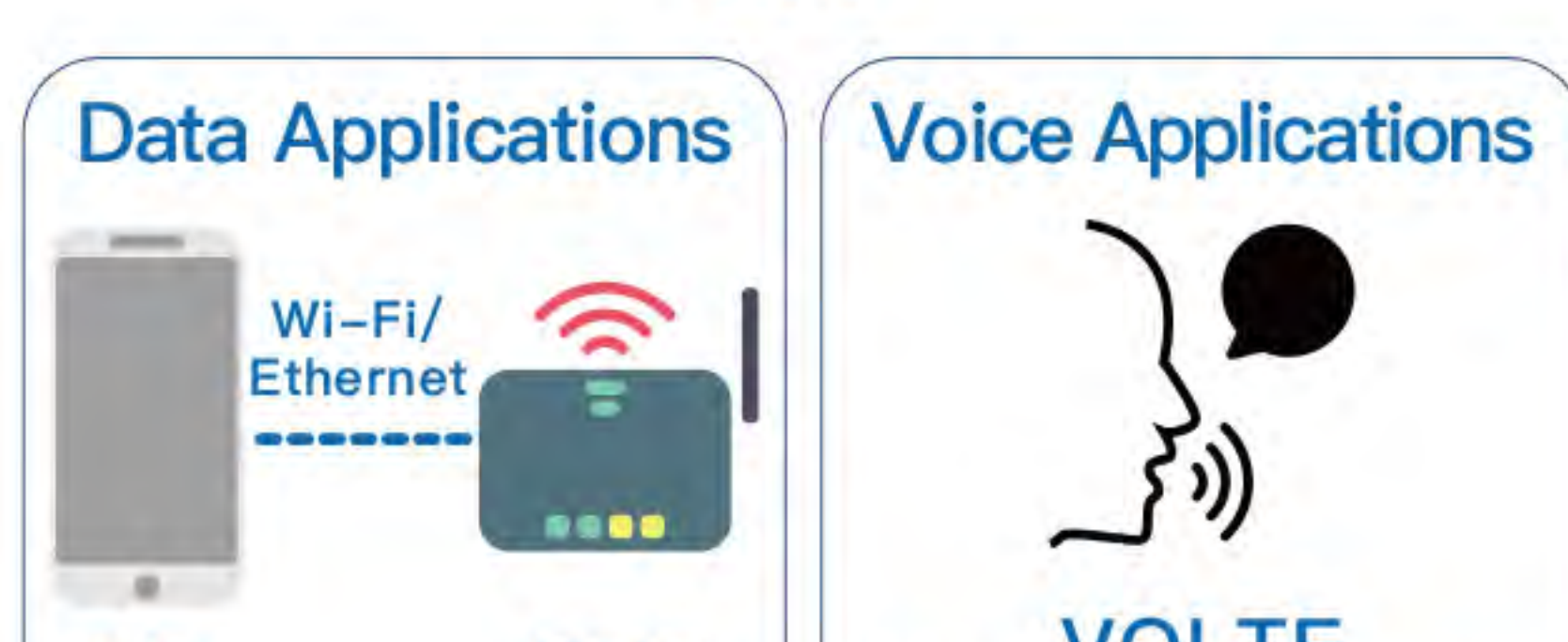
Lightweight Solution for Private Network Type 3

Portable Private Network Device
(Compatible with Suitcase and Backpack Use)

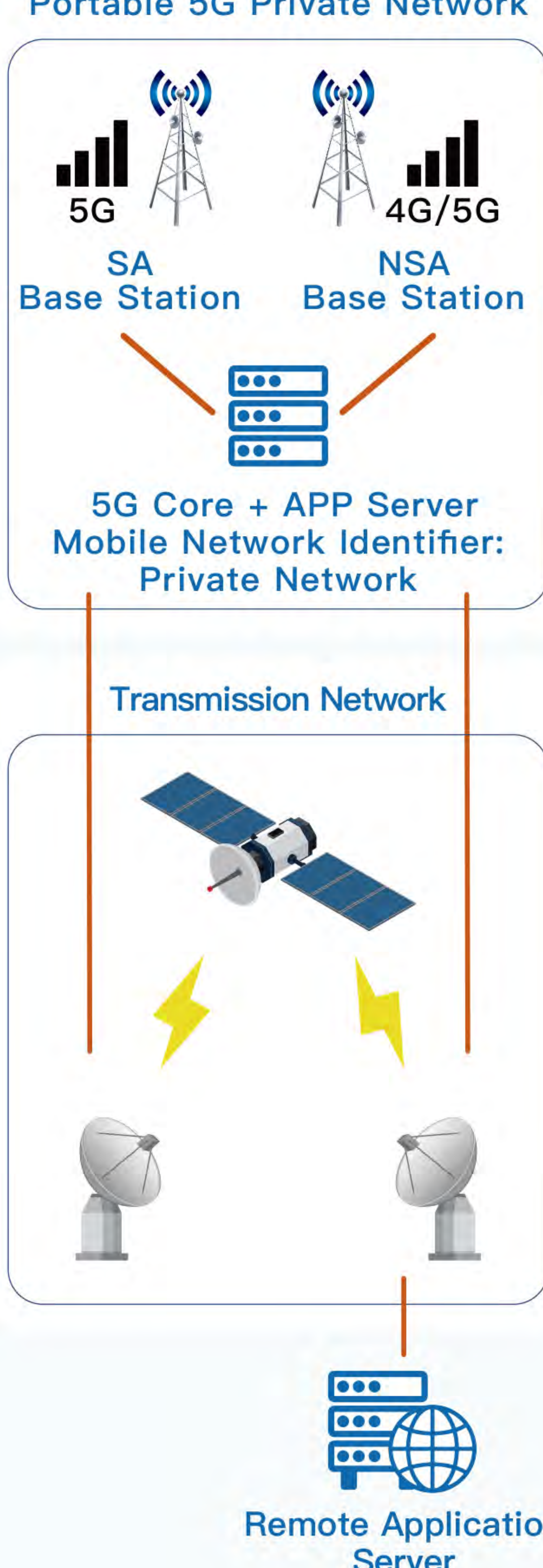
[More Info](#)



User



Portable 5G Private Network



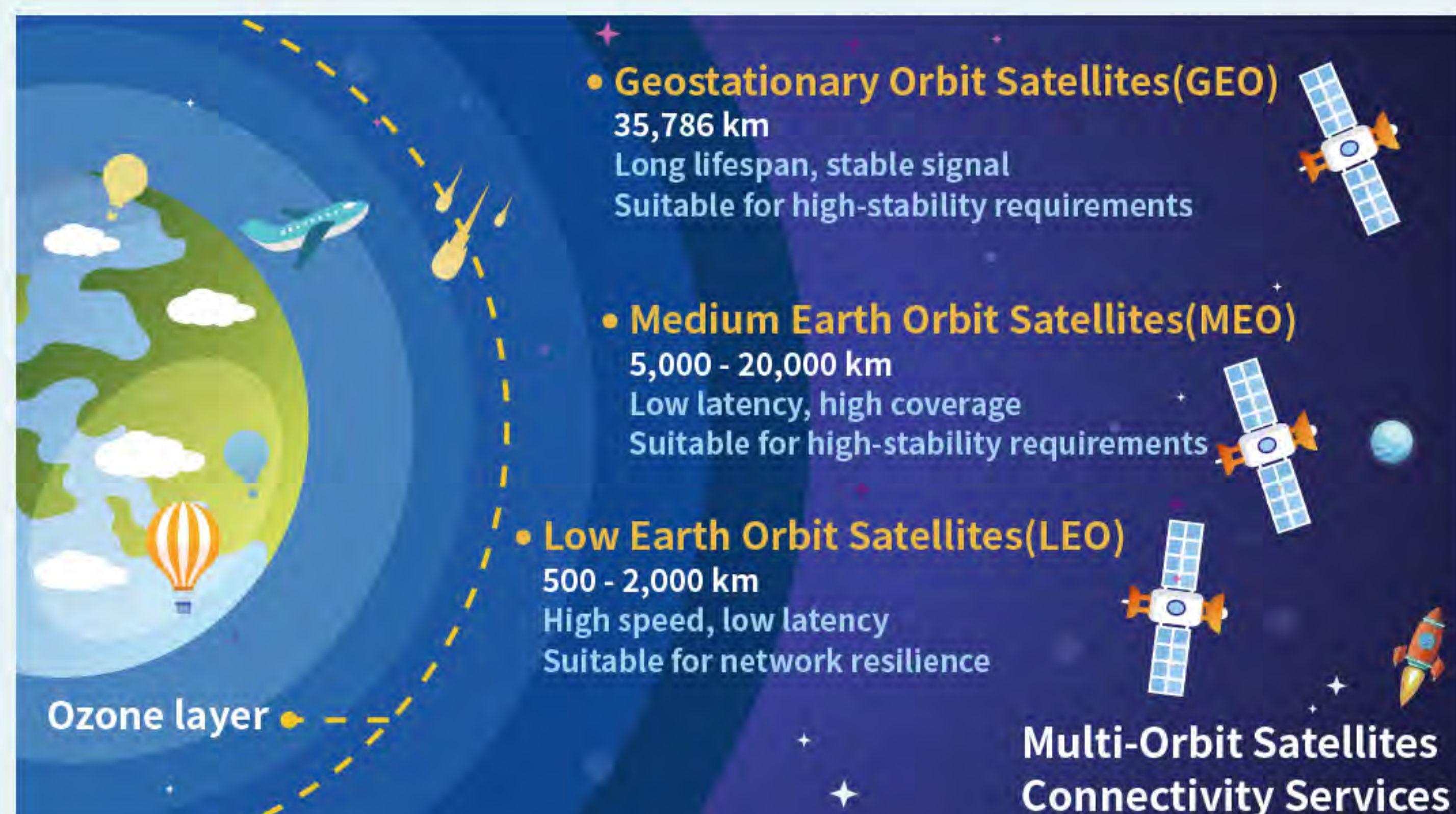
Multi-Orbit Satellites Connectivity Services

Coverage across land, sea, and air to ensure seamless global connectivity

Chunghwa Telecom is actively investing in satellite deployment, integrating low Earth orbit (LEO), medium Earth orbit (MEO), and geostationary orbit satellite(GEO) services. These services offer a variety of satellite communication solutions that not only meet the needs of government agencies and corporate clients, but also achieve seamless coverage of satellite networks across land, sea, and air at all times.

Through the flexible use and integration of multi-orbit satellites, Chunghwa Telecom plans and provides the best communication quality and services based on actual needs. For example, during a disaster, satellite communication can quickly establish emergency contact, ensuring smooth rescue operations. In the shipping industry, satellite IoT enables vessel tracking, cargo tracking, and data analysis, supporting intelligent upgrade of maritime operations. In the aviation sector, it provides stable high-speed internet services during flights, enhancing passenger experience.

- **Low Earth Orbit Satellites (LEO):**
Chunghwa Telecom has secured the exclusive agency rights for OneWeb's LEO satellites services in Taiwan which provides high-speed, low-latency resilient digital solutions for government and enterprise clients, which is essential for maintaining Taiwan's business competitiveness, economic stability, and business continuity.
- **Medium Earth Orbit Satellites (MEO):**
Chunghwa Telecom has signed an exclusive partnership agreement with SES for MEO satellite services in Taiwan, offering stable, high-speed MEO O3b mPOWER services with guaranteed bandwidth, and ensuring the rapid activation of satellite backup in emergency situations.
- **Geostationary Orbit Satellites(GEO):**
Chunghwa Telecom owns the ST-2 GEO satellite, and is developing a successor plan to ensure continued GEO coverage and stable performance.

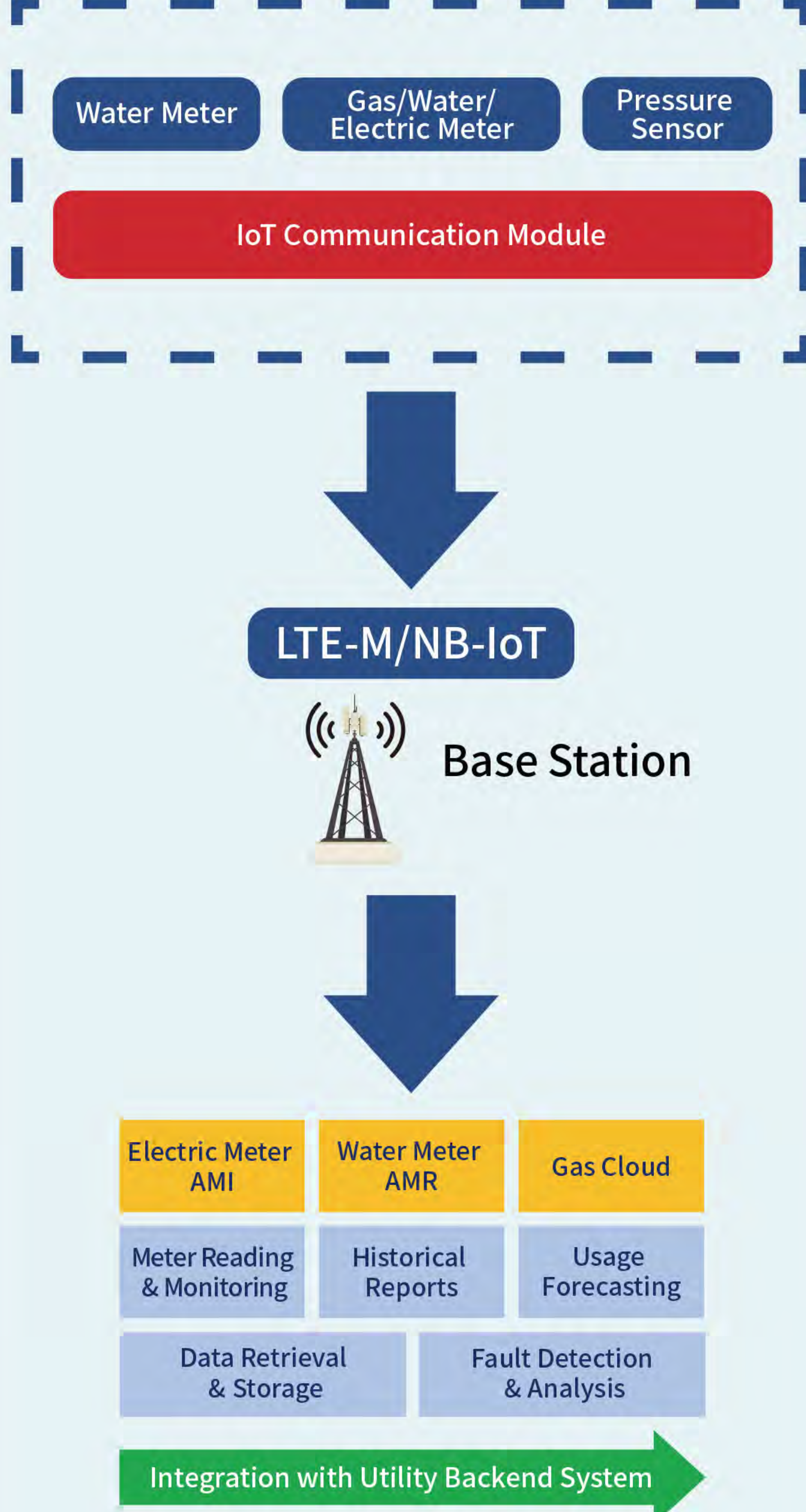


Communication Technologies & Solutions for Smart Metering

Upgrading the three utility meters—electric, water, and gas meters to be smart meters, enabling automatic meter reading and terminal device control.

- Smart Electric Meter AMI Reading Communication Technology
 - ✓ The AMI (Advanced Metering Infrastructure) meter reading headend system complies with the international standard DLMS (Device Language Message Specification) and Taipower interface specifications.
 - ✓ This pioneering load balancing mechanism and network access peak-shifting technology increases the number of serviceable base stations. The system features flexible meter reading capability and high-volume data processing technology within the Head End Server (HES) and the next-generation Field Area Network (FAN) communication module. It allows for flexible expansion of electric meter collection modules based on the number of managed meters, achieving integration of up to a million meters.
 - ✓ The system is paired with Chunghwa Telecom's LTE-M/NB-IoT mobile network, which offers the broadest national coverage, and features a smart network selection mechanism. It is the only carbon-footprint certified module that can maximize the benefits of the smart electric meter network.
- Smart water meter LTE-M/NB-IoT communication module
 - ✓ The smart water meter communication module adopts LTE-M/NB-IoT dual-mode automatic switching, featuring a peak-reporting mechanism to increase data return rates. It also allows for remote firmware OTA updates to improve the efficiency of device maintenance. The CHT-developed power-saving design can extend battery life up to 8 years or longer.
 - ✓ Integrated with Internet of Things (IoT) information and communication technology, the system effectively manages and controls the use of water resources, and interface with water meters using an encrypted communications format, ensuring high information security reliability.
 - ✓ After smart water meter data is uploaded via the communication module to the smart water resource management platform, the data is collected and stored by the platform, where functions include alarm management, statistical analysis, predictive analysis, and maintenance operation management functions, helping customers effectively achieve water usage management goals.
- Gas Meter Communication Submodule and Smart Gas Cloud Platform Management Service
 - ✓ The gas meter communication submodule is 100% independently developed by the Chunghwa Telecom Research Institute. It serves as the data transmission interface between the microcomputer gas meter and the gas cloud platform. Currently, it can interface and communicate with Japanese microcomputer gas meters from manufacturers such as Azbil, Aichi, Toyogas, and Toyokeiki.
 - ✓ The gas meter communications submodule transmits digital data from the gas meter microcomputer to the cloud system management platform using LTE-M/NB-IoT communications technology.
 - ✓ Chunghwa Telecom's Gas Cloud Management Platform is Taiwan's first IoT application for the natural gas industry. The platform features web-based cloud queries, meter management, remote meter reading, shut-off control, gas meter monitoring, battery level tracking, and alarm feedback display. It not only reduces the manpower required for meter reading but also significantly enhances gas usage safety.

Smart Metering System Architecture & Applications



AI Remote Intelligent Rehabilitation Guidance App

Extending Specialized Medical Resources Beyond the Hospital

Chunghwa Telecom has introduced AI analysis technology into the AI Remote Intelligent Rehabilitation Guidance App to capture patients' rehabilitation status. Using AI skeletal analysis, skeletal position, movement, and physiological data are presented in real time while the information is simultaneously transmitted to remote rehabilitation therapists. This allows therapists to provide real-time guidance, complete the remote consultation process and extend specialized medical resources directly to patients, promoting localized healthcare services.

Patient-side Equipment



The AI remote intelligent rehabilitation guidance app captures rehabilitation status

AI Analysis



The AI skeletal analysis system presents skeletal position, movements, and physiological data in real time.

Real-Time Data Transmission to Remote Rehabilitation Therapists



The rehabilitation therapist provides real-time guidance on patient movements, completing a one-stop remote consultation process.

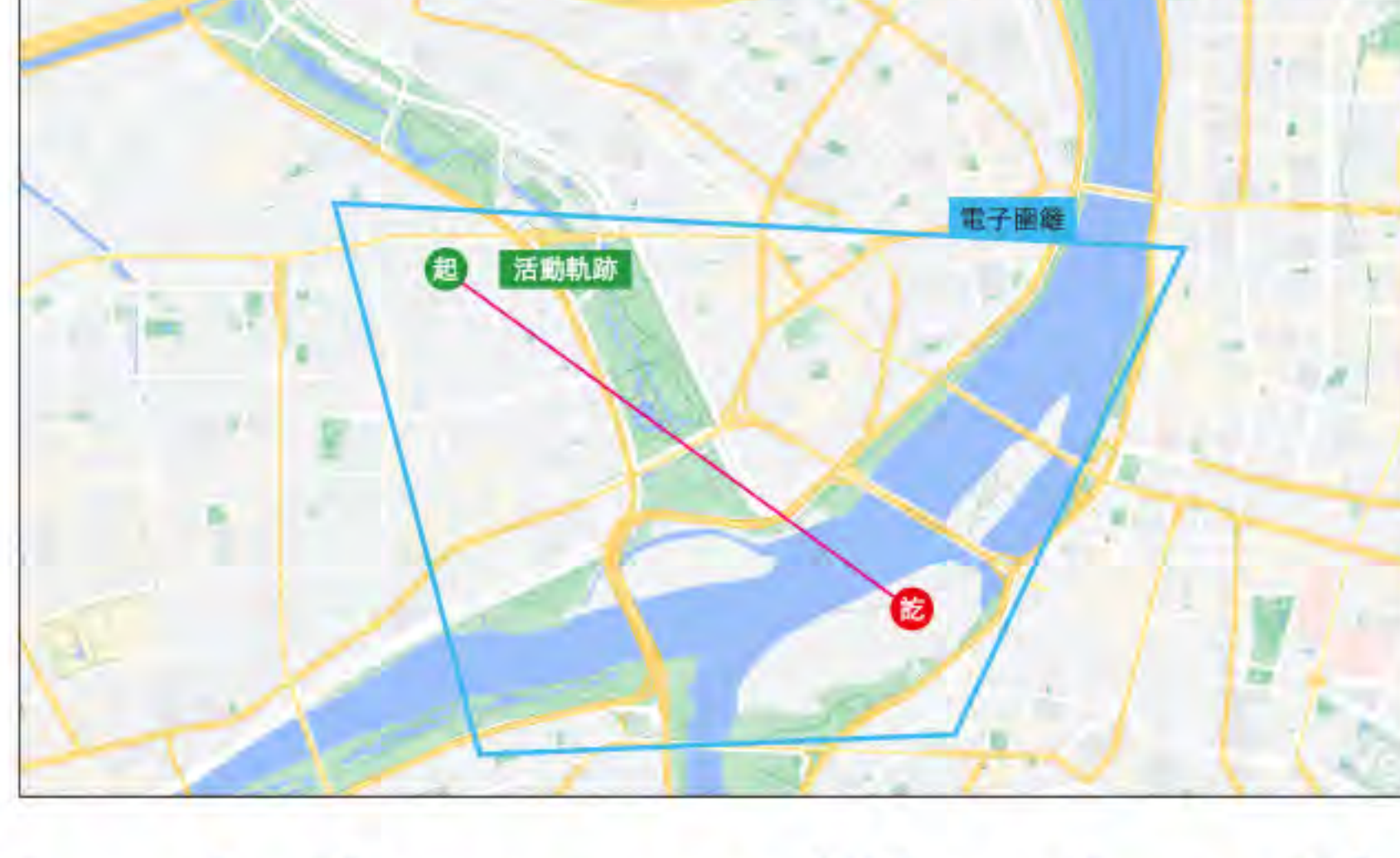
Senior Health and Position Tracking System

Creating a Safe Future for the Elderly

Integrated smart wearable devices at the front-end, health measurement data, and location information of elderly individuals are all uploaded to the backend for case management. Combining health analysis, location-based alerts, and other applications, provides comprehensive health management and safety tracking, bringing a more secure and convenient life to both seniors and their caregivers.

Features 1

Case location management



- Real-time positioning through smart watches
- Activity tracking
- Electronic fencing

Features 2

Real-time case status management



- Abnormal physiological information alerts
- SOS emergency alerts

Features 3

Physiological measurement records and statistics



- Historical records
- Abnormal alert record
- Statistical information

Use Smart Technologies to Drive Sustainability

In response to Taiwan's 2050 net-zero carbon emission policy, Chunghwa Telecom is actively promoting the electrification of enterprise vehicles. With our experience and local service, CHT offers safe, secure, and reliable electric vehicle charging solutions, bringing green power for environmental sustainability!

- CHT PowerHub Charging Management Platform
Using an AWS cloud architecture, the platform offers a charging dashboard, statistical reports, transaction details, equipment anomaly alerts, and carbon reduction management. It also includes a user-friendly app for EV owners to charge and make online payments easily.

- Platform features:

- ✓ Independently developed with flexible expansion
- ✓ Dynamic load balancing for energy efficiency
- ✓ EMS system for power management
- ✓ Comprehensive information security protection
- ✓ Real-time carbon emissions monitoring
- ✓ Compatible with multiple charging devices

- Target Customers:

The CHT PowerHub solution can be widely applied to government, enterprise and commercial office buildings; construction and real estate companies; residential communities and property management associations; public and private parking lot operators, commercial vehicle fleets; and other flexible applications customized to customer needs.

Chunghwa Telecom's CHT PowerHub Solution consists of five core modules that can be flexibly combined according to needs to create customized solutions:

Infrastructure Planning

Provides on-site surveys, power usage planning, and 3D simulation models for installation recommendations, and applies for electricity application processes with Taipower according to professional practices.

Construction and Installation

Installations are carried out by experienced electrical and mechanical personnel and construction teams to ensure high-quality and safe installation.

System Integration

Integrates multi-brand charging equipment, communication networks, and information security with the CHT PowerHub Solution.

Operations Management

Combines with localized maintenance capabilities and provide 24 hour customer support, operational reports, and payment processing services.

Value-Added Applications

Provides various application services, including multiple payment options, real-time video monitoring, energy management, and energy storage applications.

5G Unmanned Vehicle Smart Applications

UVSIS+UTMDual system for airspace inspection and management

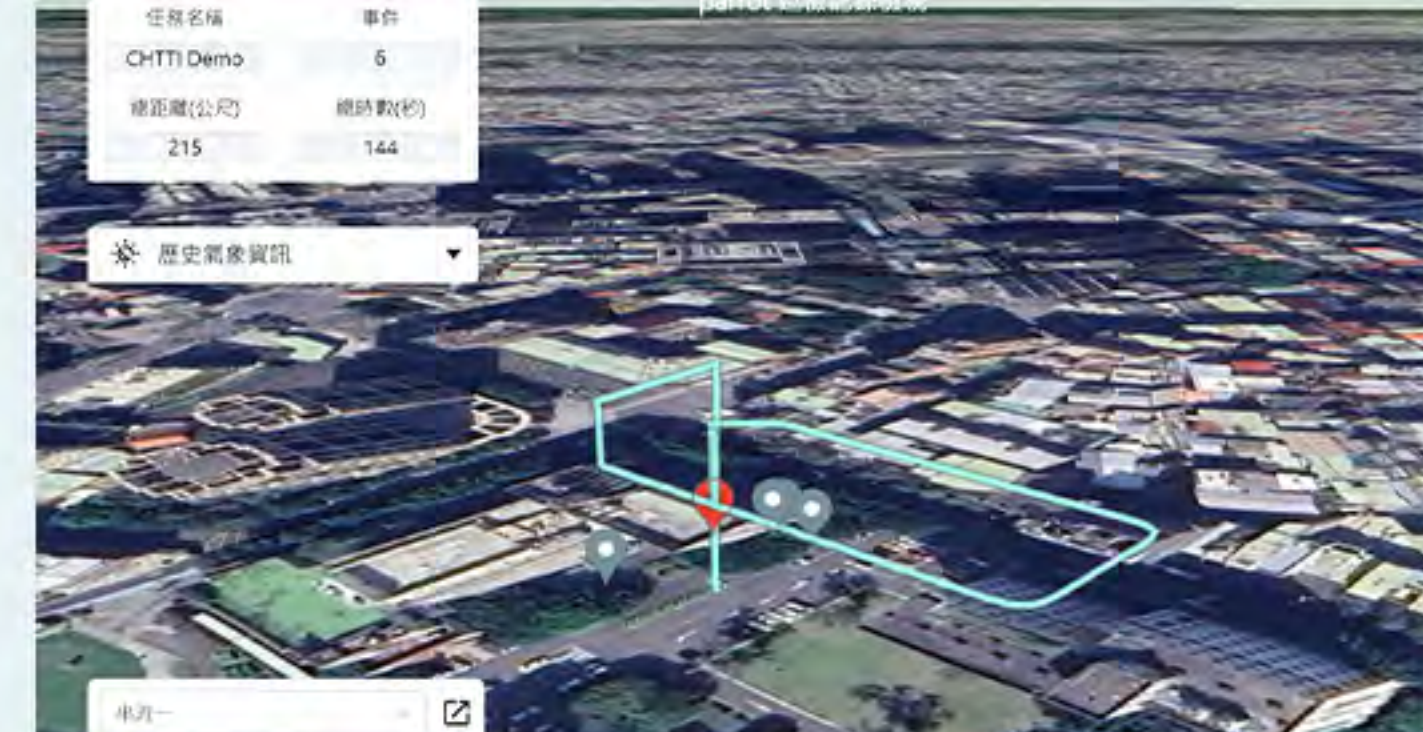
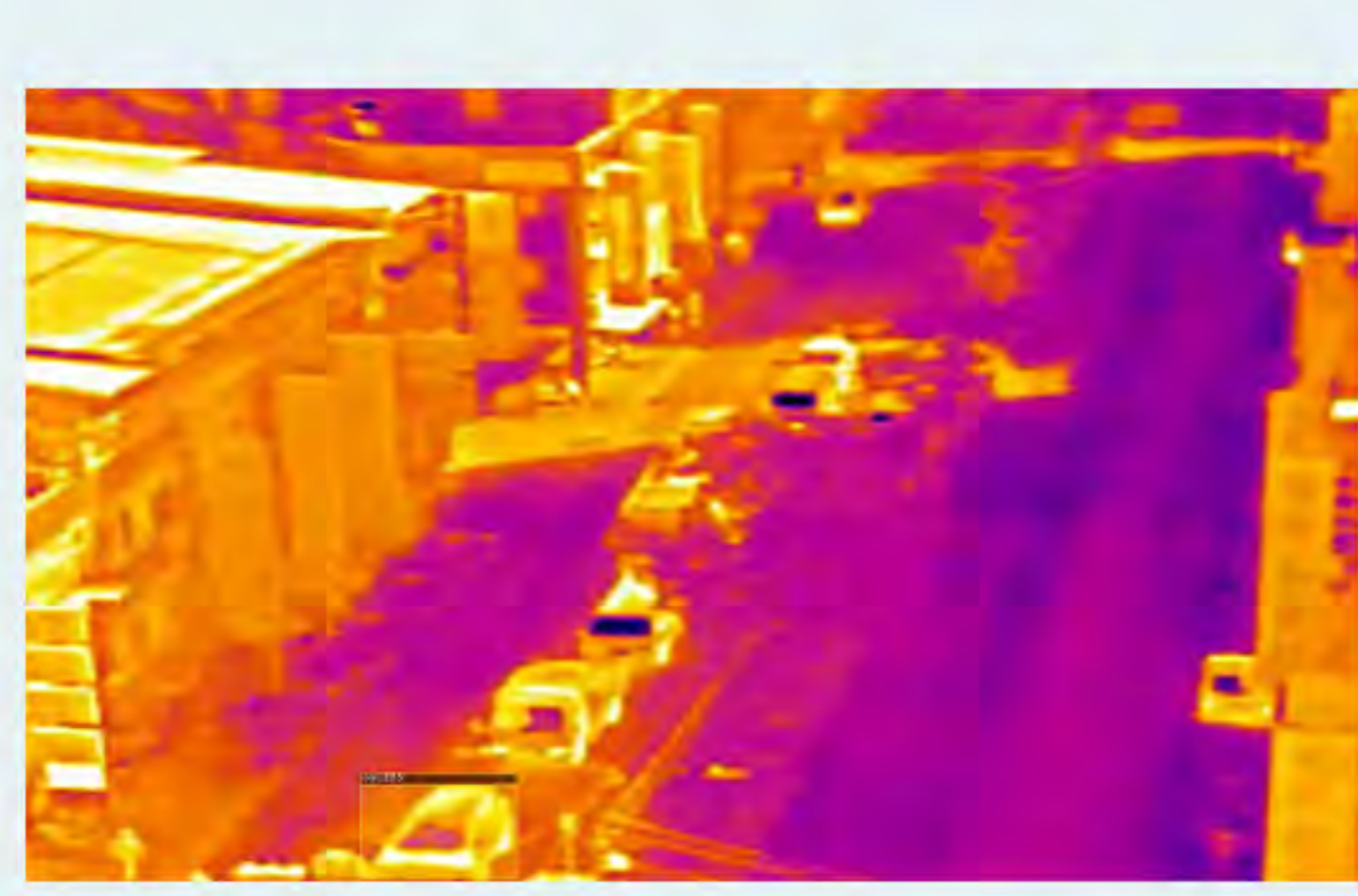
A smart new solution for unmanned vehicle applications

Chunghwa Telecom's Unmanned Vehicle Smart Inspection Service (UVSIS)

Integrates various smart applications to improve inspection and management efficiency

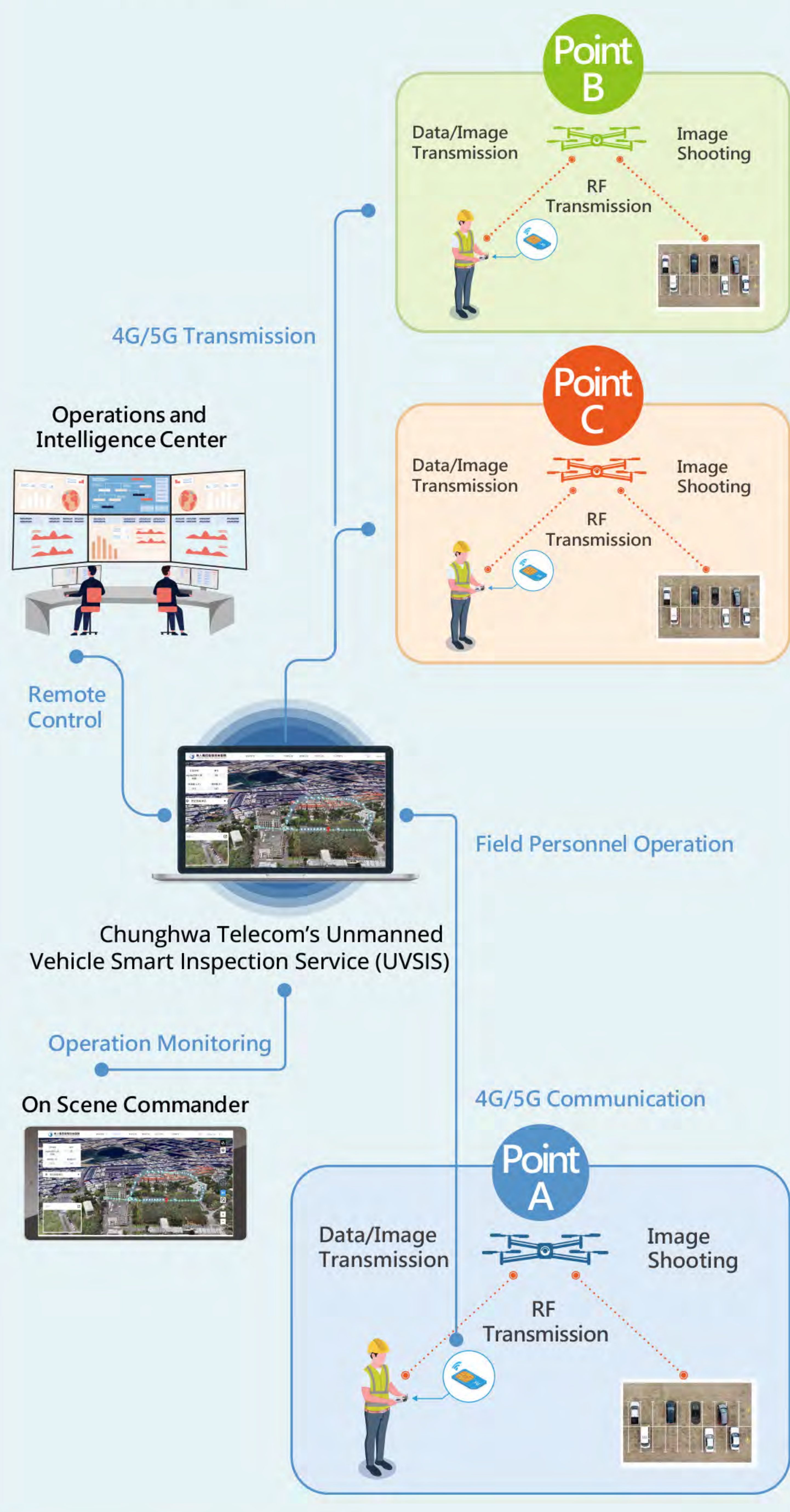
AI Recognition

- Personnel, vehicle, and customized AI recognition models
- Supports image recognition in visible and infrared images
- Marking identified location



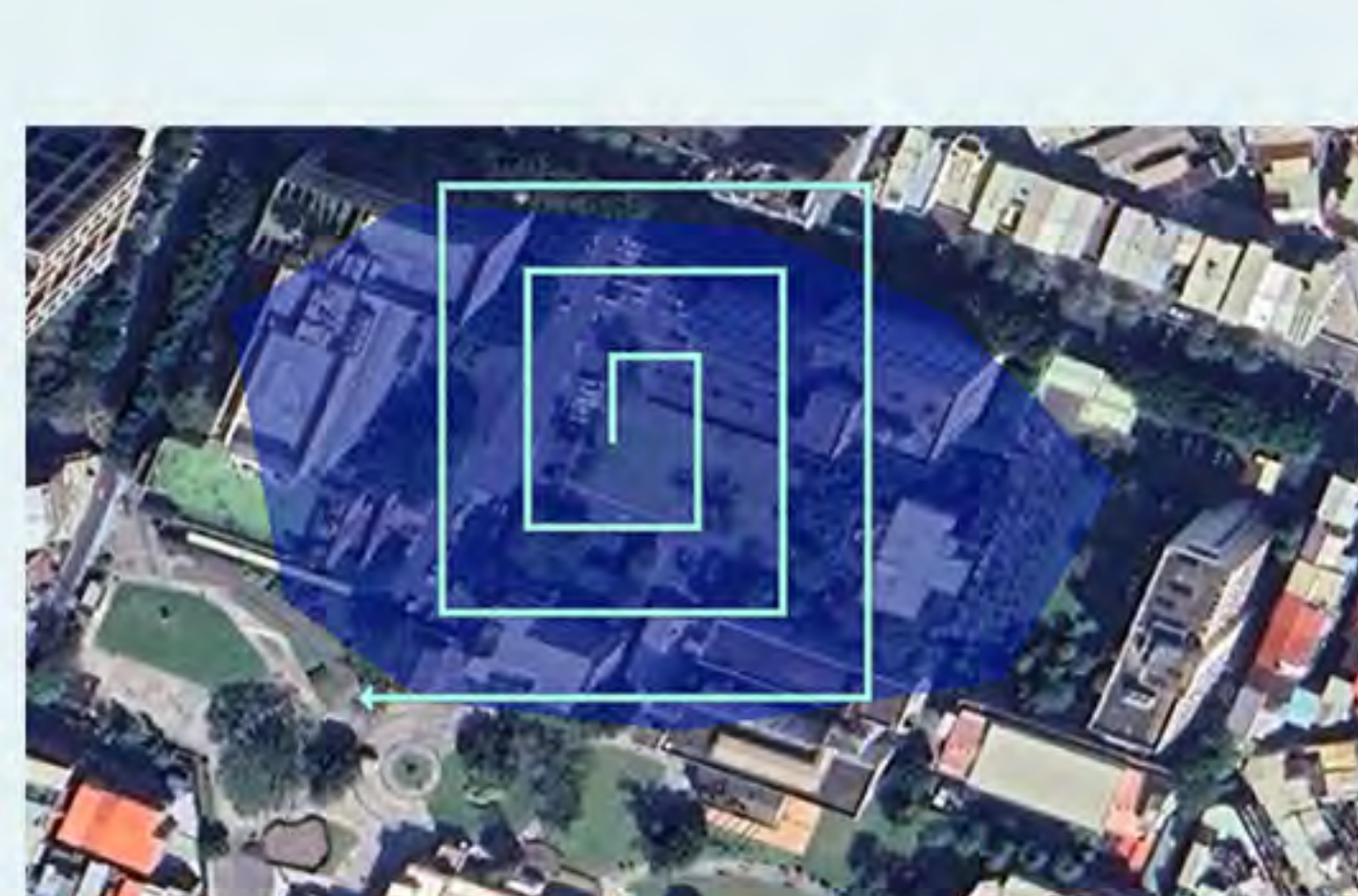
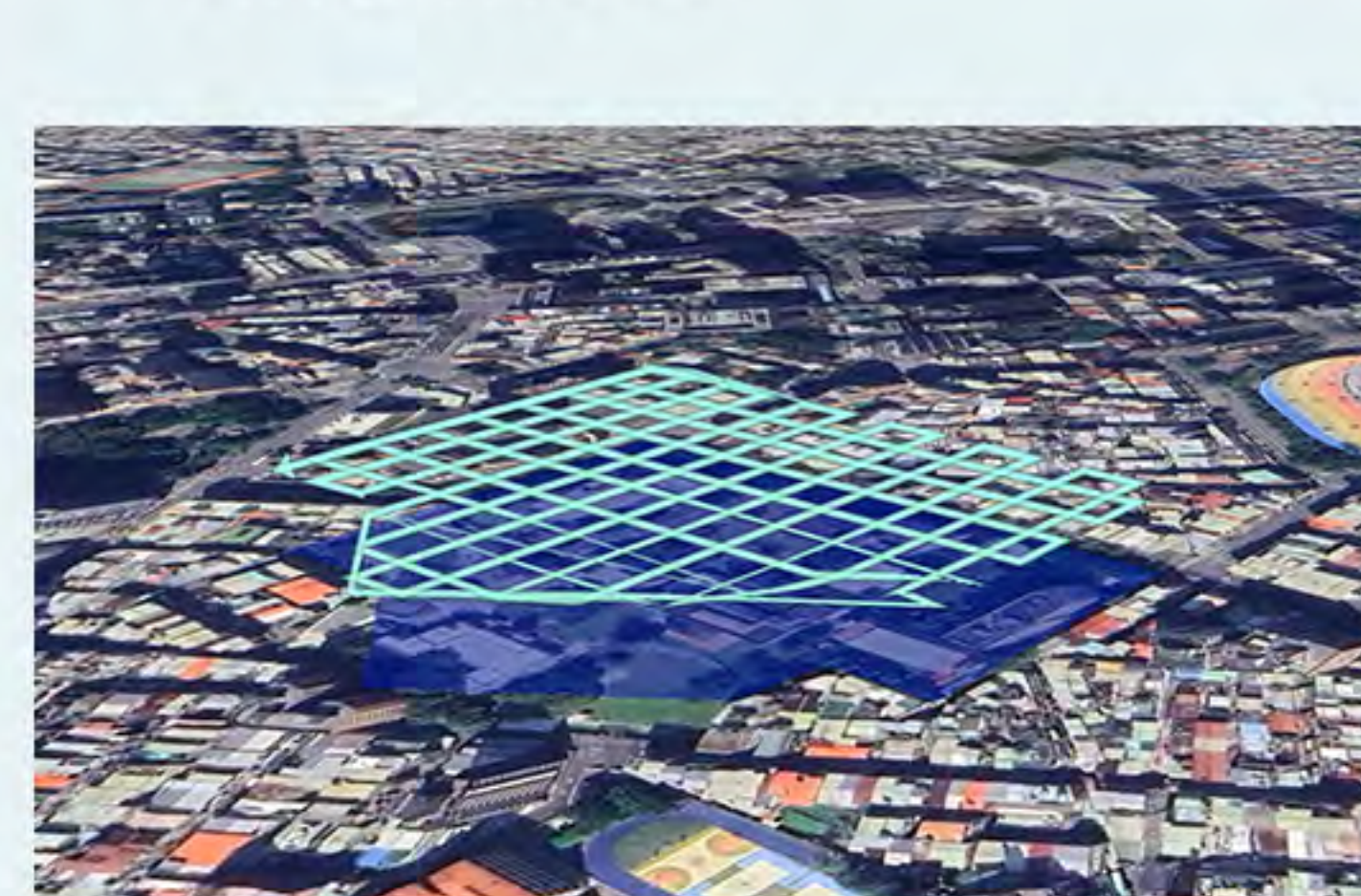
Real-Time Synchronization

- Multi-vehicle, multi-point, and multi-person real-time synchronization
- Real-time images and unmanned vehicle data can be integrated into operations and intelligence



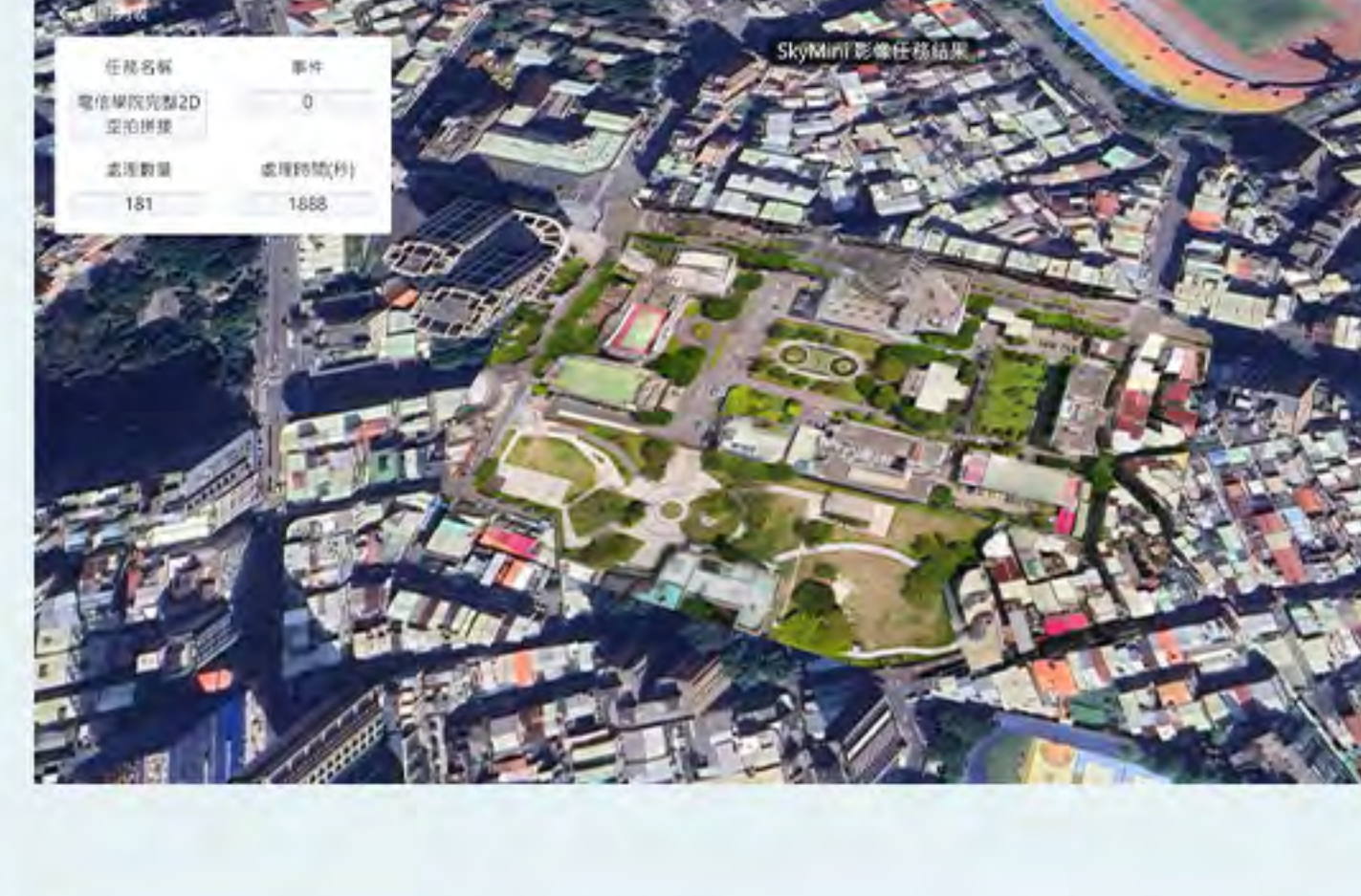
Smart Planning

- Automatic generation of inspection routes based on customer's needs
- Supports mission routes reuse
- Supports up to 6 types of automatic route planning, including 2D stitching routes, 3D modeling routes, facility inspection routes, and more



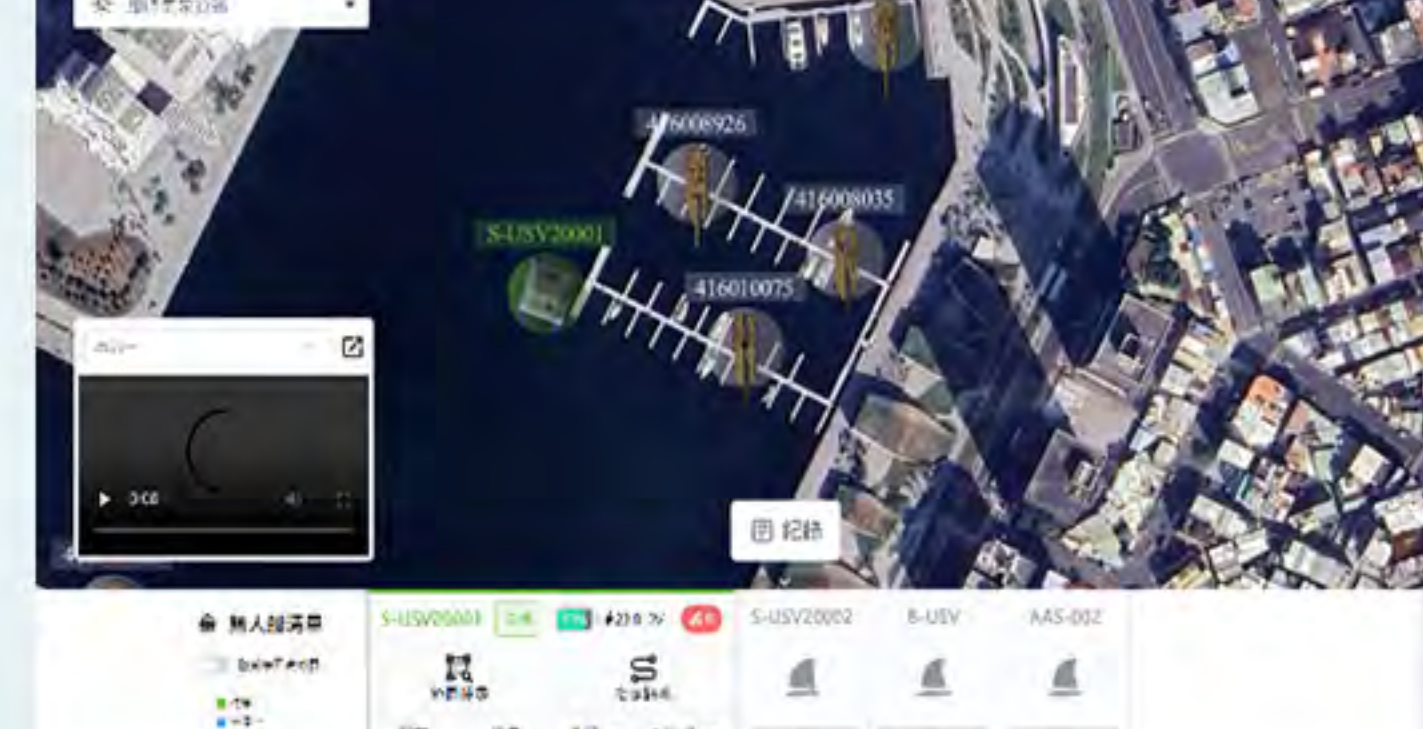
3D Modeling

- 3D modeling accurately reconstructs patrol area
- 2D-based streaming stitches for quick reconstruction of patrol area



Multiple Unmanned Vehicle Controlling Types

Capable of controlling unmanned vehicles across land, sea, and air applications



Chunghwa Telecom Unmanned Aircraft System Traffic Management (UTM)

Automated management and real-time monitoring—an intelligent choice for ensuring airspace safety

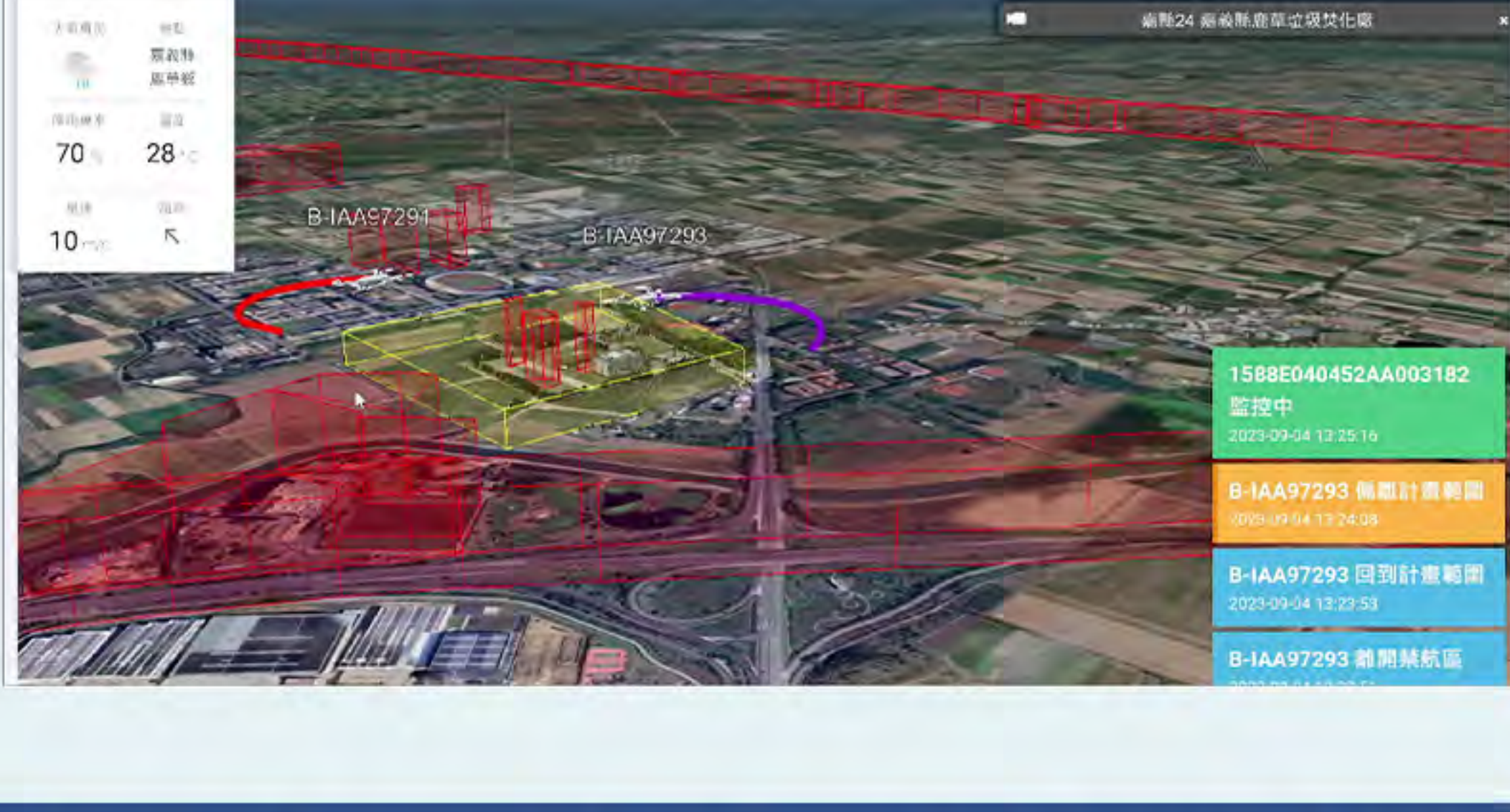
Automated Mission Management

Provides UAV flight mission planning, conflict analysis, and automated approval, reducing the manpower required for airspace review.



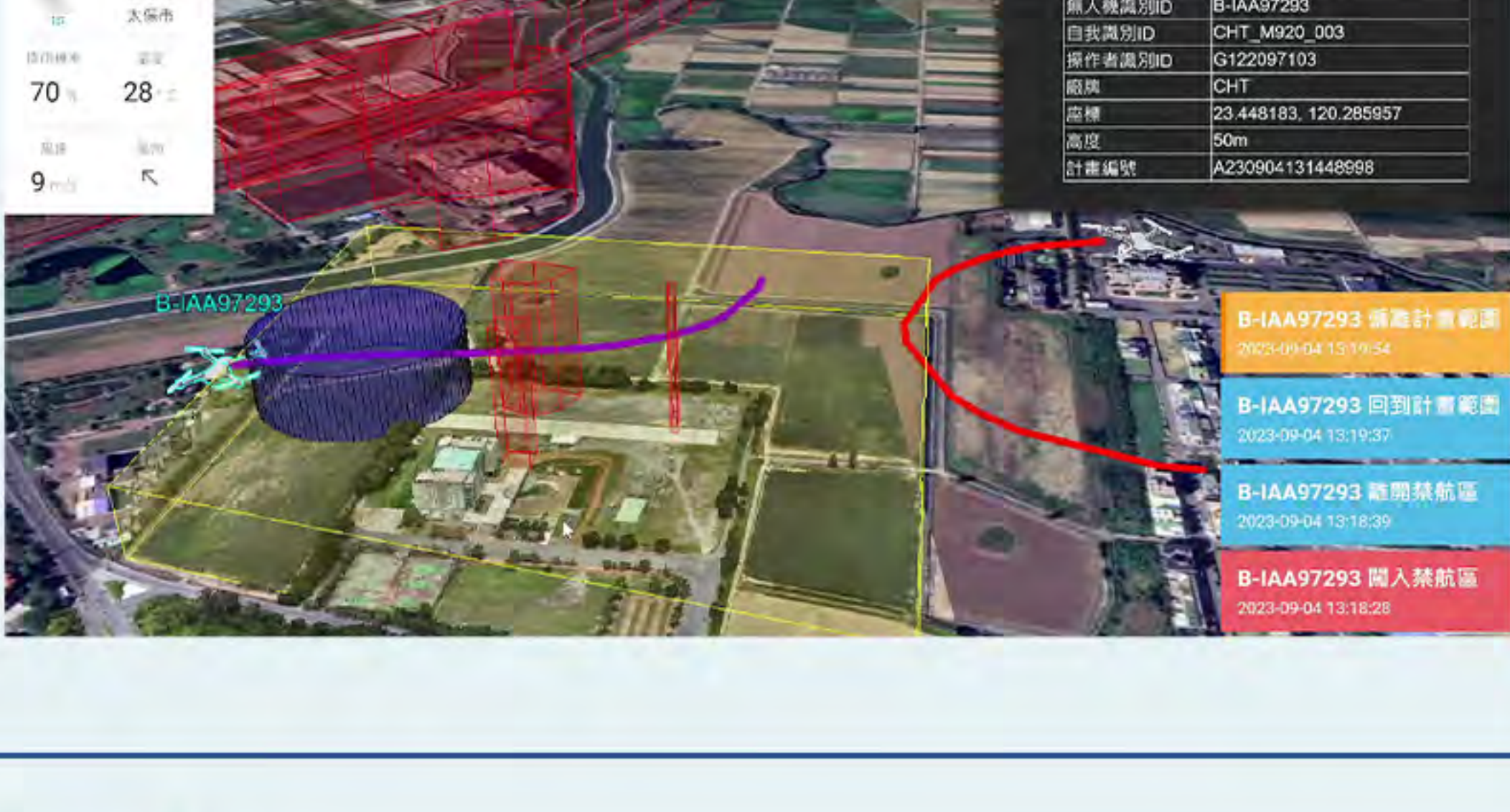
Real-Time UAV Status

Integrates 3D real-time flight trajectories with UAV information, enabling multi-perspective airspace management and real-time airspace monitoring.



Real-Time Event Notifications & Alerts

Integrates critical events such as unauthorized flight plans, airspace intrusions, route deviations from planned routes, and restricted flight zone information, enabling swift detection and management of violations.



Case Studies

5G Smart Port UAV Applications



AI Recognition of Illegal Fishermen



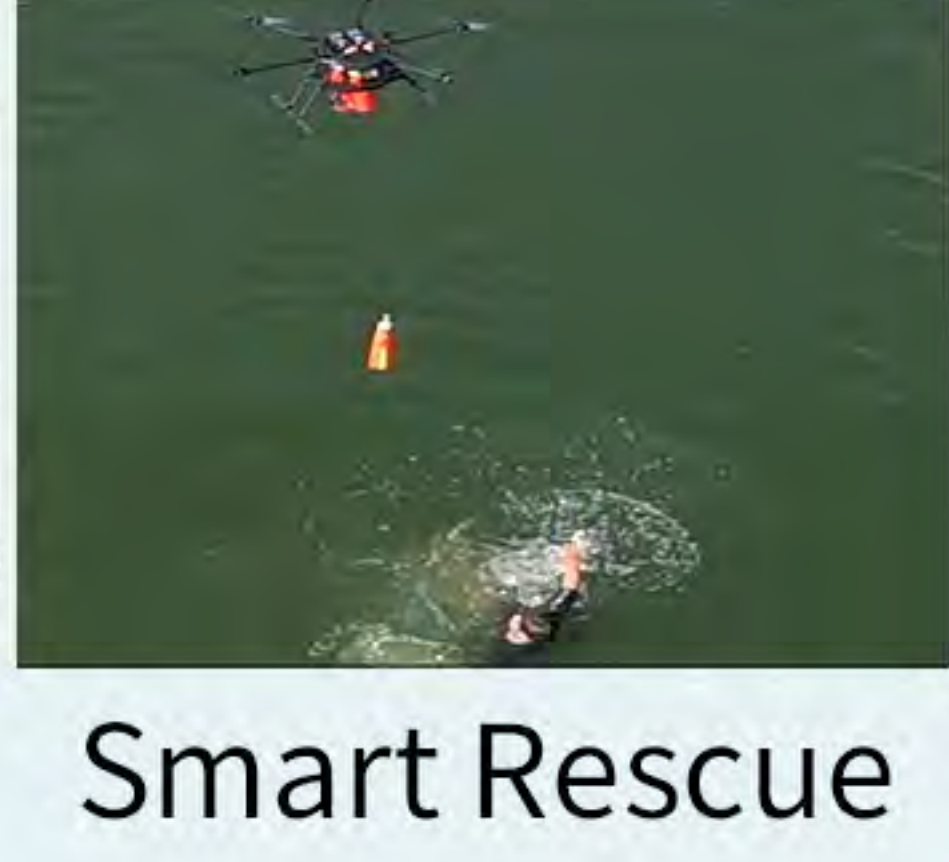
Ocean Debris Detection



Landscape Comparison



Pavement Deteriorations Detection



Smart Rescue

Firefighting Applications

- Broadcast messages via the system over a mounted loudspeaker
- AI recognition of personnel & vehicles
- 3D modeling
- Real-time UAV surveillance



2024 Institute of Transportation, MOTC UAV Remote Logistics, Delivery Verification Project

UTM System Implementation

Service verification in Hualien and Penghu, Dynamic monitoring of drone operations



Award-winning achievements

- 2025 Asian Telecom Awards
Technology Innovation of the Year
- 2024 Intelligent Transportation Society of Taiwan
Intelligent Transportation Award
- 2023 Taiwan Corporate Sustainability Awards
Growth Through Innovation Leadership Award
- 2023 10th Smart City Innovative Application Award
Enterprises and Foundations, Innovative Applications Category
- 2023 Defense Application Drone Challenge Selection
- 2022 Asia Communication Awards
Smart Places Project of the Year Award



SMART Call Number Protection Solution

Use “Smart number protection solutions” number masking technology to build a personal data protection wall

In today's digital era, accessing and transmitting personal information has become more convenient than ever. However, ensuring the proper storage and protection of this information has become a critical issue that directly impacts a company's reputation and value.

● Service Objectives:

- ✓ Prevent the leaking or misuse of personal information.
- ✓ Guard against third-party payment fraud.
- ✓ Provide stable and high-quality voice communications to enhance corporate reputation.

● Features:

- ✓ Phone number anonymization: Hide the phone numbers of both parties.
- ✓ API Framework: Easy system integration and quick deployment.
- ✓ Call recording preservation: Convenient real-time tracking for businesses.

● User Experience:

- ✓ Using an IVR interactive voice system, users can enter a unique number or scan a QR Code to quickly complete dialing.
- ✓ Improves interaction between businesses and consumers, enhancing overall service experience.

● Advantages:

- ✓ Low setup cost.
- ✓ Prevent misuse of private data, strengthening corporate image.

