



Comprehensive Emergency Command and Dispatch System Construction Plan



SYSTEM SUMMARY

Current Situation

In today's rapidly evolving and complex global environment, the nature of modern warfare and the increasing diversity of military missions have made the emergencies and contingencies faced by troops more intricate. This calls for higher demands for rapid and efficient emergency command and dispatch capabilities. The key objectives are as follows:

1.Rapid Response Capability:

In emergency scenarios, quickly activate the emergency command mechanism to ensure the rapid assembly, deployment, and operational command of the troops.

2.Information Sharing and Collaboration:

Break down information silos between departments to enable real-time sharing and collaborative use of various intelligence data and operational resources, thereby improving operational effectiveness.

3.Visualization of Command:

Leverage technologies such as video surveillance and geographic information systems (GIS) to provide commanders with an intuitive awareness of battlefield conditions, enabling visualized decision-making.

4.Multi-Channel Communication:

Integrate various communication methods, including wired communication, wireless communication, and satellite communication, to ensure smooth and unimpeded command communication in complex environments.

Solution

Through the integration of resources, clustered communication dispatch, and disposal planning, the system achieves intelligent command operations. It enables unified and holistic joint handling of emergencies, enhancing the ability to respond quickly and coordinate multi-department, multi-region joint actions. The system facilitates the analysis, evaluation, and collaborative consultation of emergency events, along with integrated enforcement scheduling and process control for handling incidents. It ensures a closed-loop approach of "one case, one file" for comprehensive incident management, thereby improving the emergency response capabilities of all departments and ensuring the operational efficiency of the troops.



Content

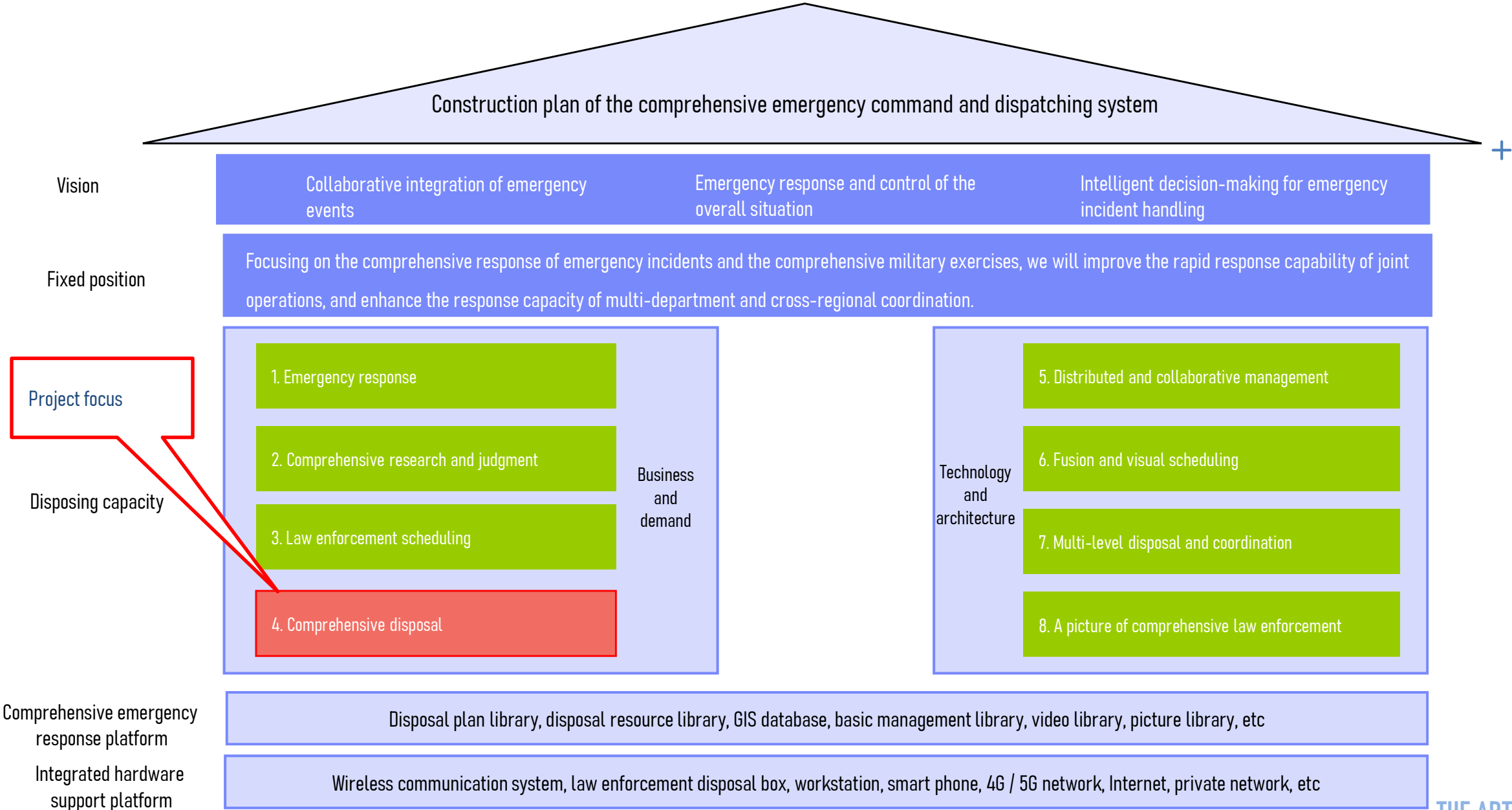
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- ③ System Overall Design
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- ⑤ Function Introduction
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Overall Objective

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Overall Objective

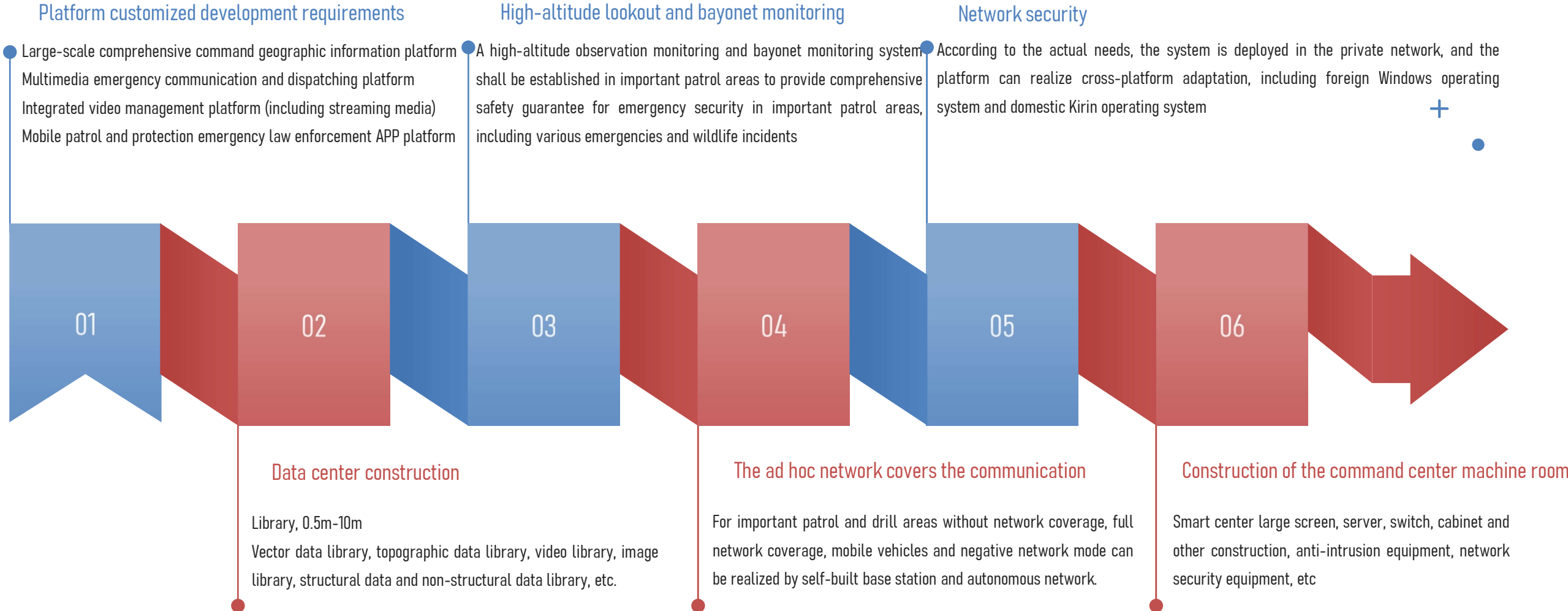


Demand Summary

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Demand Summary



Demand Summary- Comprehensive Law Enforcement and Incident Handling Requirements

Real-time disposal and scheduling

Real-time monitoring of distribution task reception and implementation; comprehensive location monitoring of law enforcement disposal personnel, obtaining on-site video to check the site situation, real-time communication with on-site law enforcement personnel, and comprehensive control of the law enforcement process.

Rapid and comprehensive law enforcement

Through the study and judgment of the incident, matching and launching the relevant comprehensive law enforcement disposal plan, formulating the incident disposal plan, and distributing the comprehensive law enforcement disposal tasks to the comprehensive law enforcement personnel of the on-duty detachment.



Timely alarm reception and treatment

After an emergency occurs in a certain place, the alarm is received quickly, and the command center judges the type and level of the event through the event analysis.

A comprehensive collection of information

With emergencies as the center, the map information around the incident, law enforcement detachment information, ship information, road condition information, facility information, real-time video information, and the information of comprehensive law enforcement disposal personnel are comprehensively collected.

Demand Summary- Application Requirements

7

Comprehensive law enforcement and disposal system flattening

Through the integrated command system of the command center, the integrated communication dispatching system, the video photoelectric system and the mobile patrol law enforcement system, the data interaction is realized, a unified comprehensive law enforcement closed-loop system is built, and the comprehensive law enforcement flat processing is realized.

2

Comprehensive law enforcement and disposal process

Law enforcement events are analyzed and judged through various kinds of information collection, and law enforcement disposal plan is matched according to event type and event level, and disposal tasks are formulated and issued according to the plan, and the whole process of event law enforcement and disposal process is monitored.

3

Software operation is efficient and convenient

Fully consider the operation habits of the team members on duty and the disposal team members, simplify the operation process, display the interface with clear priorities, and avoid unnecessary invalid and complicated operations to improve work efficiency; and make different operation interfaces according to the unused user roles.

4

Rationalize the data network security

The construction of a comprehensive law enforcement system requires information sharing between various networks of the Intranet and data interaction between the internal and external networks, and ensures network security by means of authority control, network security equipment and information classification.

Demand Summary- Command Center Function



Unified Map for Comprehensive Law Enforcement and Incident Handling:

- Map Display:** Visual representation of enforcement activities on a map.
- Basic Map Operations:** Standard functionalities such as zoom, pan, and navigation.
- Layer Management:** Enable management and control of different data layers on the map.
- Layer Information Viewing:** Display detailed information associated with each layer.
- Ship Tracking:** Visualization of vessel locations and movements.
- Incident Display:** Highlight emergency incidents and response actions.
- Enforcement Team Display:** Show locations and status of enforcement teams and resources.

Demand Summary- Command Center Function



Comprehensive Law Enforcement Dashboard:

• **Integrated Display of Enforcement Data:** Showcase various types of enforcement information, including:

- Number of personnel on duty.
- Number of enforcement brigades.
- Number of enforcement team members.
- Number of emergency incidents.
- Number of enforcement personnel in each grid.
- Statistics on patrol routes and attendance.
- Incident response statistics.

• **Integration with CCTV Monitoring System:** Enable data sharing and interface with CCTV monitoring systems for synchronized information updates.



Demand Summary- Command Center Function



Closed-Loop Management for Comprehensive Law Enforcement and Incident Handling:

- Upon receiving an emergency incident report, initiate the following steps:
 - Activate enforcement plans.
 - Assign incident handling tasks.
 - Perform real-time task dispatch.
 - Monitor enforcement task progress.
 - Complete enforcement actions.
 - Enable query and review of incident handling records.
- Ensure end-to-end, closed-loop management for all enforcement activities.

Demand Summary- Command Center Function



Smooth Integration with Existing Platforms:

- Seamlessly integrate with existing systems, including:
 - CCTV video monitoring platform.
 - High-point surveillance systems.
 - Mobile patrol enforcement systems.
- Enable multi-platform integration and openness to support closed-loop management for comprehensive law enforcement.



Demand Summary- Command Center Function



Comprehensive Law Enforcement Scheduling Management:

- Automate scheduling based on clock-in data from enforcement brigades in each grid.
- Display duty rosters for joint enforcement brigades in each grid unit.

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Demand Summary- Command Center Function



Grid-Based Management for Comprehensive Law Enforcement:

- Use enforcement grids as the basic management unit.
- Provide detailed visualization of personnel in each grid, including on-duty and response teams.
- Display locations and movement trajectories of posts, joint enforcement brigades, and personnel.



Demand Summary- Role Requirements

1



Decision-Making Leadership

Decision-Making Support:
Through the aggregation of incident information, provide timely and comprehensive updates on incident handling progress and on-site conditions to support informed leadership decision-making.

2



Law Enforcement and Incident Handling

Task Assignment and Monitoring:
Based on the comprehensive law enforcement and incident handling plans, enable leadership to assign handling tasks, monitor task execution in real-time, and direct on-site personnel with real-time command and dispatch.

3



Information Services

Learning Resources and Capacity Building:
Develop and provide access to comprehensive law enforcement handling plans and case studies for relevant personnel to enhance their professional skills and operational capabilities.

Demand Summary- Mobile Patrol Enforcement Functions

Enforcement Post Task Management

Includes mobile enforcement grid management, mobile enforcement location tracking, enforcement trajectory management, and reporting for routine enforcement tasks.

Enforcement Map

- Features include map display, basic map operations, layer management, layer information viewing, and a dedicated map for monitoring wildlife activity.

User Login

- Users from different enforcement brigades log in to the system and clock in at their respective posts.



Mobile Incident Handling

Comprehensive Law Enforcement Handling Management

- Provides real-time synchronization of incident locations, task reception, and confirmation of mobile enforcement assignments issued by the command center. Enables enforcement deployment, one-click emergency response, real-time dispatching, task monitoring, progress reporting on enforcement actions, and final reporting of completed enforcement activities, ensuring closed-loop management..

Audio-Visual Comprehensive Enforcement Dispatch Management

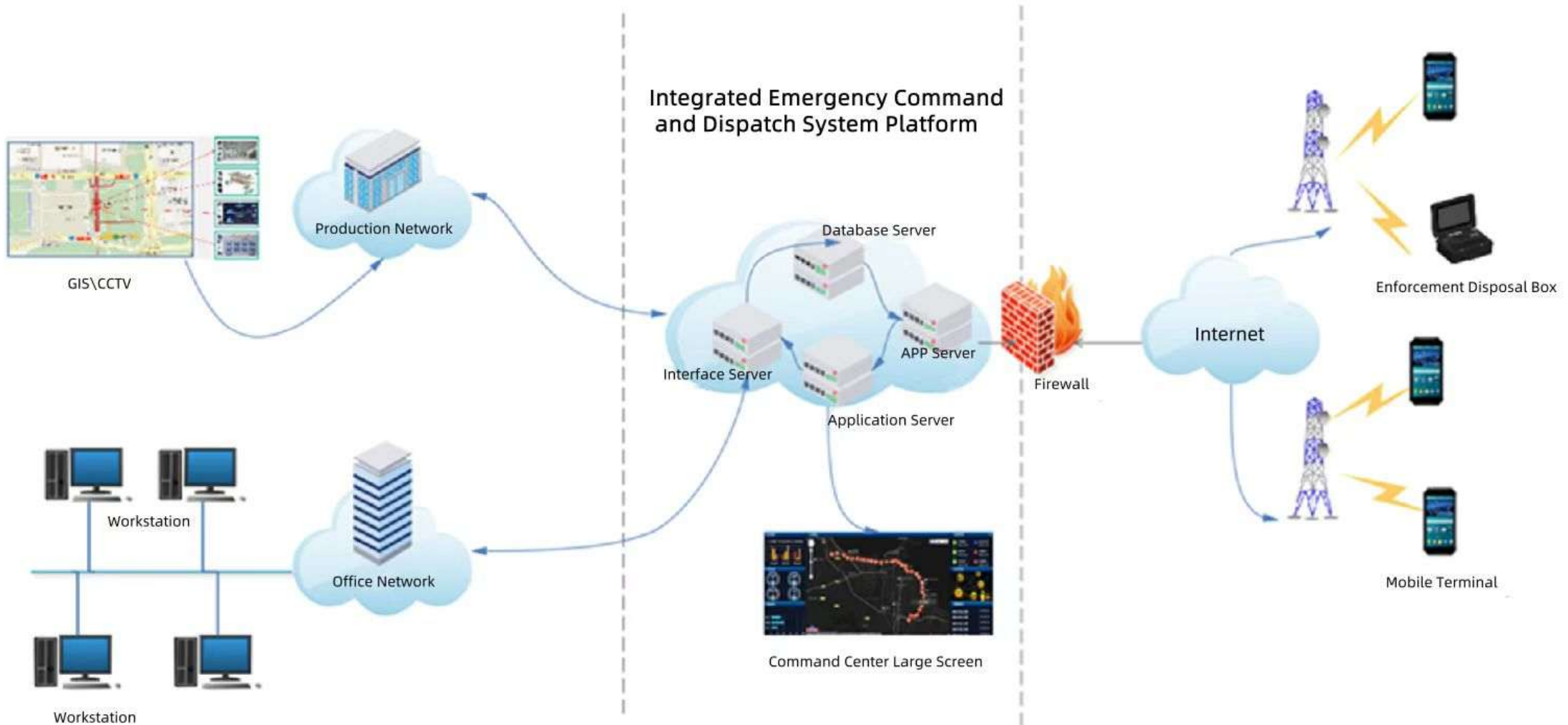
- During duty or enforcement activities, the command center can respond to emergencies by initiating real-time audio and video communication with joint enforcement grid brigades. Supports individual calls, group calls, and team calls for comprehensive enforcement dispatch.

System Overall Design

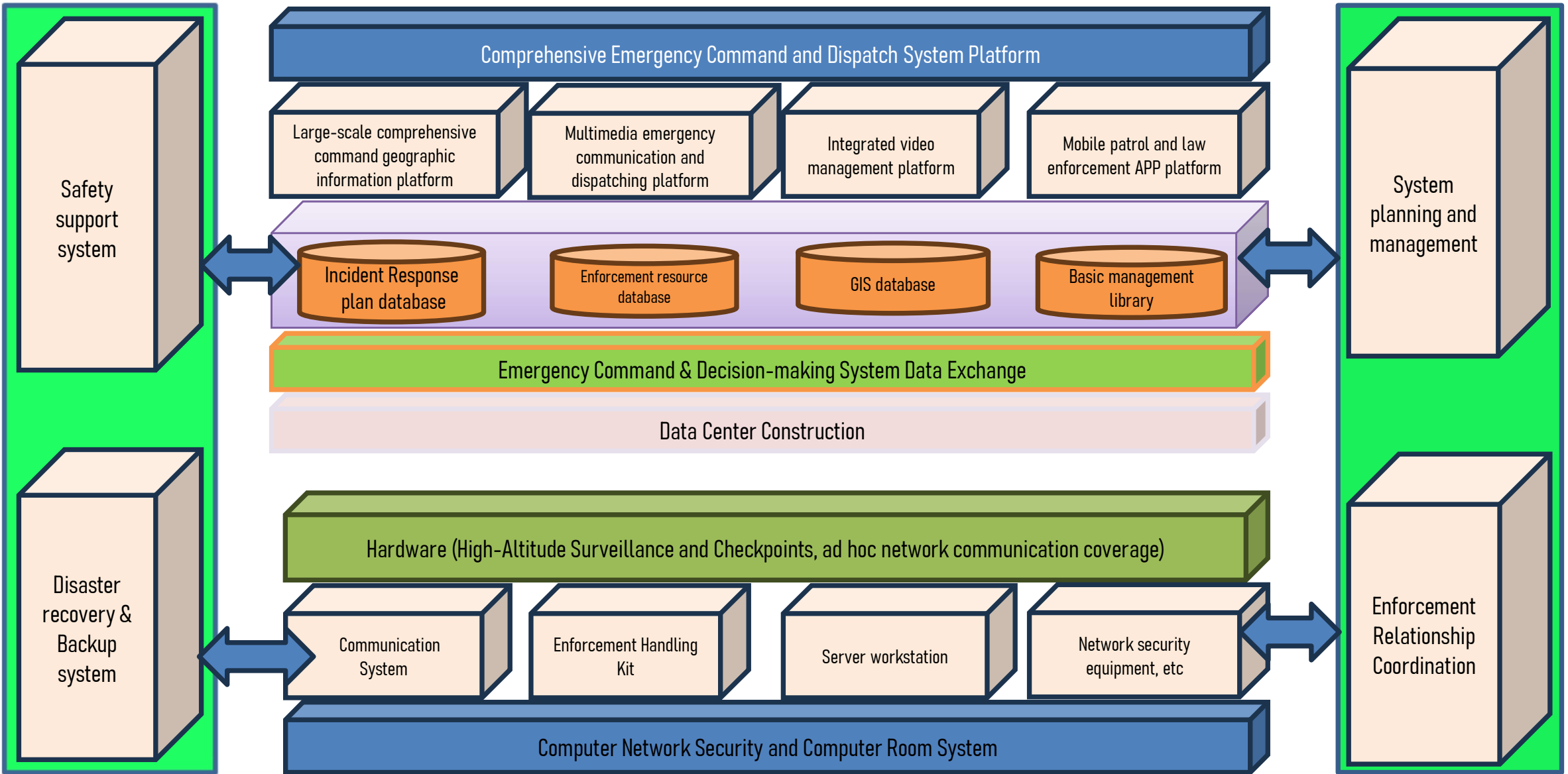
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Overall Design- Network Architecture Diagram



Overall Design- System Architecture Diagram



Overall Design- System Advantage

The construction of a comprehensive emergency command and decision-making system is centered around operational realization, enhancing troop support capabilities through 4 core functions and 6 key abilities.

Incident Handling Capability



Decision-Making and Analytical Capability

Rapid Response Capability

Information Collection

Comprehensive Assessment

On-Site Control Capability

Information Integration Capability

Close-Loop Management

Joint Enforcement

Collaborative Enforcement Capability

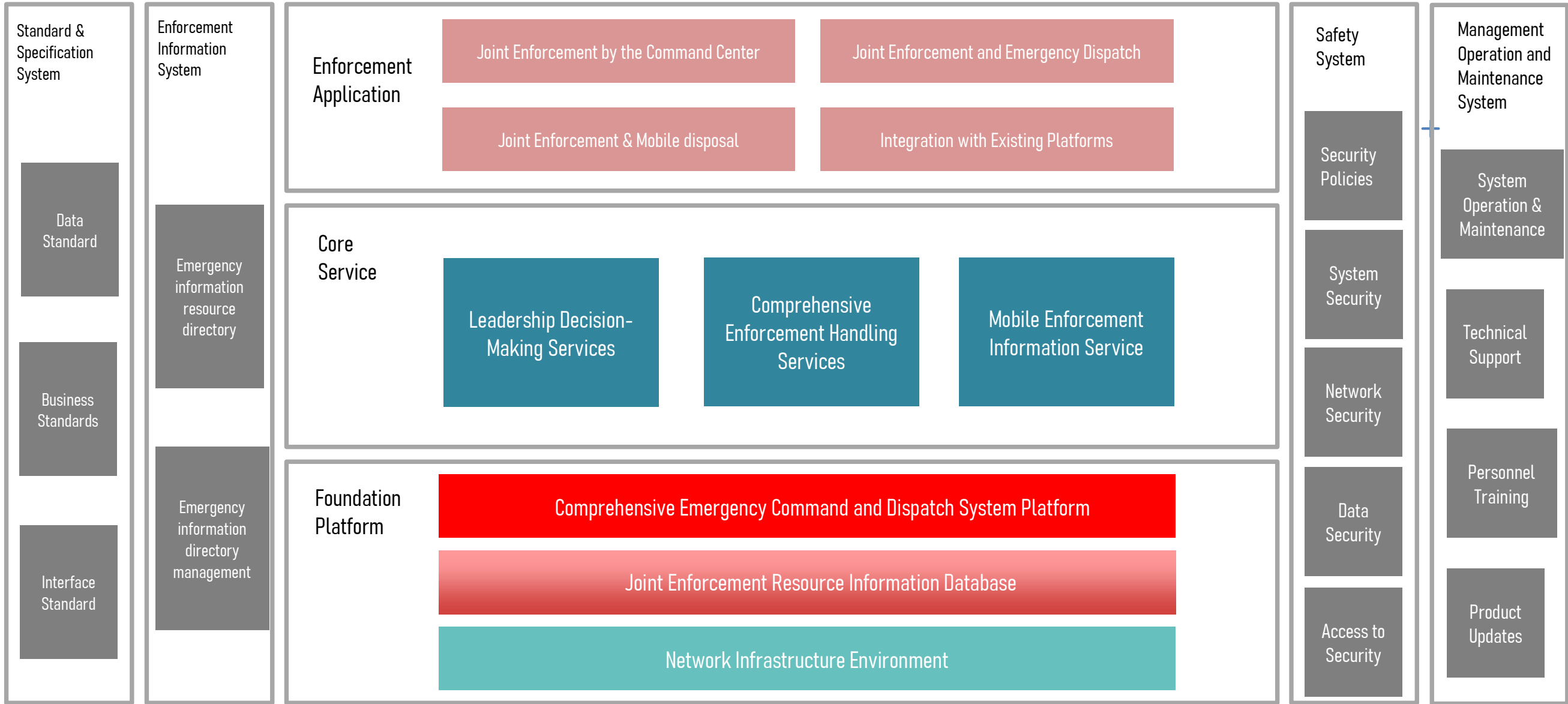


Technical Proposal

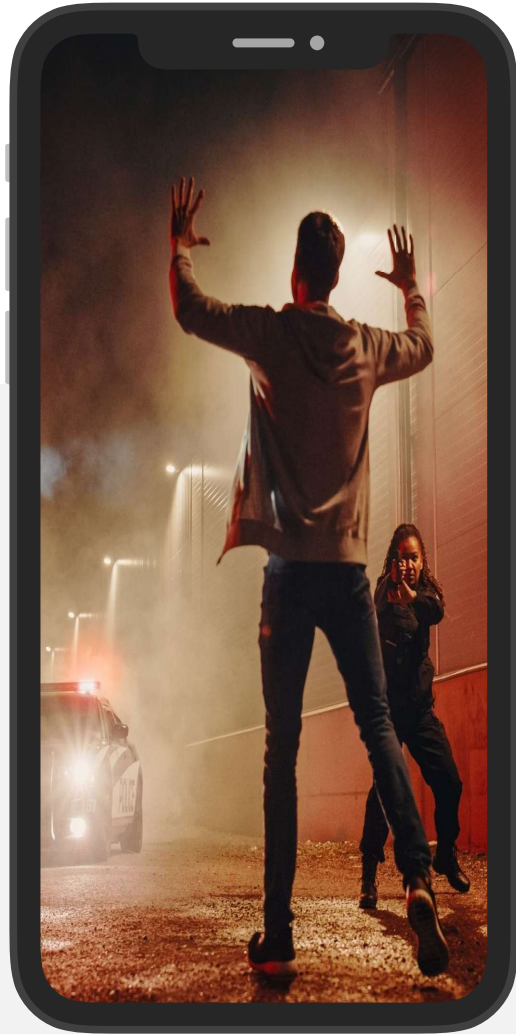
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Technical Proposal- Platform Architecture



Technical Proposal- Comprehensive Enforcement Information Sharing



Comprehensive Enforcement Information Sharing

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1

Comprehensive Enforcement Handling Map

Basic electronic maps, including features such as vessel maps, site maps, enforcement brigade maps, and enforcement personnel distribution maps for information retrieval.

2

Comprehensive Joint Enforcement Grid Management

Standardize management of enforcement grids, displaying personnel distribution and enforcement operations within each grid.

3

Comprehensive Enforcement Scheduling and Management

Automatically generate schedules for joint enforcement personnel based on enforcement plan requirements.

6

Comprehensive Enforcement Dashboard

Consolidate incidents, dispatch status, and grid enforcement activities into a visualized dashboard for streamlined management.

5

Comprehensive Enforcement Closed-loop Management

Includes suspicious incident detection, task assignment, enforcement actions, reporting of actions, and task completion management.

4

Existing Platforms Integration

Seamless Integration Development for Mobile Patrol System, Video Electro-Optical System, and Law Enforcement Recorders

Technical Proposal - Comprehensive Enforcement Handling Support Services

Comprehensive Enforcement Handling Map

Features include map display, basic map operations, layer management, layer information viewing, vessel display, incident display, and enforcement team display, providing comprehensive enforcement information.

Comprehensive Enforcement Dashboard

Displays various types of enforcement information, such as the number of personnel on duty, enforcement brigades, enforcement teams, emergency incidents, grid enforcement team numbers, attendance statistics, and patrol statistics. Information is shared with and integrated into the CCTV monitoring system for real-time updates.

Comprehensive Enforcement Closed-loop Management

Manages tasks from incident reception, plan activation, task assignment, real-time dispatch, enforcement action monitoring, completion of tasks, to incident queries, ensuring closed-loop management of enforcement operations.

Comprehensive Joint Enforcement Grid Management

Uses enforcement grids as management units, providing a detailed visualization of enforcement personnel, on-duty staff, joint enforcement grid brigade locations, and patrol trajectories within each grid

Comprehensive Enforcement Scheduling and Management

Automatically generates and displays schedules based on the clock-in data of enforcement brigades in each grid, showing the duty status of enforcement teams in each management unit..

Existing Platforms Integration

Seamless connection with the CCTV video monitoring platform, high-altitude surveillance, and mobile patrol enforcement systems. Enables multi-platform integration for unified management and comprehensive closed-loop enforcement handling.



Technical Proposal - Comprehensive Enforcement Handling Support Services



User Login

Users from different enforcement brigades log in to the system and clock in at their respective posts.



Enforcement Map

Features include map display, basic map operations, layer management, layer information viewing, and a dedicated map for monitoring wildlife activity.



Enforcement Post Task Management

Includes mobile enforcement grid management, mobile enforcement location tracking, enforcement trajectory management, and reporting for routine enforcement tasks.



Comprehensive Law Enforcement Handling Management

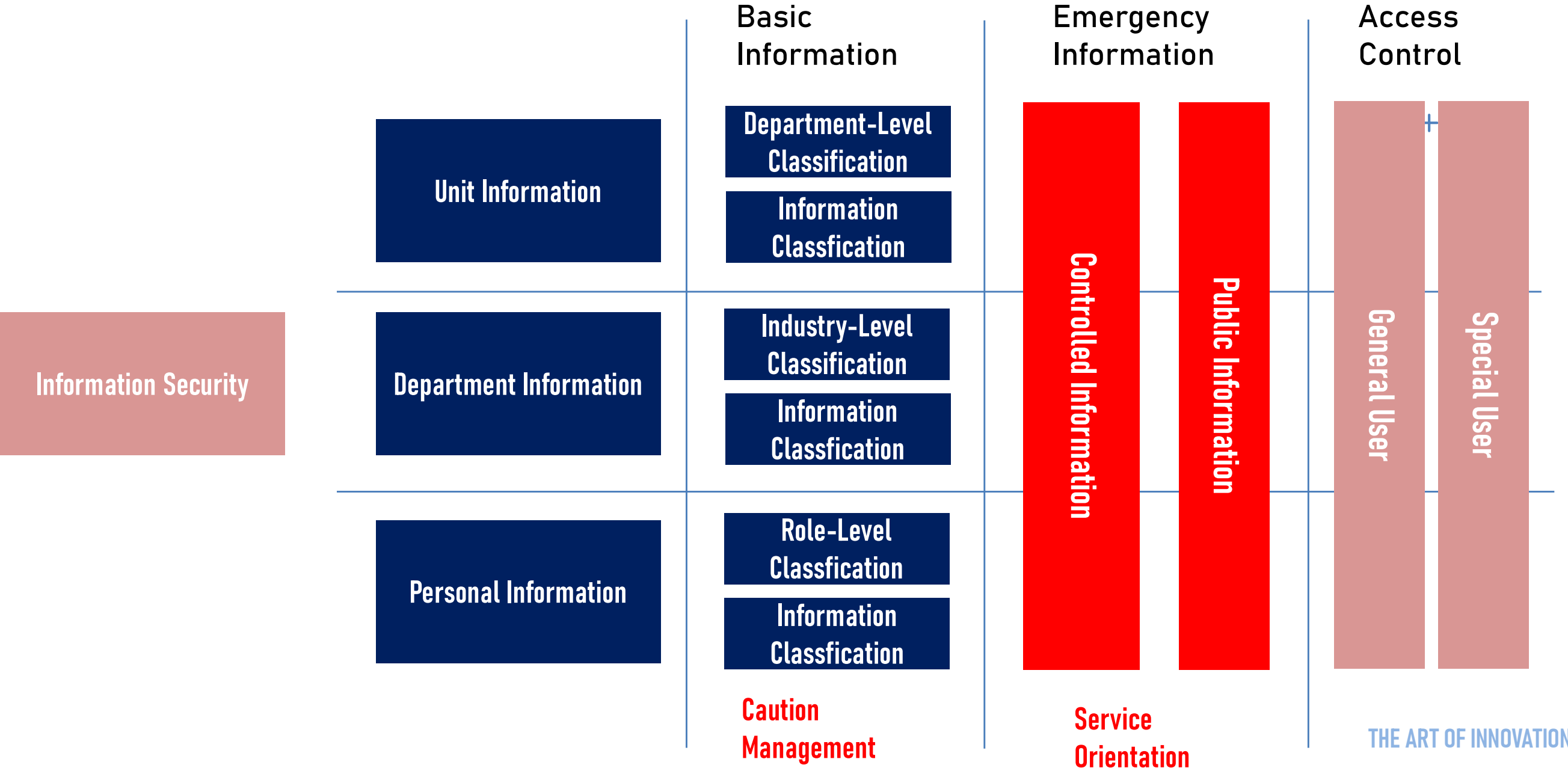
Provides real-time synchronization of incident locations, task reception, and confirmation of mobile enforcement assignments issued by the command center. Enables enforcement deployment, one-click emergency response, real-time dispatching, task monitoring, progress reporting on enforcement actions, and final reporting of completed enforcement activities, ensuring closed-loop management.



Audio-Visual Comprehensive Enforcement Dispatch Management

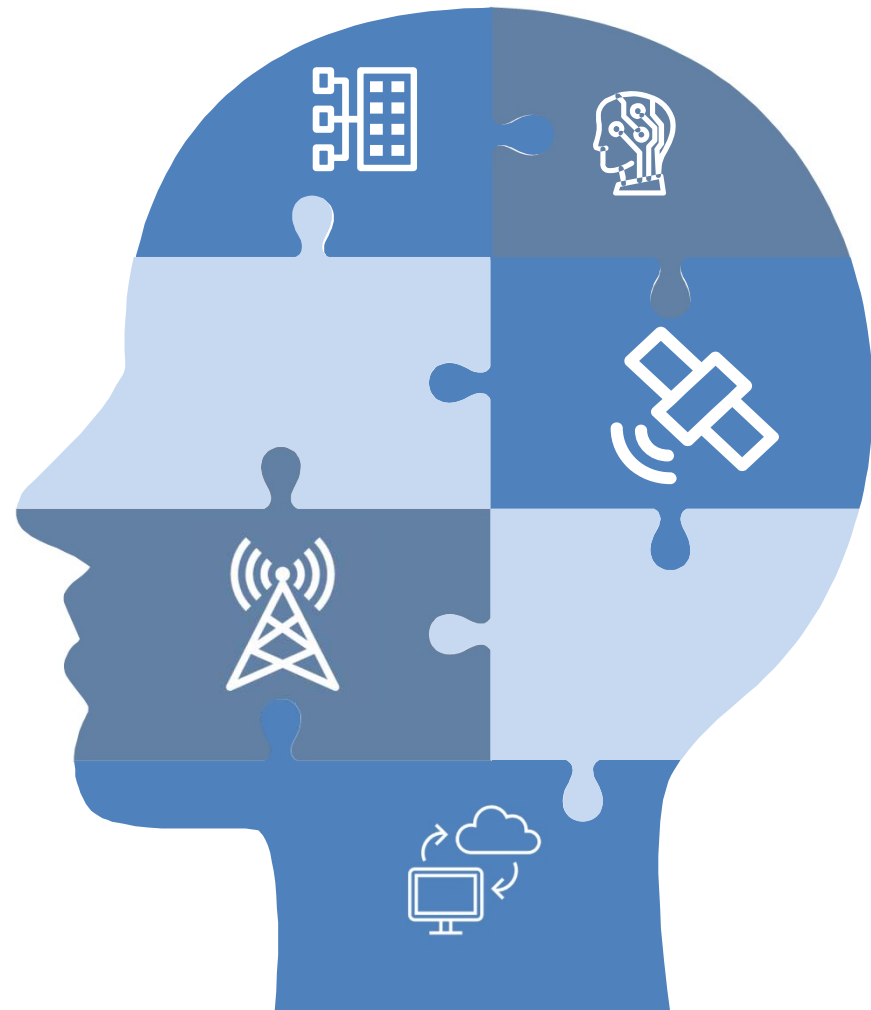
During duty or enforcement activities, the command center can respond to emergencies by initiating real-time audio and video communication with joint enforcement grid brigades. Supports individual calls, group calls, and team calls for comprehensive enforcement dispatch.

Technical Proposal-Security System



Technical Proposal-Key Technology

5 Key Technologies



Communication Technology

Integrate multiple communication technologies, including satellite communication, shortwave communication, ultra shortwave communication, and mobile communication, to achieve long-distance, high-capacity, and highly reliable data transmission.

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Information Integration Technology

Utilize data mining, data correlation, and information fusion algorithms to process information from various sources and formats, enhancing the accuracy and completeness of the data

Geographic Information System Technology

Through a GIS platform, enable functionalities such as map visualization, location tracking, route planning, and geospatial analysis, providing intuitive geographic information support for command and decision-making.

Cloud Computing and Big Data Technology

Build a cloud computing platform to enable the storage, management, and analysis of big data, uncovering potential value within the data and providing data-driven support for command decisions.

Artificial Intelligence Technology (AI)

Apply artificial intelligence technologies such as machine learning, deep learning, and expert systems to implement intelligent early warning, situational analysis, and decision-making assistance, thereby enhancing the intelligence level of the system.

Technical Proposal-Key Technology

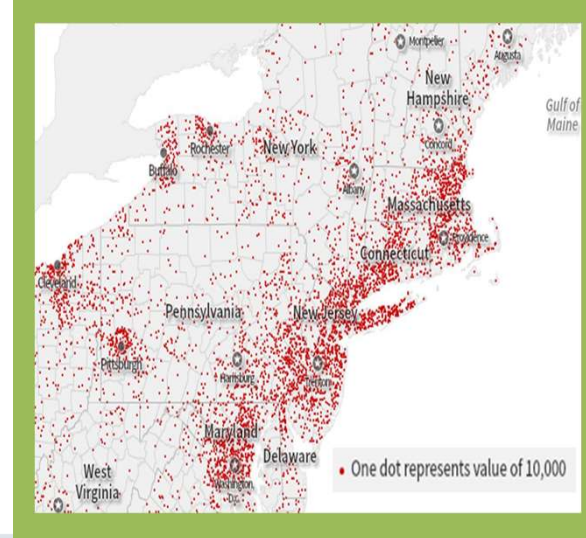
Comprehensive Law Enforcement: “One Platform”

Establish an integrated emergency comprehensive law enforcement platform based on a unified data sharing and exchange system. This platform ensures full coverage of comprehensive law enforcement information and enables information sharing and interconnectivity with video-optical systems, mobile patrols, and CCTV, effectively eliminating “information silos.”



Law Enforcement Handling: “One Map”

Utilizing geographic information technology, various joint law enforcement and response data are aggregated and overlaid on thematic maps. The information includes map details around the incident, station details, post locations, law enforcement team information, personnel positions, and trajectory data. This provides a robust foundation for decision-making in comprehensive law enforcement.



Law Enforcement Dispatch: “One Network”

Achieve interconnectivity between the emergency dedicated network, the internet, and mobile networks to enable information sharing. This ensures timely task dissemination, progress reporting, video feedback, real-time personnel monitoring, voice dispatch, and comprehensive control over the response process.

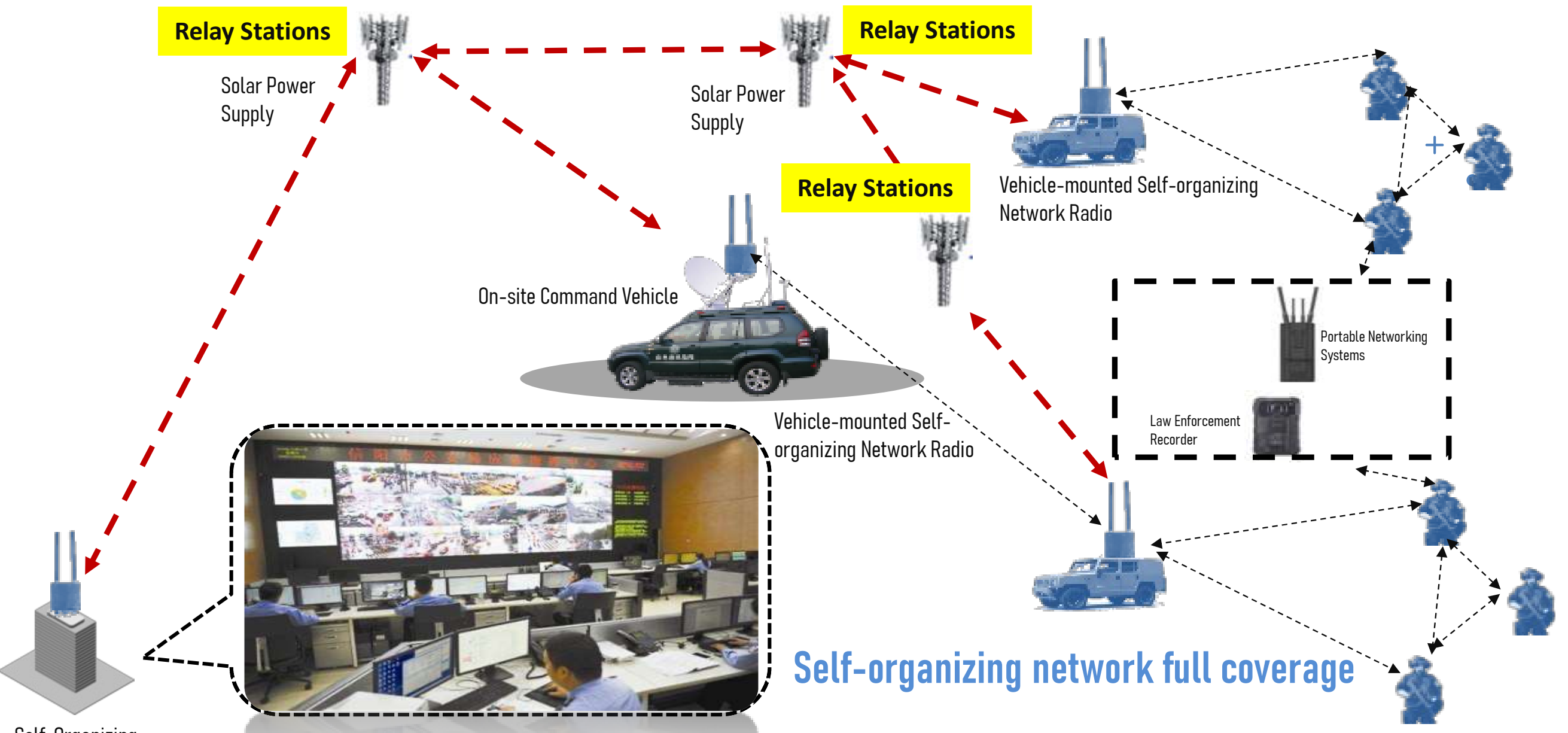


Joint Law Enforcement: “One Process”

Develop a comprehensive workflow for joint law enforcement response based on the emergency incident response plan. After an incident occurs, the response is carried out following this workflow. Data exchange between process stages is designed according to unified standards, and the workflow design adopts a “closed-loop” approach to ensure seamless execution.

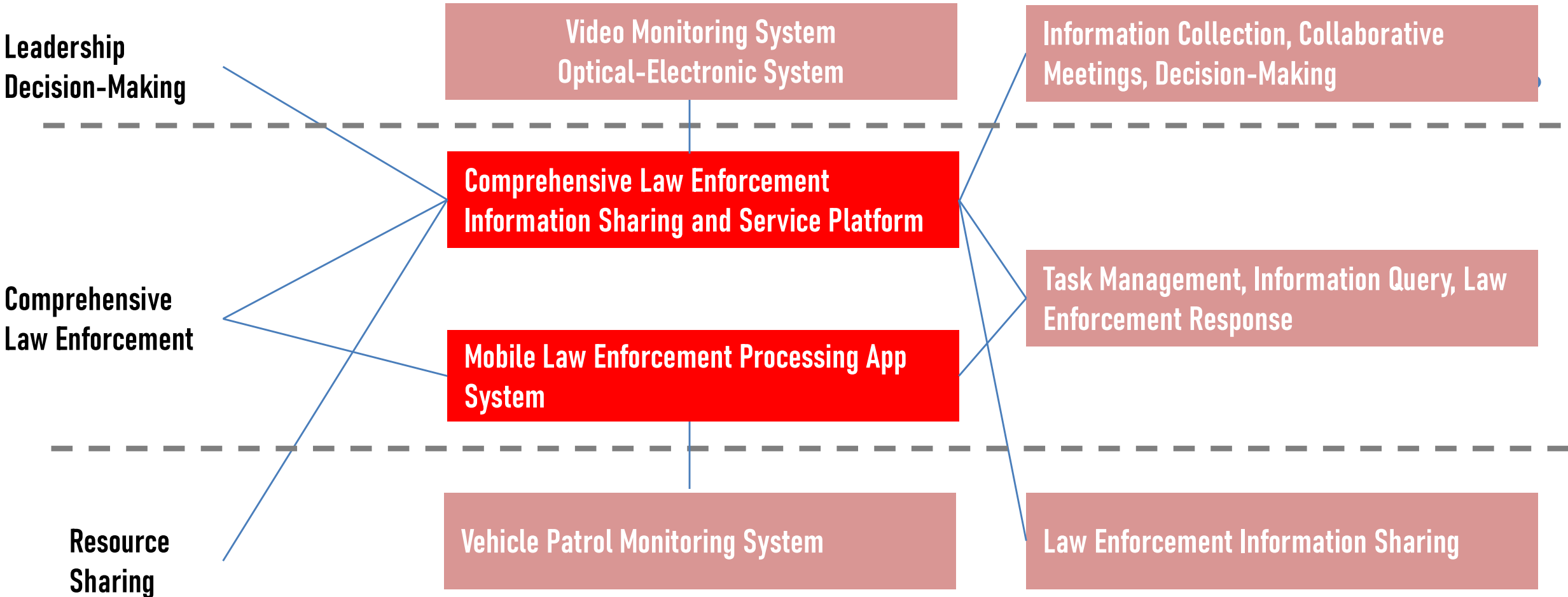


Technical Proposal-Key Technology

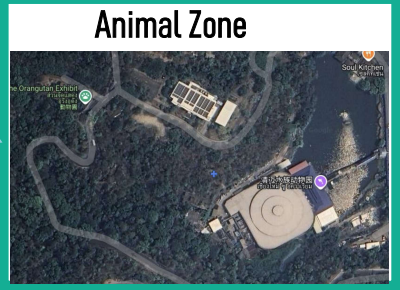
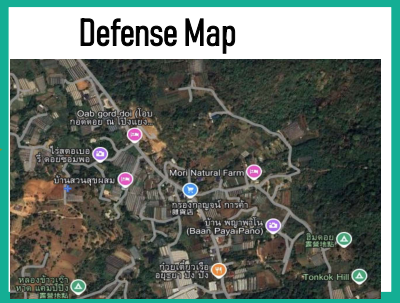
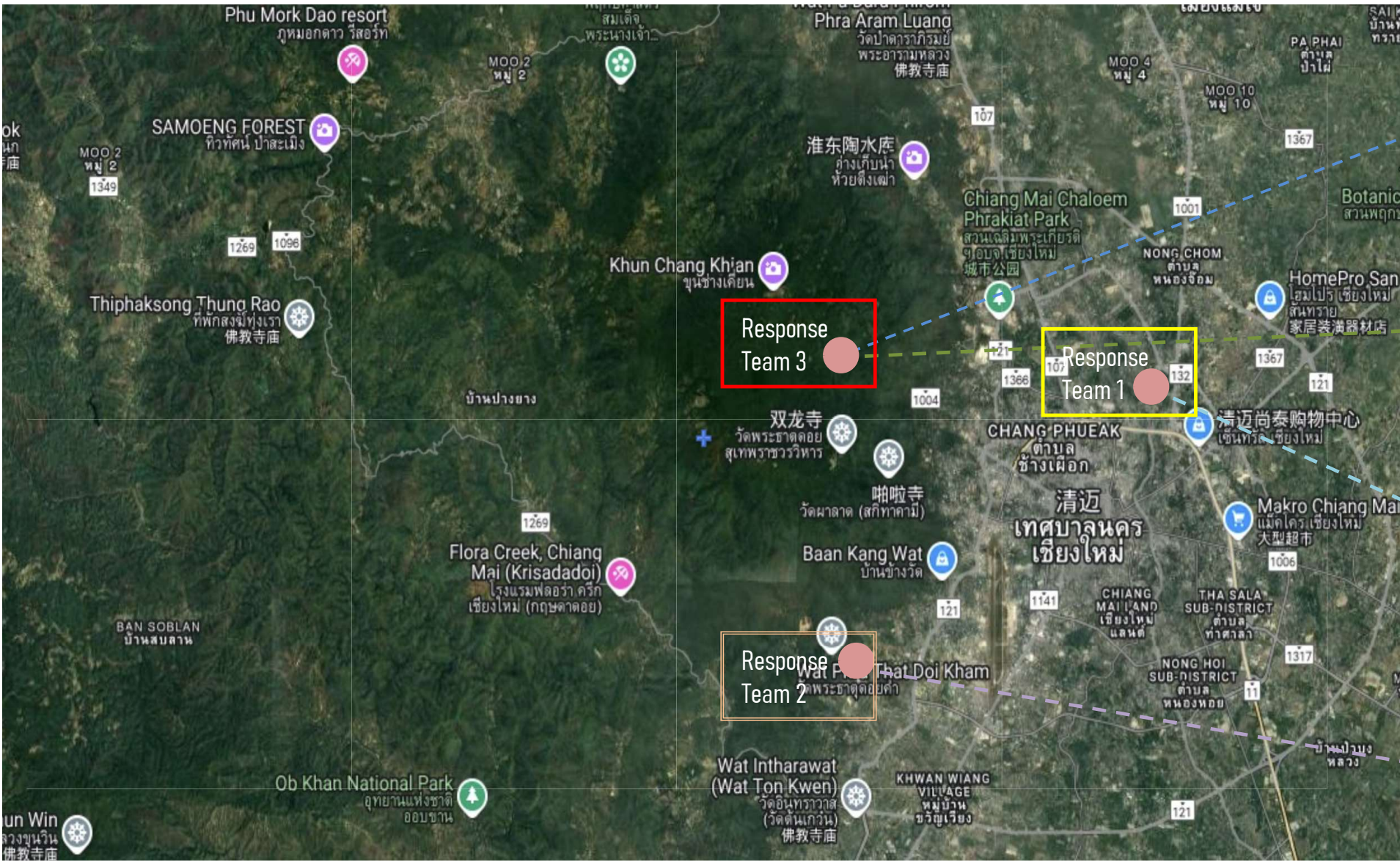


Self-organizing network full coverage

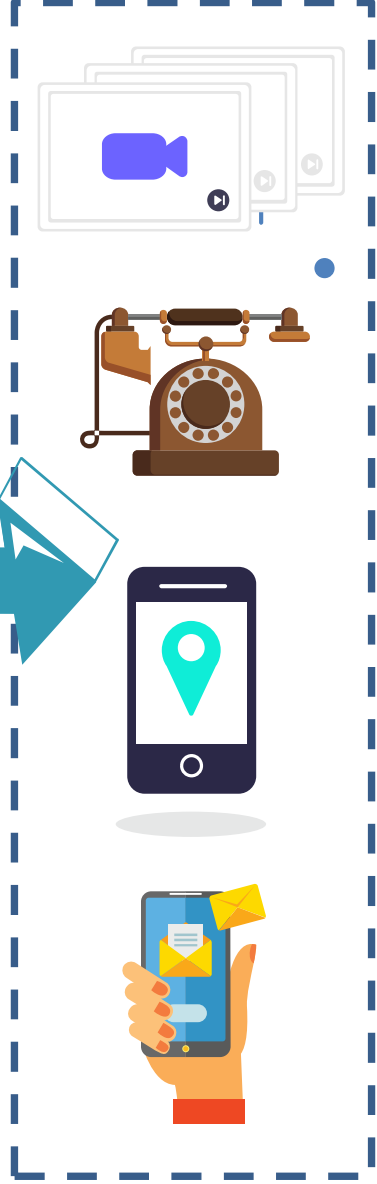
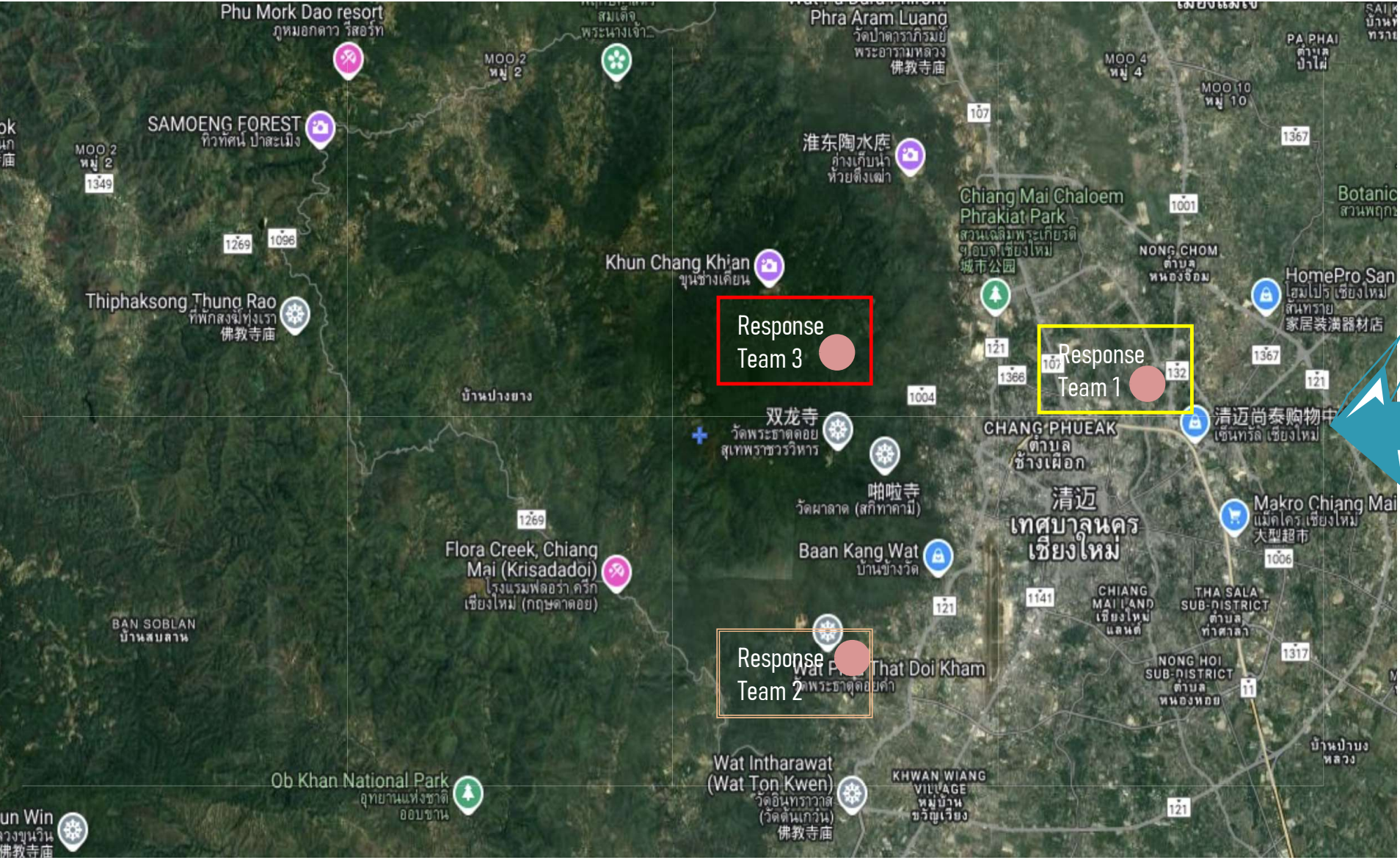
Technical Proposal-Comprehensive Law Enforcement “One Platform”



Technical Proposal-Comprehensive Law Enforcement Handling “One Map”

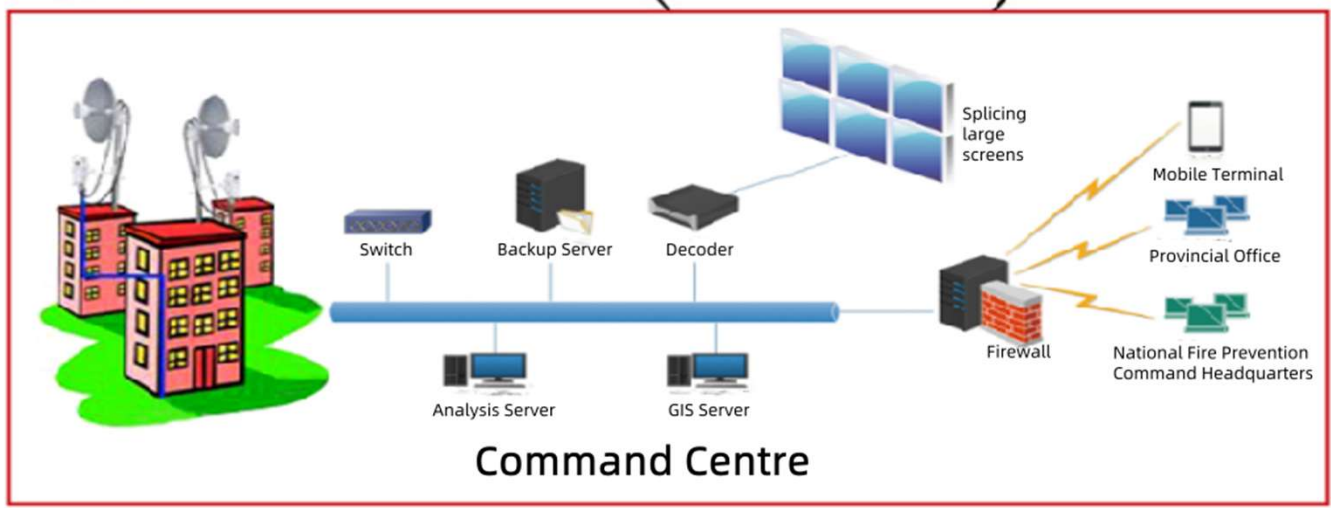
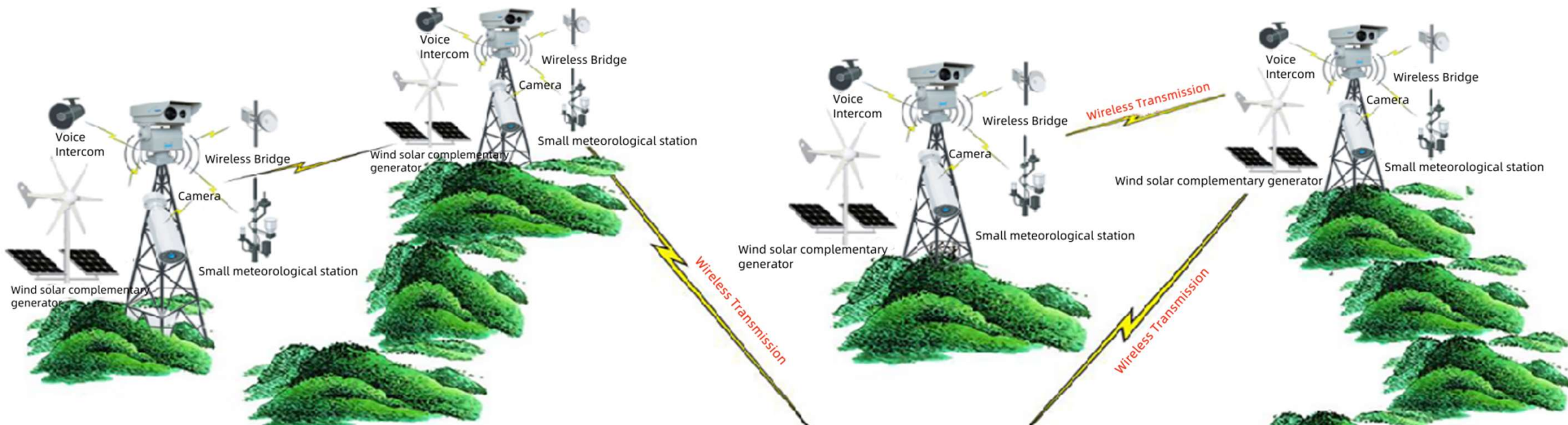


Technical Proposal-Comprehensive Law Enforcement Dispatch “One Network”



The integration of dedicated networks, the internet, and mobile networks forms a unified “One Network” for law enforcement dispatch.

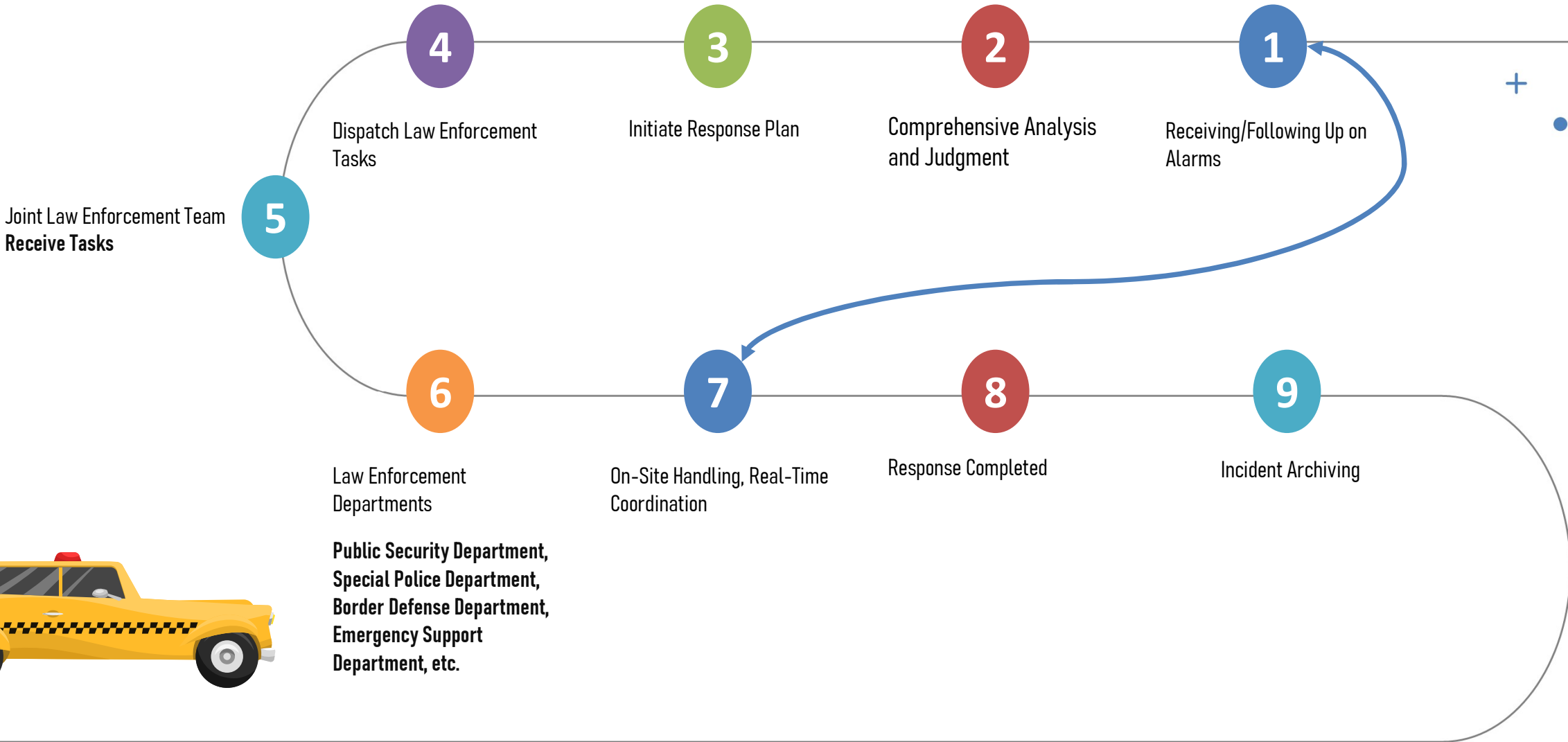
Technical Proposal-Aerial Surveillance and Monitoring "One Network"



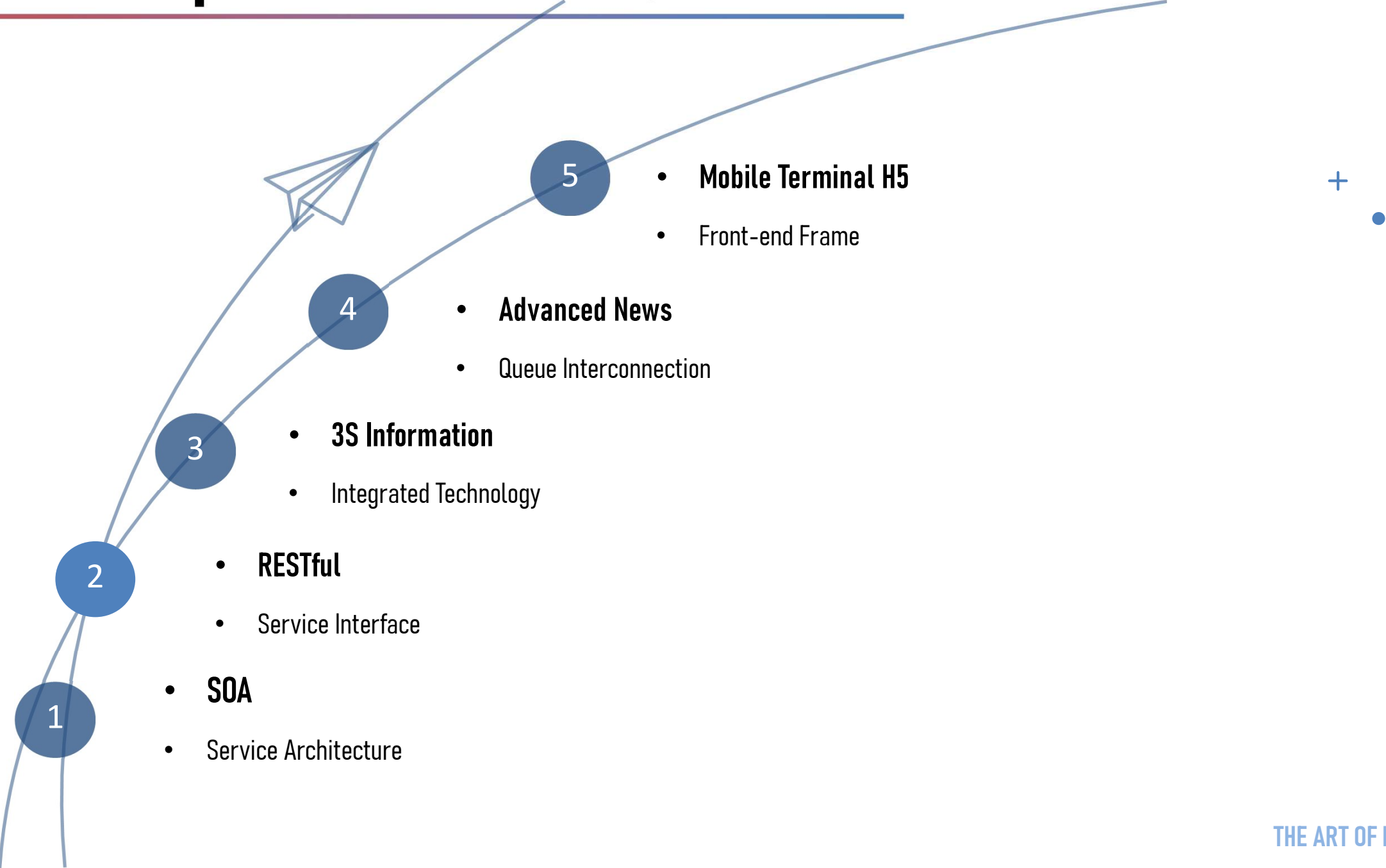
Technical Proposal-Checkpoint Monitoring



Technical Proposal - Joint Law Enforcement "One Process"



Technical Proposal-Technical Roadmap



Function Introduction

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Function Introduction- Integrated Command and Law Enforcement Platform

Comprehensive Law Enforcement One-Map Management

Map Display

Base Map Display: Displays the relevant base map of Thailand.
Law Enforcement Force Display: Public security law enforcement teams, special police enforcement teams, border law enforcement teams, emergency support teams, etc.
Law Enforcement Information Display: Law enforcement incident statistics, enforcement trajectory statistics, duty check-in statistics, response incident statistics, grid law enforcement personnel statistics, etc.

Map Operation

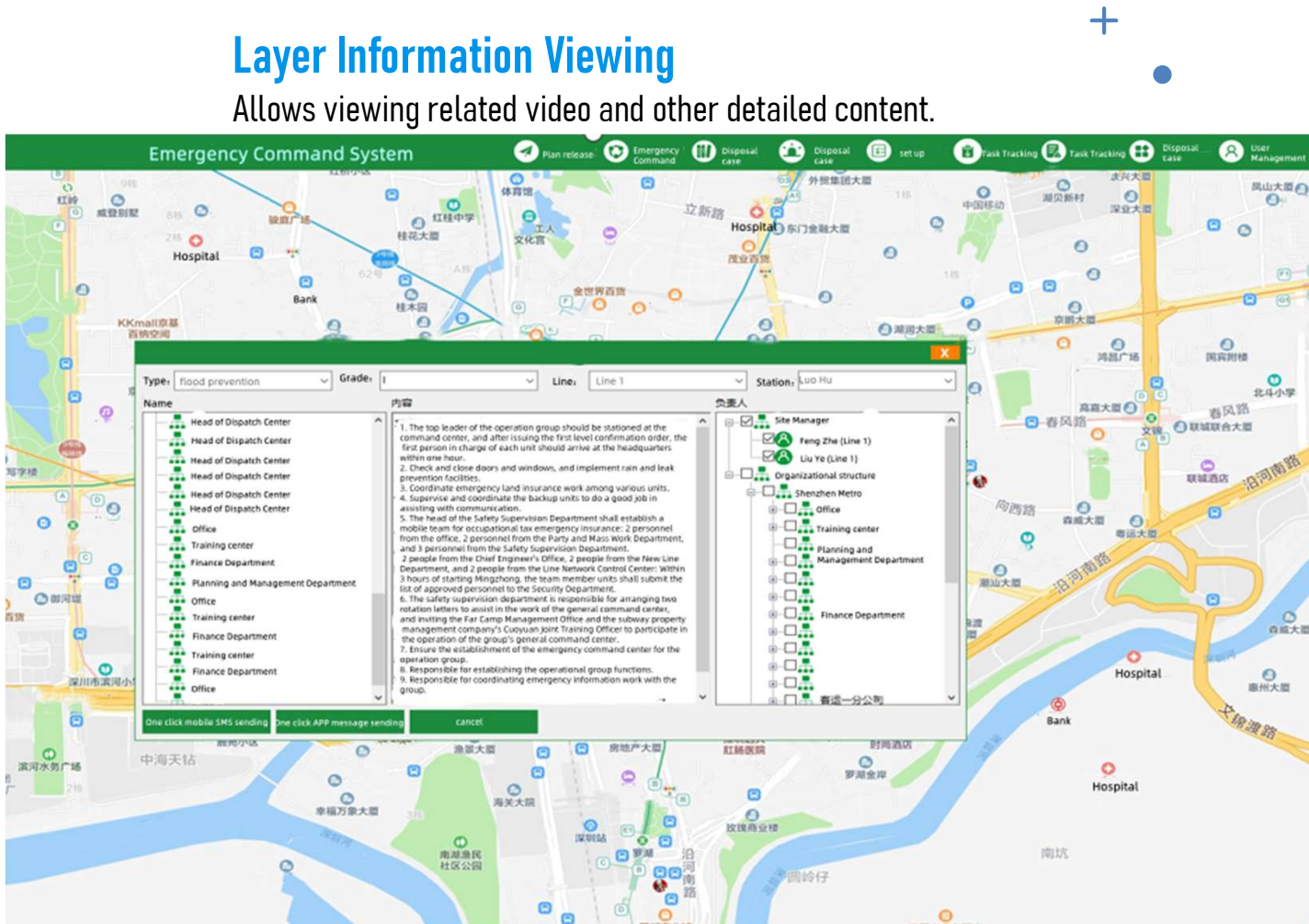
Allows panning, zooming in, and zooming out of the map.

Layer Management

Layer Management: Adding, overlaying, and deleting layers.
Layer Element Management: Element annotation, position modification, information editing, and deletion functions for layers.

Layer Information Viewing

Allows viewing related video and other detailed content.

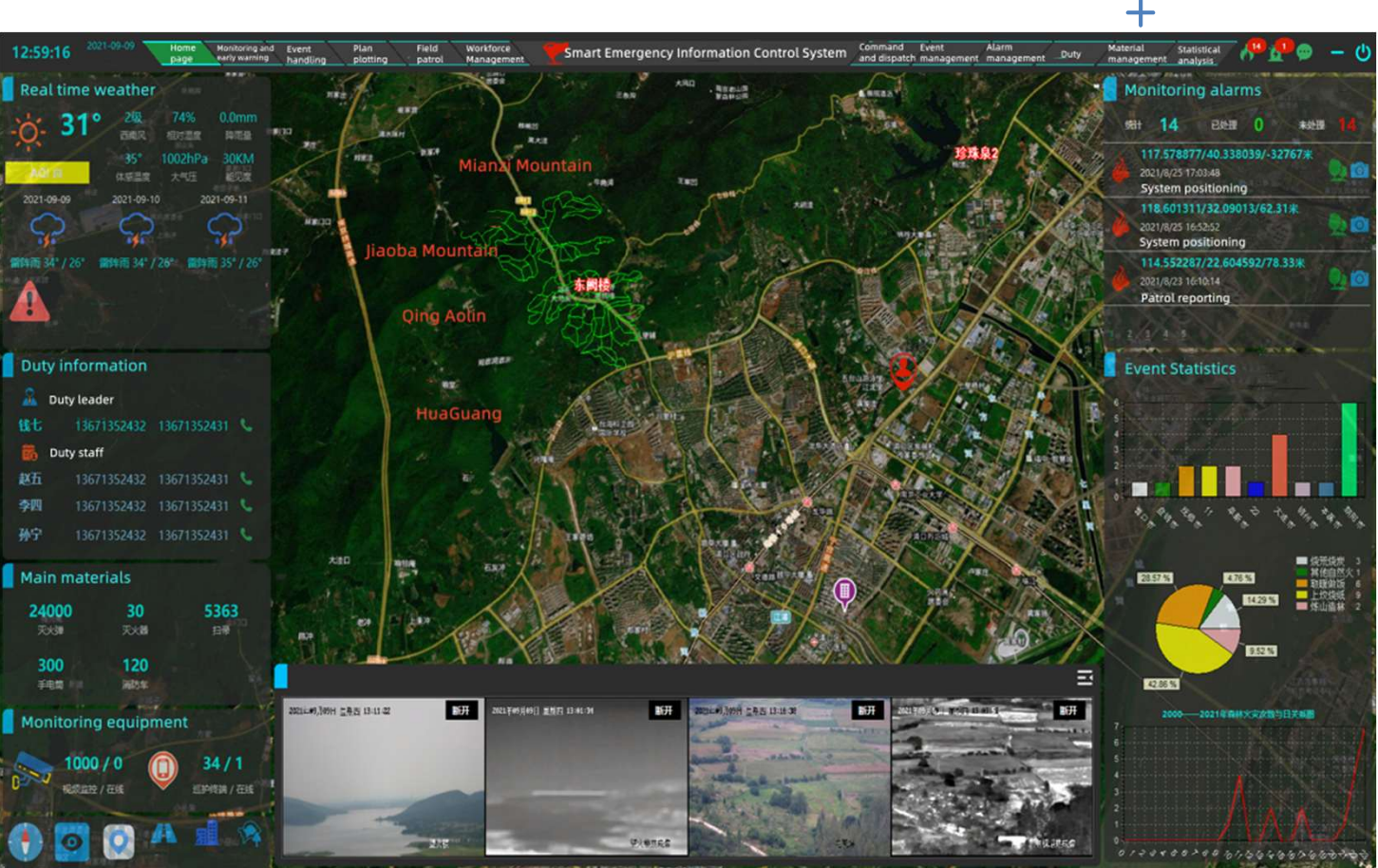


Function Introduction- Integrated Command and Law Enforcement Platform

Comprehensive Law Enforcement Dashboard Management

Comprehensive Law Enforcement Handling Dashboard

Various law enforcement information is comprehensively displayed, such as the number of on-duty personnel, law enforcement teams, law enforcement team members, number of incidents, number of law enforcement personnel in each grid, trajectory statistics, attendance statistics, etc. The dashboard information needs to interface and share with the CCTV system..

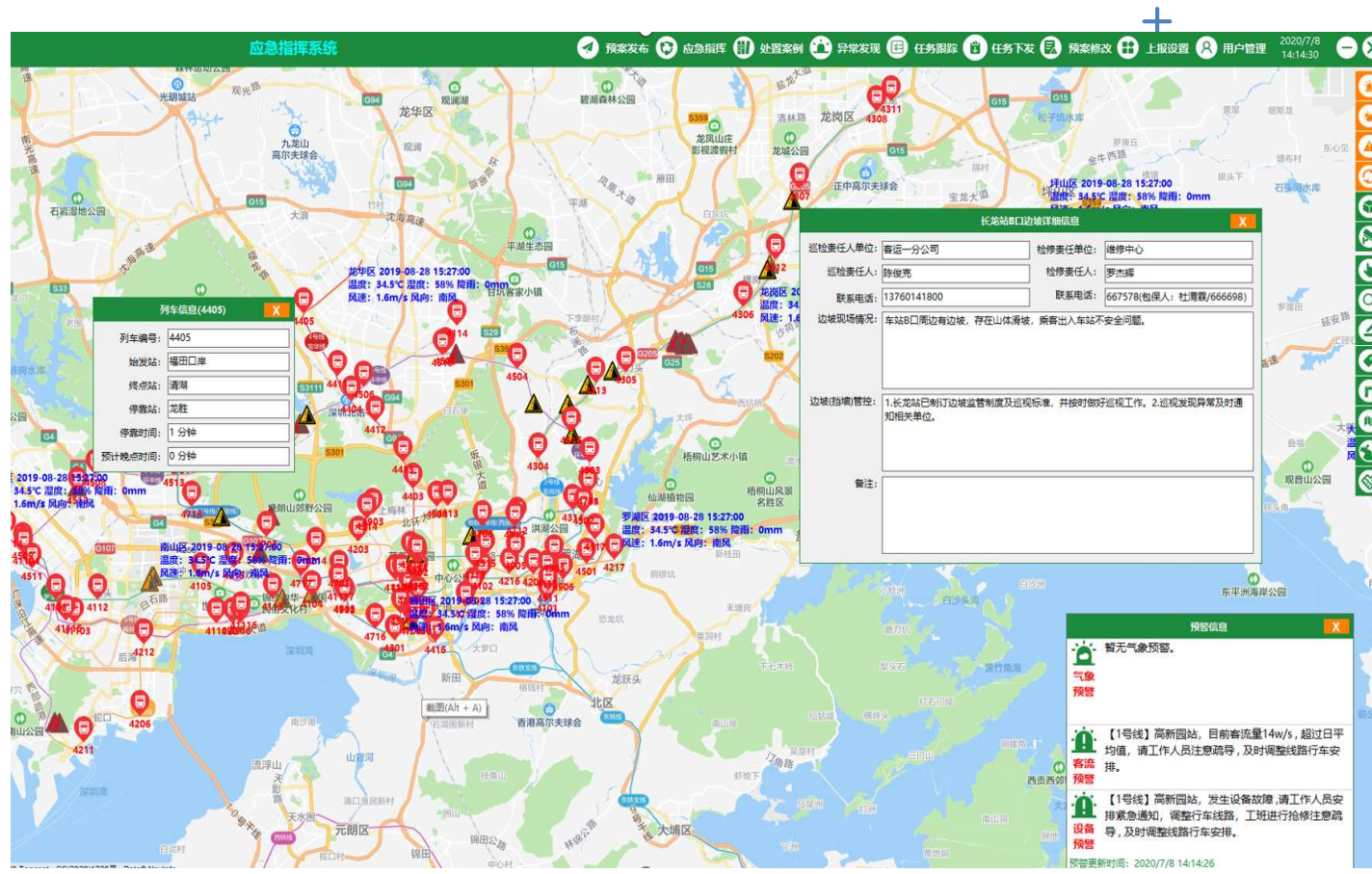


Function Introduction- Integrated Command and Law Enforcement Platform

Comprehensive Law Enforcement Grid Management

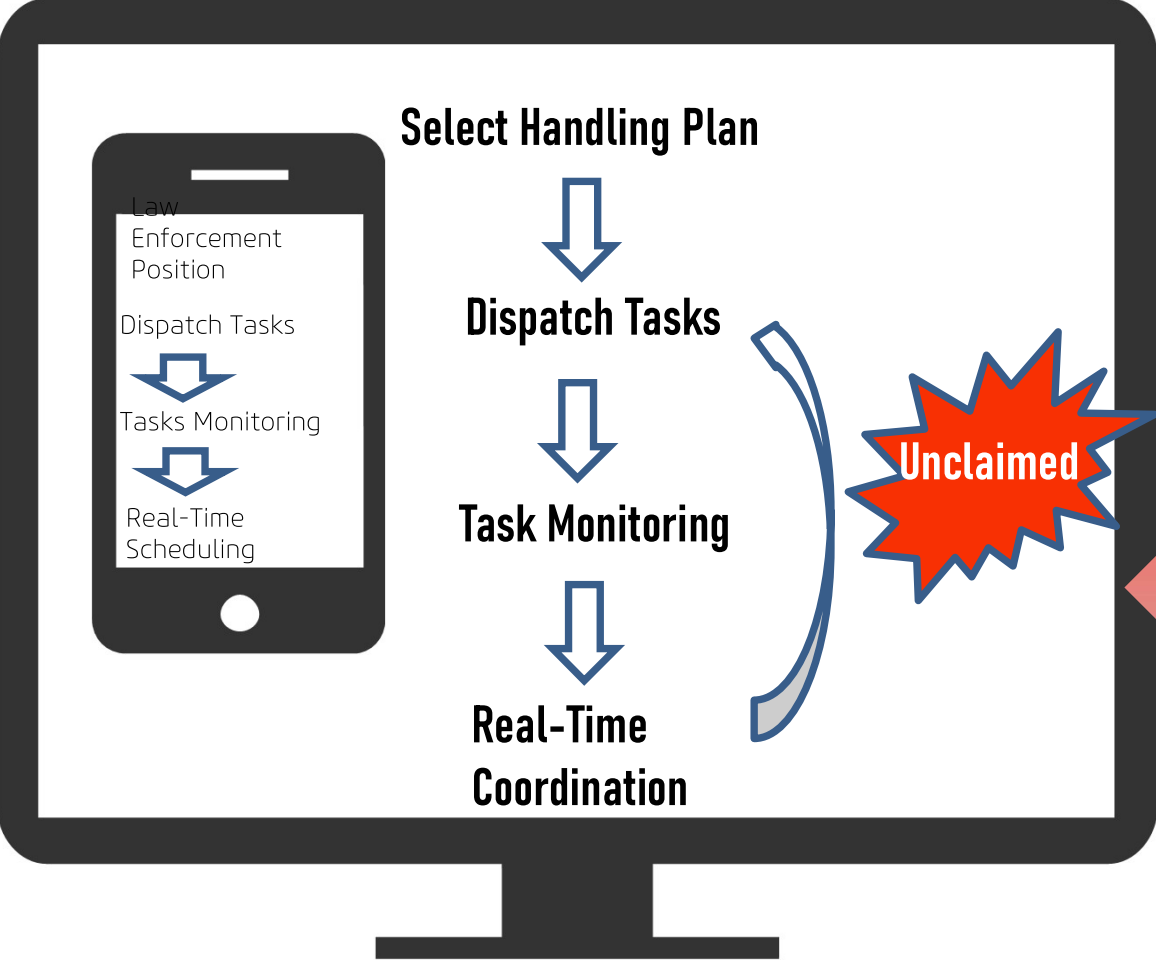
Comprehensive Law Enforcement Grid Management

Using enforcement grids as management units, it provides a detailed display of law enforcement team members in each grid, dispatched personnel, as well as the locations and trajectory information of sentry posts and joint law enforcement task forces.



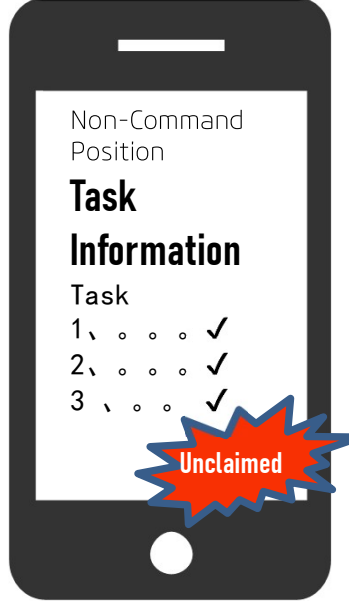
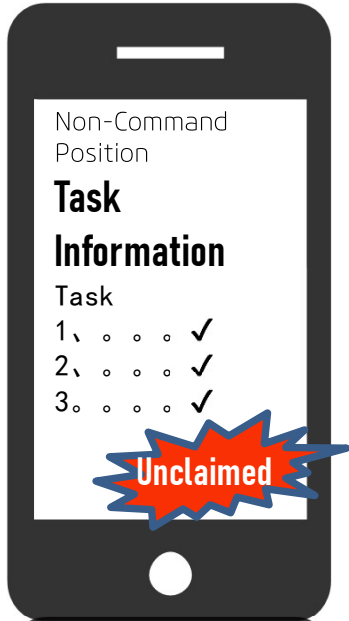
Function Introduction - Integrated Command and Law Enforcement Platform

Comprehensive Law Enforcement Closed-Loop Handling



Task Information
Real-Time
Communication

Real-Time Location,
Task Dispatch
Requests, Task
Progress



Function Introduction - Integrated Command and Law Enforcement Platform

Comprehensive Law Enforcement Closed-Loop Handling Management

Joint Law Enforcement - Emergency Incident Alarm Reception

Law Enforcement Alarm Reception:

When duty personnel receive a reported emergency incident from the aerial surveillance system, they assess the event type and level. Based on the situation, duty personnel can choose to activate the law enforcement response plan

Joint Law Enforcement - Emergency Task Dispatch

Task Assignment:

Duty personnel, based on the type of emergency incident and the water area where it occurred, dispatch tasks to the current patrol grid law enforcement team members. The system automatically generates a law enforcement task event.

Joint Law Enforcement - Automatic Alarm Reception

Task Reception and Processing:

Law enforcement grid personnel in the affected area receive the law enforcement task via an app. The app synchronizes the incident location information, enabling law enforcement personnel to navigate to the nearest land location for response via a one-click dispatch function.

Joint Law Enforcement - On-Site Law Enforcement

On-Site Confirmation:

Once law enforcement personnel arrive at the incident site, they confirm task completion by clicking the task button. Based on the situation, they document each step of the process via text, photos, or short videos, which are reported to the command center. The command center saves the corresponding law enforcement records for each processing step.

Law Enforcement Completion:

After completing the on-site task, law enforcement personnel click to end the task. Once reviewed by the command center, the task is marked as complete. Related information and video monitoring data are updated, and the integrated emergency command and dispatch system closes the task.

Location Monitoring:

Throughout the law enforcement process, real-time positioning and tracking information are sent to the command center and aerial surveillance monitoring system. This allows both systems to oversee and manage law enforcement team personnel throughout the process.



Function Introduction - Integrated Command and Law Enforcement Platform

Full-Process Control And Dispatch

Joint Law Enforcement – Task Monitoring

Task Acceptance/Claim Monitoring: Monitor the acceptance status of a specific task.

Personnel Location Monitoring: Monitor the execution of a specific task, including personnel location.

Task Progress Monitoring: Monitor the progress of a specific task.

Incident/Task Information Query: Quickly query an event or task and view its detailed information.

Joint Law Enforcement – Real-Time Audio and Video Dispatch

Personnel Mapping: After task confirmation, the map displays real-time positions of all involved personnel.

Temporary Task Assignment: If a need arises during task execution, task instructions can be issued in real time.

Real-Time Video: Dispatch personnel can retrieve live video to monitor on-site conditions

Instant Communication: Dispatch personnel can communicate with on-site emergency personnel in real time to understand task progress.

Task Completion: Dispatch personnel can conclude a specific task based on actual circumstances.

Joint Law Enforcement – Task Closure

Task Closure:

Once dispatch personnel receive confirmation that law enforcement has completed the incident, the task is closed.

Joint Law Enforcement – Law Enforcement Assessment

Law Enforcement Assessment:

Evaluate law enforcement personnel based on dispatch status, timeliness, and task completion.



Function Introduction- Integrated Command and Law Enforcement Platform

Multimedia Integrated Communication Dispatch System

Joint Law Enforcement Voice Integration

IP phones, analog phones, carrier phones, satellite phones, broadcasting systems, 350M digital trunking, public network trunking, etc.

Joint Law Enforcement Video Integration

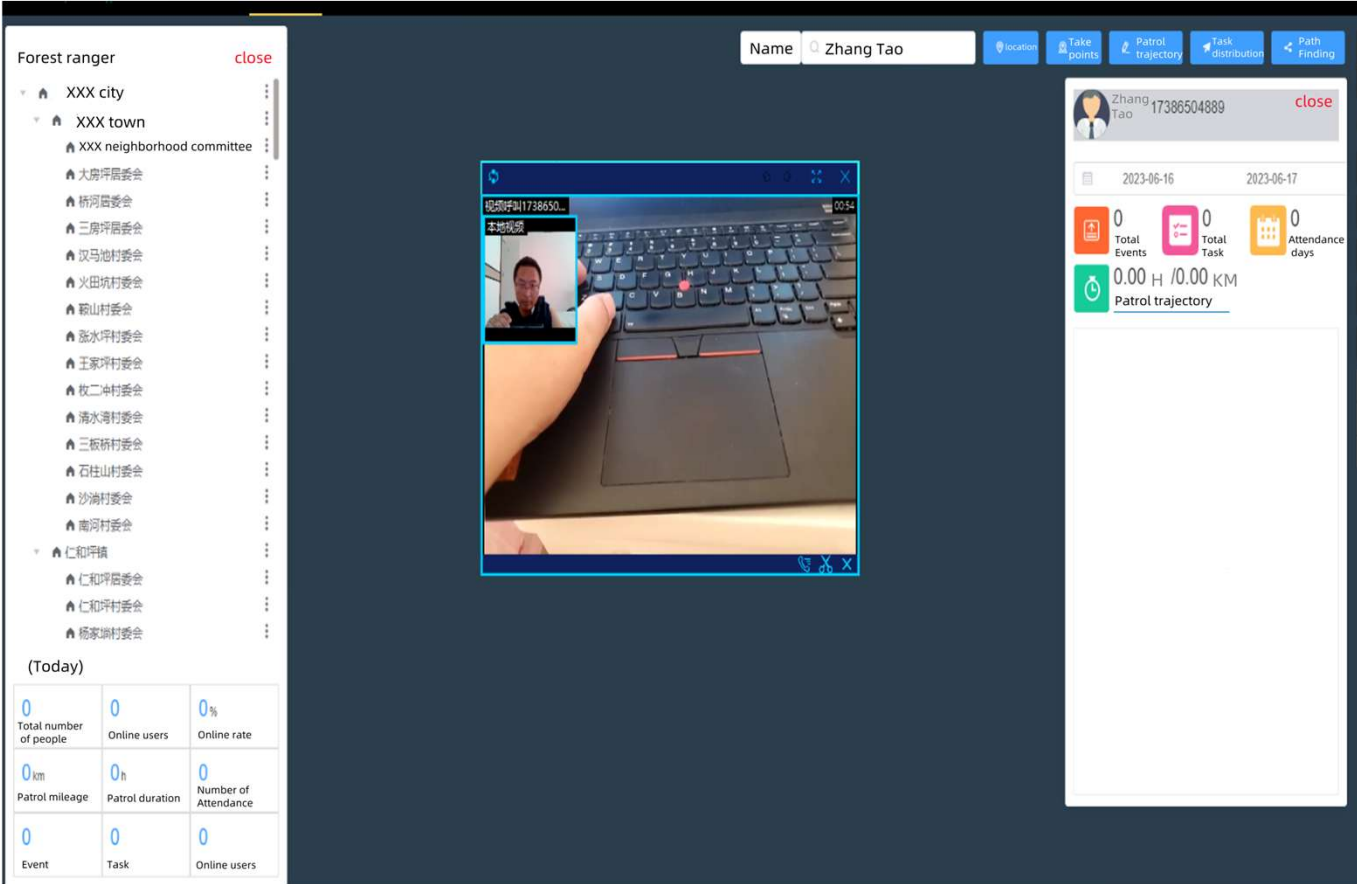
Public network trunking terminal video, surveillance ball video, IP network camera video, 28181 video interconnection, etc.

Protocol Support:

SIP, GB28181, RTMP, SS7 (Signaling System No. 7), PRI, R2 (R1 Signaling), CAS, Q.SIG, V5.2, DPNSS, T30, T38

Other Functions:

SMS, fax, instant messaging, GIS applications, data aggregation, AI applications.



Function Introduction- Integrated Command and Law Enforcement Platform

Seamless Integration with Existing Platforms

CCTV Video Monitoring System Integration Development:

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When the CCTV video system detects an emergency incident, it reports the event, and the data is transmitted to the integrated law enforcement app platform through the interface. This process generates a dispatch task, which is then managed within the integrated law enforcement system. Upon task completion, the results are sent to the comprehensive emergency command and dispatch system, forming a closed-loop process.

Secondly, the location information of the incident is synchronized with the integrated law enforcement system and app, facilitating ease of use for law enforcement personnel. During the enforcement process, the real-time location data of the personnel is transmitted back to the integrated law enforcement system through the interface, allowing for dynamic monitoring of law enforcement personnel.

Thirdly, on the integrated dashboard, duty numbers, attendance statistics, and incident counts must seamlessly integrate with the CCTV video monitoring system for real-time display.

Optoelectronic Surveillance System Integration Development:

The integration involves connecting video resources from the optoelectronic surveillance system, including public network trunking terminal video, surveillance ball video, IP network camera video, and 28181 video interconnection.

Mobile Law Enforcement Recorder Patrol System Integration:

During law enforcement dispatch processes, due to the complexity of the maritime environment, there are times when drones are required for patrol monitoring. The integrated law enforcement platform must interface seamlessly with the drone patrol system.

Function Introduction - Integrated Command and Law Enforcement Platform

User Management

Joint Law Enforcement - Contact Information Management:

Organization Management: Add, delete, modify, and query organization information.

Personnel Management: Add, delete, modify, and query personnel information

Import/Export: Existing contact information can be exported to Excel in a fixed format, or Excel information can be imported into the contact directory in a fixed format.

Joint Law Enforcement - Event Type and Level Management

Event Type Management: Add, delete, modify, and query event type information.

Event Level Management: Add, delete, modify, and query event level information.

Joint Law Enforcement - User Role and Permission Management

Role Management: Add, delete, modify, and query system user roles, and assign roles to users.

Permission Management: Configure different system permissions for different roles.

Function List								
system	Module	Operation name		Level filtering	Is it paginated	Reset verification	Authenticat ion	Operation
Basic platform	system	delete	/jff/system/delete	Yes	Yes	Yes	Yes	view edit reset
基础平台	模块	删除	/jff/module	是	是	是	是	查看 编辑 重置
基础平台	模块	树状图	/jff/module/treeData	是	是	是	是	查看 编辑 重置
基础平台	模块	保存	/jff/module/save	是	是	是	是	查看 编辑 重置
基础平台	模块	删除	/jff/module/delete	是	是	是	是	查看 编辑 重置
基础平台	模块	更新	/jff/module/update	是	是	是	是	查看 编辑 重置
基础平台	菜单	删除	/jff/menu	是	是	是	是	查看 编辑 重置
基础平台	菜单	树状图	/jff/menu/treeData	是	是	是	是	查看 编辑 重置
基础平台	菜单	保存	/jff/menu/save	是	是	是	是	查看 编辑 重置
基础平台	菜单	更新	/jff/menu/update	是	是	是	是	查看 编辑 重置

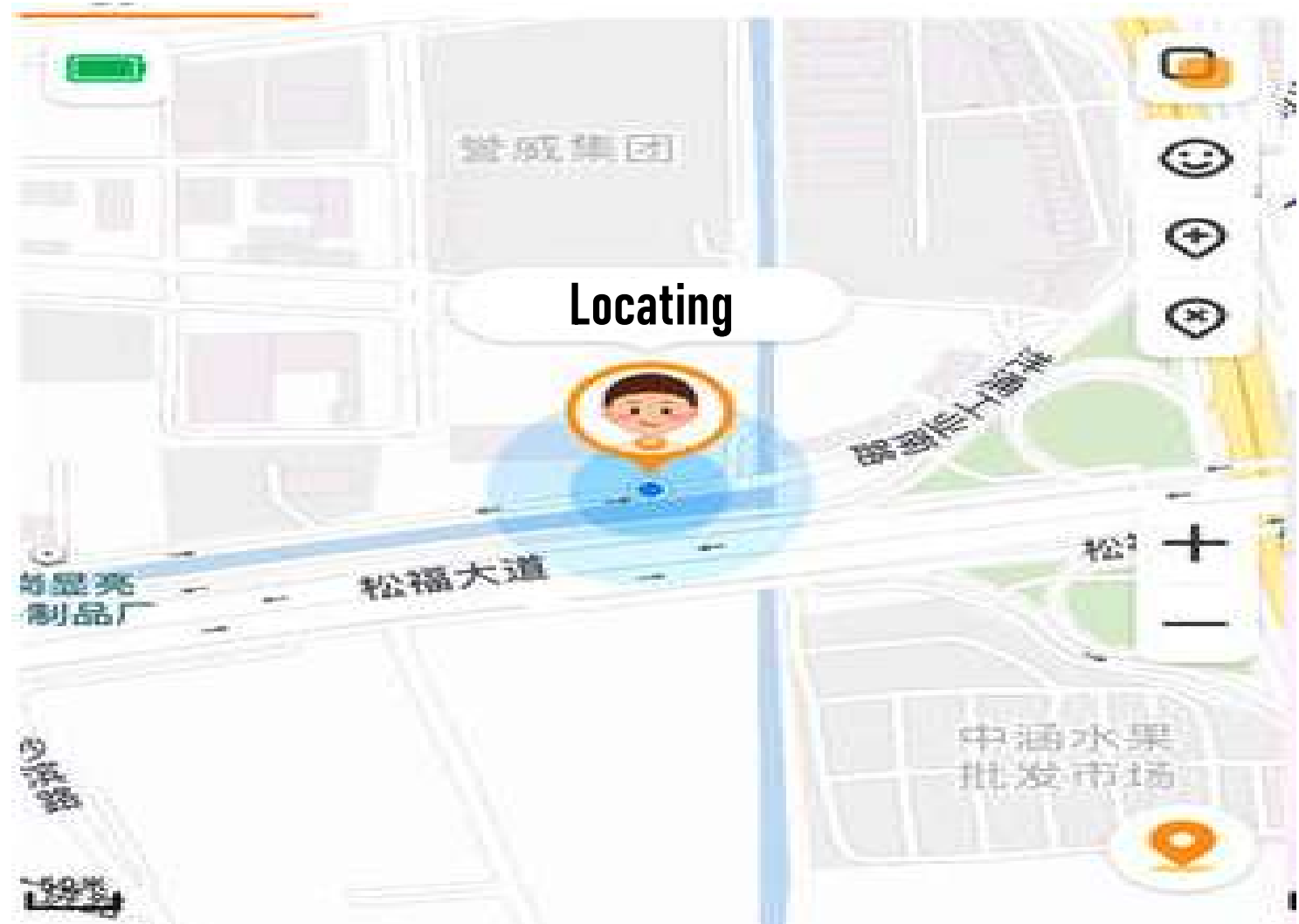
Function Introduction - Mobile Law Enforcement Handling Function/Basic Functions

Mobile Law Enforcement - Basic Functions

Login: Log in using the integrated law enforcement APP and access the system through the APP interface portal.

Position Confirmation: After entering the system page, select a position; the relevant content for that post can then be queried and received.

Area Confirmation: Perform on-duty check-in afterward.



Function Introduction - Mobile Law Enforcement Handling Function/Map

Joint Law Enforcement - Map Display

Base Map Display. Displays maritime defense-related nautical charts and base maps.

Layer Display. Displays information for all joint law enforcement units, including Public Security Law Enforcement Brigades, SWAT Law Enforcement Brigades, Border Defense Law Enforcement Brigades, Emergency Support Units, law enforcement vehicles, and material warehouses. It also includes maritime defense video surveillance information, emergency incident data, emergency command drills, and field comprehensive deployments.

Joint Law Enforcement - Basic Map Operations

Map panning, zooming in, and zooming out operations are supported.

Joint Law Enforcement - Layer Information Viewing

Detailed information for relevant stations and other data can be viewed



Function Introduction - Mobile Law Enforcement Handling Function/Post Management

Mobile Law Enforcement Grid Management

Displays the number of law enforcement personnel in each grid for joint enforcement teams, including information on currently active personnel and those responding to incidents.

Mobile Law Enforcement Positioning Management

Displays the current location information of mobile law enforcement personnel. This location data is simultaneously transmitted to the integrated law enforcement platform's command center and the video monitoring system platform.

Law Enforcement Trajectory Management

Displays the current trajectory of mobile law enforcement activities. This trajectory information is also sent back to the integrated law enforcement platform's command center and the video monitoring system platform.

Routine Law Enforcement Reporting

Routine patrol and enforcement reports submitted via mobile devices, including text, photos, and short videos.



Function Introduction - Mobile Law Enforcement Handling Function

Integrated Law Enforcement Handling Management

Joint Law Enforcement Unit Task Reception/Claiming

Task Reception: Based on the incident reported, the command center assigns tasks to the law enforcement personnel of the joint enforcement teams through the integrated law enforcement app. The app prominently notifies users of the task details, while also synchronizing the incident's location information. Law enforcement personnel can view the event, task, and related information.

Task Claiming: After verifying the task details, law enforcement personnel accept the task and initiate mobile enforcement. They can then use one-click navigation to the nearest land location to the incident.

Unclaimed Task Warning: If a task is not claimed after being received by the joint enforcement unit, the command center platform issues a reminder every 3 minutes.

Joint Law Enforcement - Reporting Handling Progress

On-Site Confirmation: After arriving at the incident location, law enforcement personnel must perform on-site confirmation. If necessary, they can send updates to the command center via text, photos, or short videos. The current confirmation location information is also transmitted to the integrated law enforcement platform and video monitoring platform.

Handling Progress Reporting: Law enforcement personnel report on key process nodes during the handling procedure by uploading text, photos, or short videos to the command center. During the enforcement process, location and trajectory information are uploaded to the integrated management platform and video monitoring platform to facilitate monitoring of law enforcement personnel.

Task Completion: After completing the task, law enforcement personnel submit a task completion request. Upon receiving and confirming the request, the command center marks the task as complete. This directive is also sent to the video monitoring platform to close the handling of the suspicious incident.

Handling Support: Law enforcement personnel can request enforcement support from the command center at any time based on the situation. The command center assigns additional tasks to provide on-site support as needed, ensuring timely resolution of emergency incidents.



Function Introduction - Mobile Law Enforcement Handling Function

Integrated Law Enforcement Handling Management

Joint Law Enforcement - Emergency Incident Dispatch

Based on the on-site handling situation of law enforcement personnel, command center dispatchers can make real-time adjustments. Through audio or video calls, they can initiate single calls, group calls, or broadcast calls to front-line law enforcement personnel for remote dispatching, ensuring faster task completion.



Joint Law Enforcement - Law Enforcement Personnel Dispatch Requests

Mobile law enforcement personnel can request dispatch support from the command center based on the handling situation. The command center, considering the situation of the on-site law enforcement personnel, conducts comprehensive dispatch coordination to promptly address the needs of mobile law enforcement personnel.

Joint Law Enforcement - Access to Law Enforcement Documentation

Provides the ability to query past successful and exemplary law enforcement handling cases. Relevant documents can be accessed through the mobile law enforcement app.

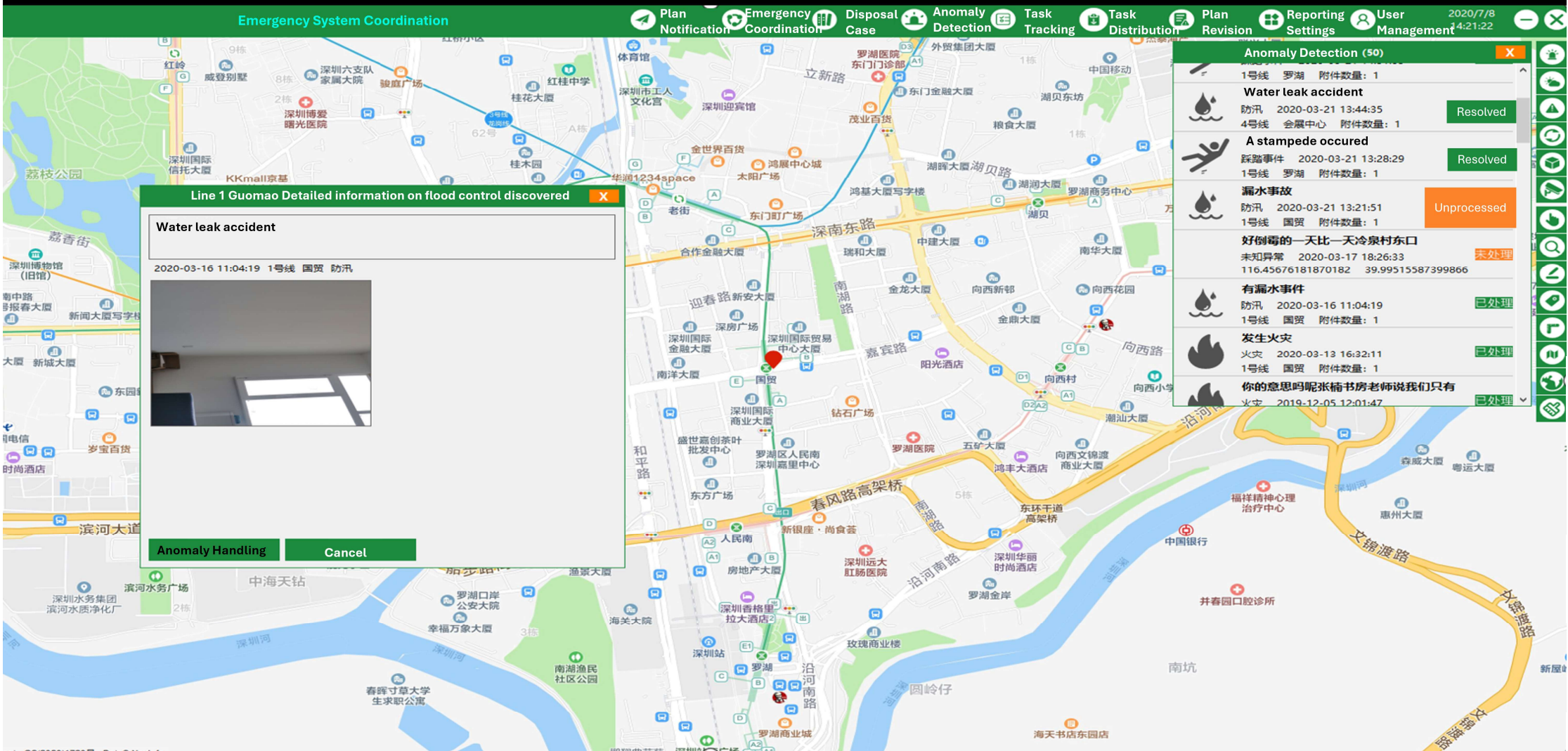
Scene Application

THE ART OF INNOVATION



Scene Application-Integrated Law Enforcement One-Map Management

Integrated Law Enforcement One-Map Management: Includes map display, basic map operations, layer management, layer information viewing, vessel display, incident handling display, law enforcement team display, and other comprehensive information.



Scene Application-Integrated Handling Dashboard

Integrated Law Enforcement Handling Dashboard: Displays a comprehensive range of law enforcement information, such as the number of personnel on duty, the number of vessels, the number of law enforcement team members, the number of anti-smuggling incidents, the number of grid law enforcement personnel, trajectory statistics, attendance statistics, and more. The dashboard information must be interfaced and shared with the video monitoring system.

The dashboard is titled "Smart Emergency Information Management and Control System" and features a comprehensive set of data and controls. The top navigation bar includes tabs for Home Page, Monitoring and Early Warning, Incident Handling, Plan Mapping, Field patrol, Shift Management, Dispatch and Coordination, Incident Management, Alarm Management, duty watch, Inventory Management, and Data Analysis. The main interface is divided into several key sections:

- Real-time Weather:** Displays current conditions (31°C, Level 2, 74% humidity, 0.0mm rain) and historical data for the past few days.
- Duty Information:** Lists active personnel, including Qian Qi, Zhao Wu, John Doe, and Sun Ning, with their contact details and status.
- Main Supplies:** Tracks essential equipment such as 24,000 fire bombs, 30 fire extinguishers, and 5,363 brooms.
- Monitoring Alarms:** A list of 14 active alarms, including fire incidents and system warnings, with details on time and location.
- Event Statistics:** A bar chart showing the relationship between the number of fires and their causes across different districts.
- Pie Chart:** A pie chart illustrating the distribution of fire causes, with categories like Other natural fires (42.86%), Heating and cooking (28.57%), and others.
- Video Surveillance:** Four live video feeds showing various outdoor scenes, including a lake, a field, and a road.

Scene Application-Integrated Law Enforcement Closed-Loop Management

Integrated Law Enforcement Closed-Loop Management: Upon receiving a suspected anti-smuggling incident, the system initiates the enforcement plan, assigns handling tasks, conducts real-time dispatching, monitors law enforcement tasks, completes the law enforcement handling process, and allows for incident queries. This constitutes a comprehensive closed-loop management system for law enforcement operations.

The screenshot displays the 'Smart Emergency Information Control System' interface. At the top, a navigation bar includes 'Home page', 'Monitoring and early warning', 'Event handling', 'Plan plotting', 'Field patrol', 'Workforce Management', 'Command and dispatch', 'Event management', 'Alarm management', 'Duty', 'Material management', and 'Statistical analysis'. The main area features a 3D map of an industrial site with several key elements:

- Emergency response timeline (left):** A vertical list of 9 steps: 1. The special emergency team rushed to the scene; 2. Emergency information network activation; 3. Emergency resource allocation; 4. Police demarcation at the scene of the accident; 5. Accident scene rescue; 6. Release alert; 7. Post accident handling; 8. Accident investigation; 9. Rescue Summary Review.
- Map Labels:** 'On site cordon' (yellow dashed line), 'Line Support Team' (red circle), 'Lingao TC' (red circle), 'Lingao Phase I LX' (purple box), 'Lingao Phase I AC' (purple box), 'Lingao Phase 2 AC' (purple box), and '岭澳运行控制组' (purple box).
- Emergency Command Center (right):** Lists personnel including 'Emergency Commander PED' (Minister Zhang, 13671352431), 'Emergency Special Team' (Minister Zhang, 13671352431), and 'Emergency critical supplies' (Mobile diesel generator vehicle, Diesel Engine Support Group).
- Disposal task (bottom right):** Shows statistics for 7 tasks, with 0 processed and 7 unprocessed. A task 'Quickly rush to the scene for security and isolation' is listed with details: 防火 | 张阿强 | 2021-09-09 13:48:10 | 发电机1 无人机1.

Scene Application-Integrated Law Enforcement Scheduling Management

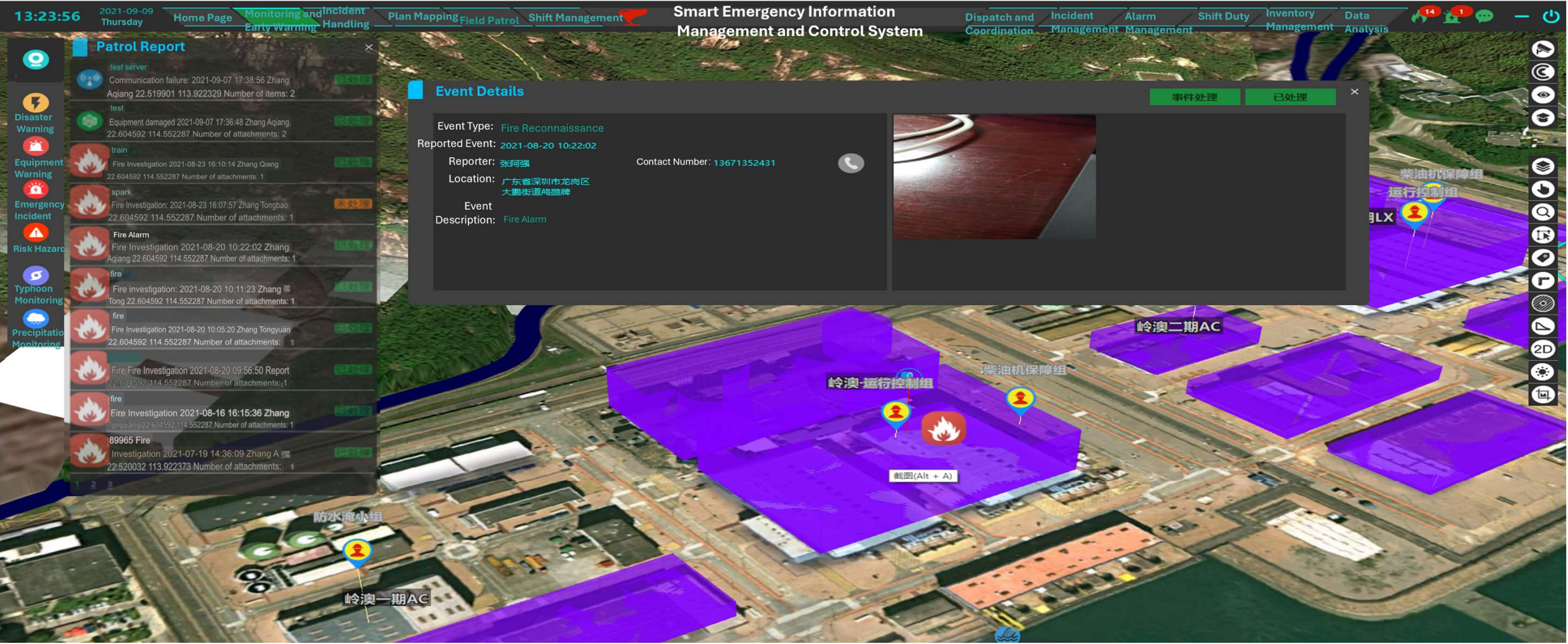
Integrated Law Enforcement Scheduling Management: Automatically displays scheduling information based on the check-in status of each grid's Law enforcement teams. It shows the duty status of joint law enforcement teams within each grid unit.

August 2023 Forest Protection Patrol in Wufeng County

	two	three	four	five	six	day
	01 set up Tan Bing (team leader) Yang Hui (day shift) Shang Weidong (night shift)	02 set up Tan Bing (team leader) Yang Hui (day shift) Wang Zhiming (night shift)	03 set up Tan Bing (team leader) Yang Hui (day shift) Qin Jingge (night shift)	04 set up Tan Bing (team leader) Yang Hui (day shift) Wei Tao (night shift)	05 set up Tan Bing (team leader) Zou Hongsong (day shift) Zou Hongsong (night shift)	06 set up Tan Bing (shift leader) Song Yuanhao (day shift) Song Yuanhao (night shift)
07 set up Ning Zongzhen (class leader) Yang Hui (day shift) Wang Zhenwei (night shift)	08 set up Ning Zongzhen (shift leader), Yang Hui (day shift), Deng Huaili (night shift)	09 set up Ning Zongzhen (team leader) Yang Hui (day shift) Li Xiaoyin (night shift)	10 set up Ning Zongzhen (team leader) Yang Hui (day shift) Chen Yunxi (night shift)	11 set up Ning Zongzhen (team leader) Yang Hui (day shift) Wang Lingling (night shift)	12 set up Ning Zongzhen (shift leader) Xiong Zhiqiang (day shift) Xiong Zhiqiang (night shift)	13 set up Ning Zongzhen (team leader) Li Hongjiang (day shift) Li Hongjiang (night shift)
14 set up Jiang Guanghua (shift leader), Yang Hui (day shift), Tan Yuting (night shift)	15 set up Jiang Guanghua (shift leader), Yang Hui (day shift), Zhou Xiaofeng (night shift)	16 set up Jiang Guanghua (shift leader), Yang Hui (day shift), Sun Ping (night shift)	17 set up Jiang Guanghua (shift leader), Yang Hui (day shift), and Qin Shaowu (night shift)	18 set up Jiang Guanghua (shift leader), Yang Hui (day shift), Wang Minghuan (night shift)	19 set up Jiang Guanghua (shift leader) to Anchong (day shift) to Anchong (night shift)	20 set up Jiang Guanghua (shift leader) Qin Yan (day shift) Qin Yan (night shift)
21 set up Wang Yintao (shift leader), Yang Hui (day shift), Yan Lu (night shift)	22 set up Wang Yintao (shift leader), Yang Hui (day shift), Zhu Youchun (night shift)	23 set up Wang Yintao (shift leader), Yang Hui (day shift), Liu Guozhong (night shift)	24 set up Wang Yintao (shift leader), Yang Hui (day shift), Zhou Guoyong (night shift)	25 set up Wang Yintao (shift leader), Yang Hui (day shift), Wan Xiaoyan (night shift)	26 set up Wang Yintao (shift leader) Yang Wusong (day shift) Yang Wusong (night shift)	27 set up Wang Yintao (shift leader) Xiao Chunfang (day shift) Xiao Chunfang (night shift)
28 set up Tang Guoguo (shift leader) Yang Hui (day shift) Yang Hui (night shift)	29 set up Tang Guoguo (shift leader) Yang Hui (day shift) Sang Ziyang (night shift)	30 set up Tang Guoguo (shift leader), Yang Hui (day shift), Wei Xiaolang (night shift)	31 set up Tang Guoguo (shift leader) Yang Hui (day shift) Liu Zhuxuan (night shift)			

Scene Application- Joint Law Enforcement Incident Reception and Handling (Example)

Display various types of joint law enforcement incident reception and handling information from the command center on a unified map, creating an “Incident Reception and Monitoring Map” that includes video monitoring, incident reception and handling, emergency events, wildlife monitoring, and video surveillance.



Scene Application - Integrated Law Enforcement Closed-Loop Handling - Task Progress Tracking

View the **task execution status of joint law enforcement units** for various emergency handling tasks, as well as **on-site audio and video materials**.

Mission details

78%

Issue → take over → arrive → Dispose → Finish

Issue time: 2021-08-16 15:28:19 Receiving time: Arrival time: 2021-08-14 13:20:23 Disposal time: 2021-08-14 13:20:23 Completion time: **2021-08-14 13:20:23**

Task number: SZMC_20210816152847_132 Disaster level: 1 Task Assignment: Emergency Command Center 1

Disaster Type: Fire Time of occurrence: 2021-08-16 15:28:19 Occurrence site: 114.553079,22.605062 Task Description: Shidafu Shifan Shengfeng

carry supplies 11111: 50

15:28:48 2021-08-16 69999 Scholer-official Shifan Shengfeng

2021-08-16 15:30:12 The task has been accepted

2021-08-16 16:18:16

2021-08-16 16:18:37

Scene Application-Integrated Law Enforcement Dispatch

Emergency Law Enforcement Team Position Tracking

Based on the integrated law enforcement handling team, conduct audio and video dispatching, location tracking, and positioning for each group and individual members within the joint law enforcement units.

The screenshot displays the 'Smart Emergency Information Management and Control System' interface. The top navigation bar includes 'Home Page', 'Monitoring and Early Warning', 'Incident Handling', 'Plan Mapping', 'Field Patrol', and 'Shift Management'. The main area features an aerial map with a red location pin for '张阿强(13671352431)'. A 'Patrol List' sidebar on the left shows an organizational structure with units like '指挥中心' and '应急指挥中心'. A 'Video Monitoring' window on the right shows a video feed of a person in a control room. At the bottom, there are controls for 'Audio', 'Video', 'News', 'Details', 'Track', 'Group Call', 'Group Message', and 'Location Services'. A notification at the bottom center states 'In a video call with Zhang Aqiang'.

Scene Application-Integrated Law Enforcement Dispatch

Full-Process Control of Emergency Incident Handling

Based on integrated emergency command, ensure full-process control of emergency incident handling.

The screenshot displays the 'Integrated Comprehensive Emergency System' interface. At the top, it shows the date '2022.05.23' and time '17:33:24'. The main workflow is divided into four stages: 'Regular Time Operations', 'Monitoring and Warning', 'Incident Handling' (highlighted in red), and 'Post-Incident Recovery'. A 'Response Process' panel on the right details the steps: 'Respond to the Scene' (Completed, 2022-02-23 13:00:00), 'Step 1: Emergency Assembly', 'Step 2: Inspect Equipment', and 'Step 3: Proceed to the Incident Site'. The 'Incident List' on the left shows three entries, each with a '29.5%' progress indicator and a 'Current Incident' status. The 'Live Video' and 'Rescue Team' sections are also visible at the bottom left.

DATE 2022.05.23 17:33:24

Integrated Comprehensive Emergency System

Fire Incident Grade 1 Simulation

Regular Time Operations Monitoring and Warning Incident Handling Post-Incident Recovery Response Process

Incident List

- 29.5% **In Progress**
Incident Name: The landslide occurred on the XX section of the highway.
Occurrence Time: 2022-03-09
Current Incident
- 29.5% **处置中**
事件名称: 公路段xx, 发生山体滑坡
公路段xx, 发生山体滑...
发生时间: 2022-03-09 00:09:
Toggle Incident
- 29.5% **处置中**
事件名称: 公路段xx, 发生山体滑坡
公路段xx, 发生山体滑...
发生时间: 2022-03-09 00:09:
Current Incident

Response Process

- Respond to the Scene 2022-02-23 13:00:00
Completed
- Step 1: Emergency Assembly
- Step 2: Inspect Equipment
- Step 3: Proceed to the Incident Site

赶赴现场 已完成 2022-02-23 13:00:00

- 第一步 紧急集合
- 第二步 检查设备
- 第三步 前往事故地点

赶赴现场 已完成 2022-02-23 13:00:00

- 第一步 紧急集合
- 第二步 检查设备
- 第三步 前往事故地点

Live Video

Rescue Team

Scene Application-Integrated Law Enforcement Dispatch/Visual Display

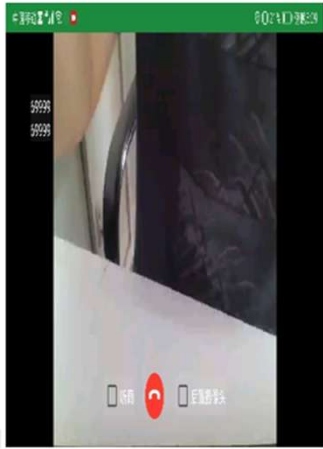
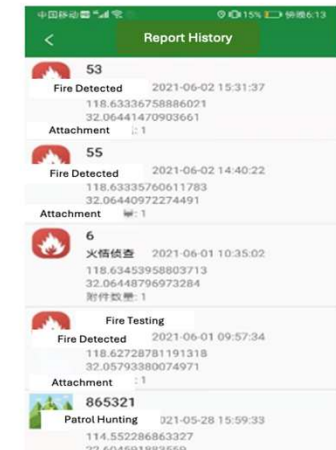
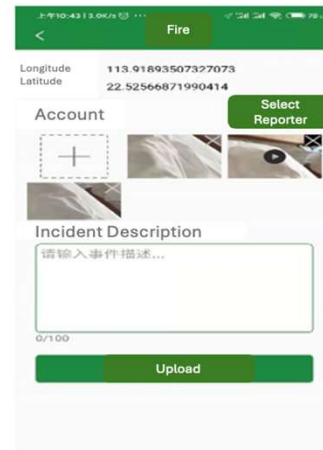
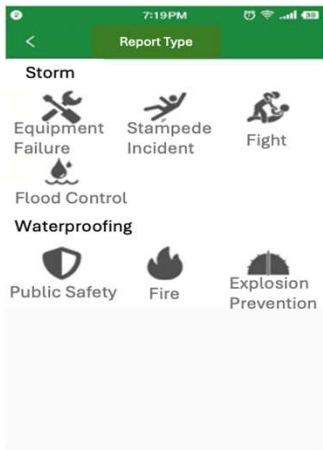
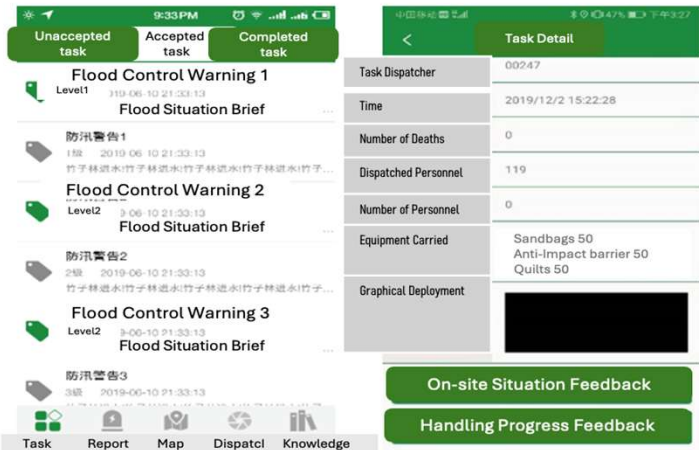
Based on integrated emergency command, **Visual Display**.



Scene Application- Integrated Law Enforcement Mobile Emergency Closed-Loop Handling

Mobile Closed-Loop Emergency Law Enforcement

Based on integrated law enforcement mobile handling, enable rapid law enforcement response and achieve closed-loop mobile joint law enforcement management. This includes task reception and assignment by integrated law enforcement units, incident reporting, incident handling, one-map visualization of law enforcement command, resource viewing, contact directory access, law enforcement dispatching, Law enforcement event archives, and full-process supervision of handling procedures.





Thank you

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