

Safe City Compact Solution



—BORN FOR SMALL AND MEDIUM CITIES



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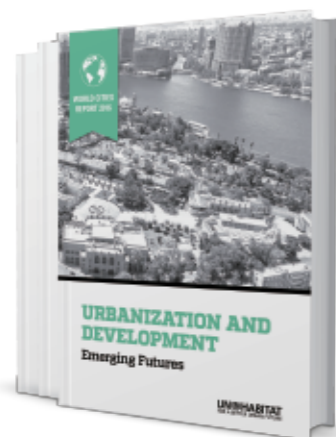




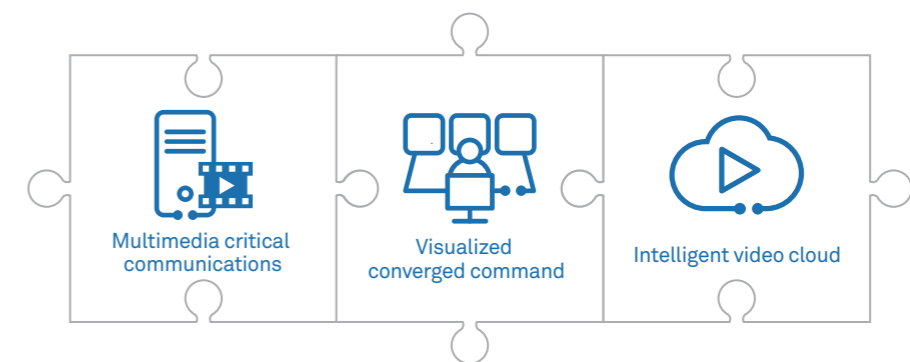
Safe City Compact Solution

1 Safe City Compact Solution Introduction

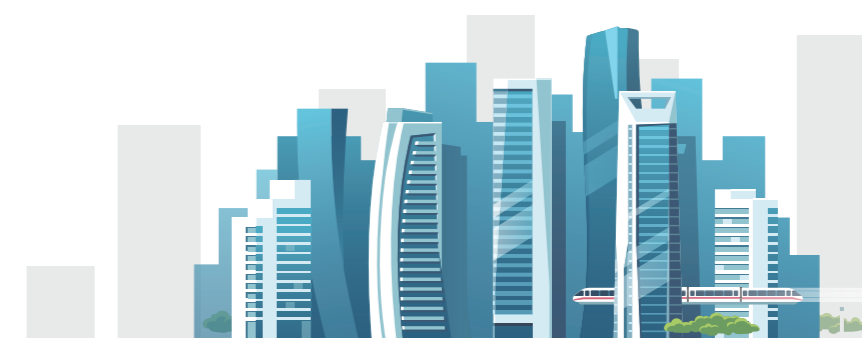
According to the United Nations' World Cities Report 2016, small and medium cities (population < 1 million) now have the fastest growth rate in all cities and accommodate 59% of the world's urban population.



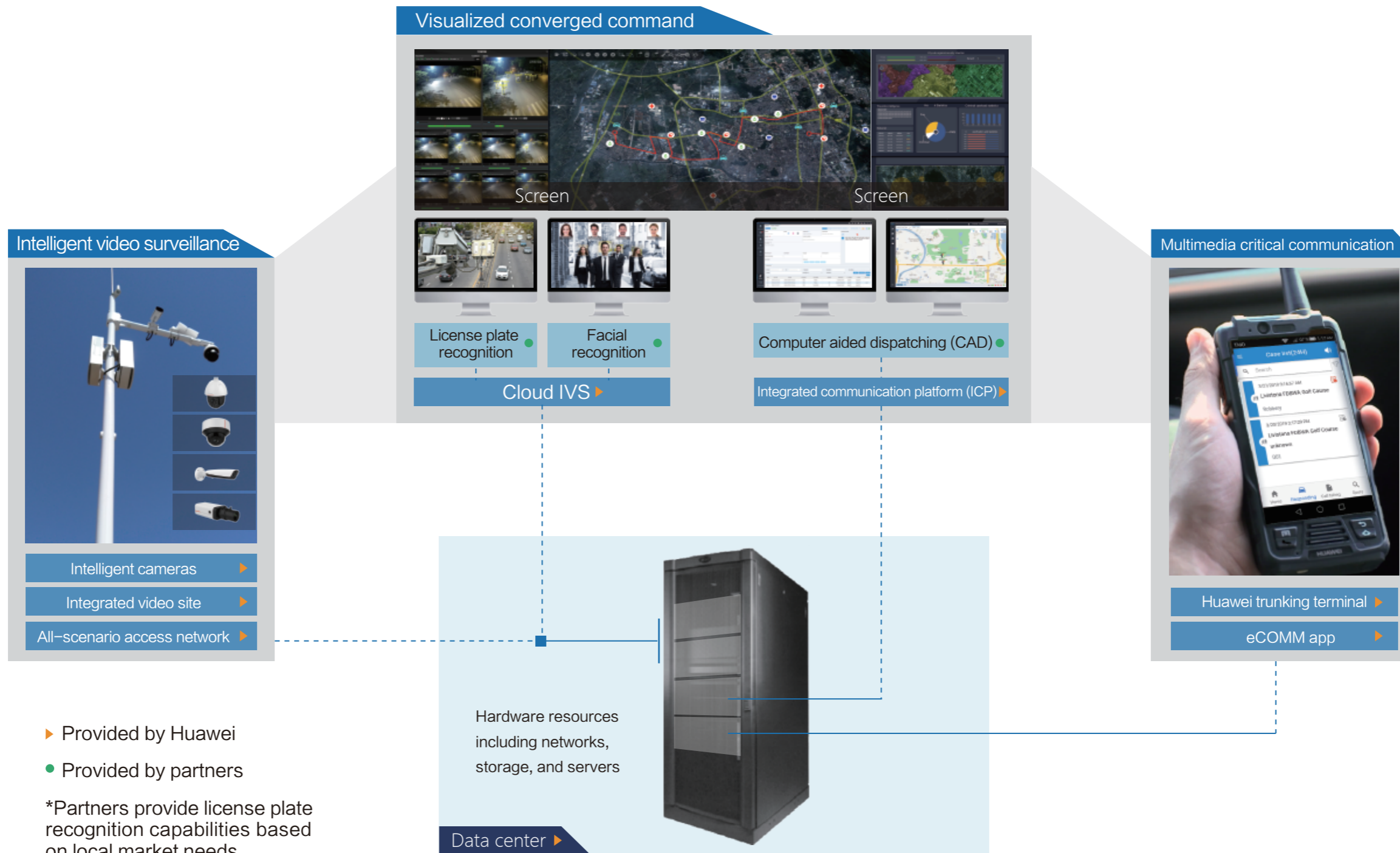
59% World's population lived in small and medium cities



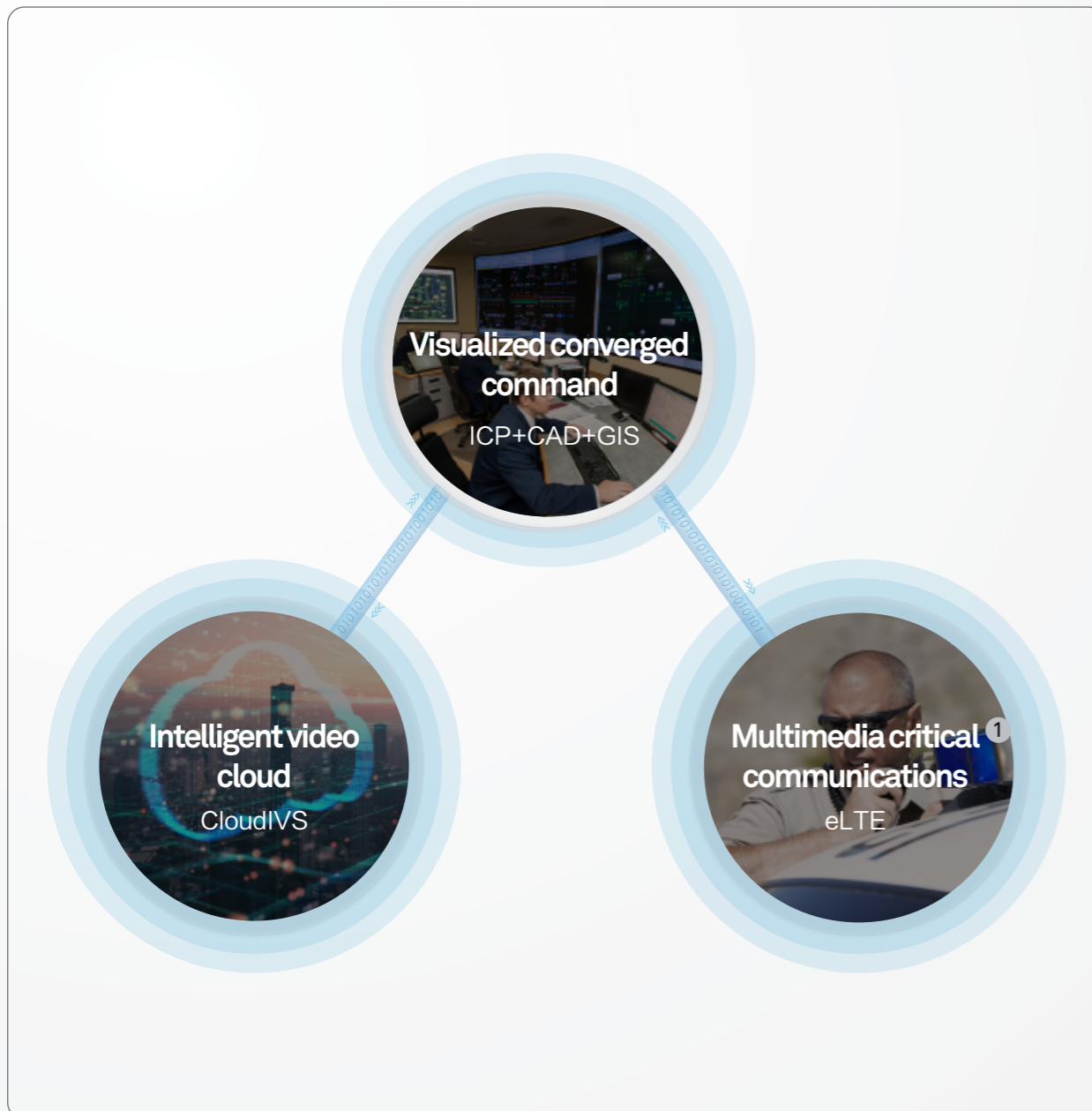
The Safe City Compact Solution is designed to serve small and medium cities around the world. Function modules support flexible assembling and plug-and-play. Small and medium cities can use this solution to quickly build three core ability systems, namely, visualized converged command, multimedia critical communications, and intelligent video cloud. The solution not only meets customers' service requirements, but also help them save investment costs and quickly launch services. The open cloud architecture enables smooth service evolution in the future.



Huawei Safe City Compact Solution Overview



Huawei Safe City Compact Solution Overview



Compact

- Highly compact hardware, easy to deploy
- Modular functions, easy to design
- Lightweight software, lower investment

Converged

- One-stop solution design
- Full convergence of command, communications, and monitoring
- Compatible with the communications and monitoring systems on live networks

Intelligent

- Software-defined camera
- Integrated video site; various networks for selection
- Real-time facial and license plate recognition ²

¥ Saving investment ↓

Small volume ↓

🕒 Easy to deploy ↑

🔧 Easy to maintain ↑

*Remarks: ¹ The latest version only supports interconnection with multimedia critical communication modules.

² Partners provide license plate recognition capabilities based on local market needs.

Safe City Compact Applies to Multiple Scenarios

Small and medium safe cities



Major emergencies



Park



Large activities



Stadium

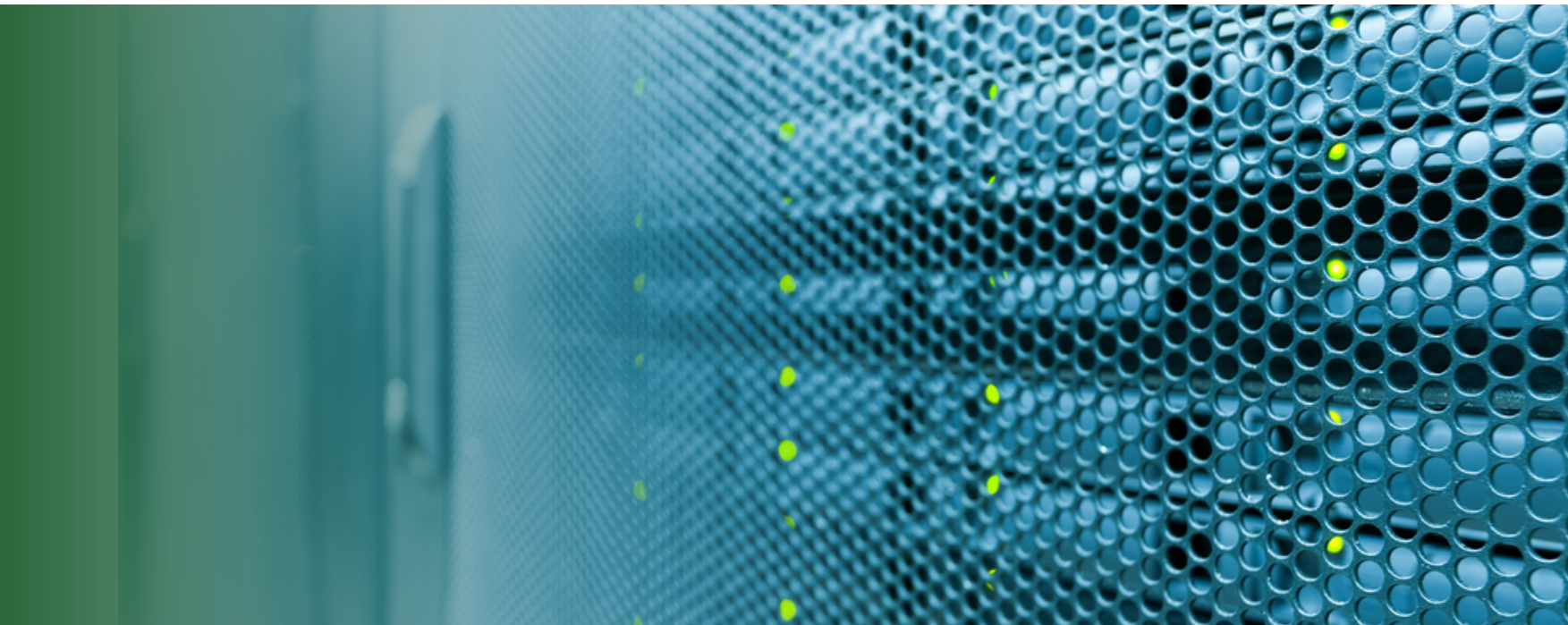


Prison



Key infrastructure





Key Message




2 Safe City Compact Key Messages

 **Compact** Highly compact design and easy deployment, accelerating Safe City service system development

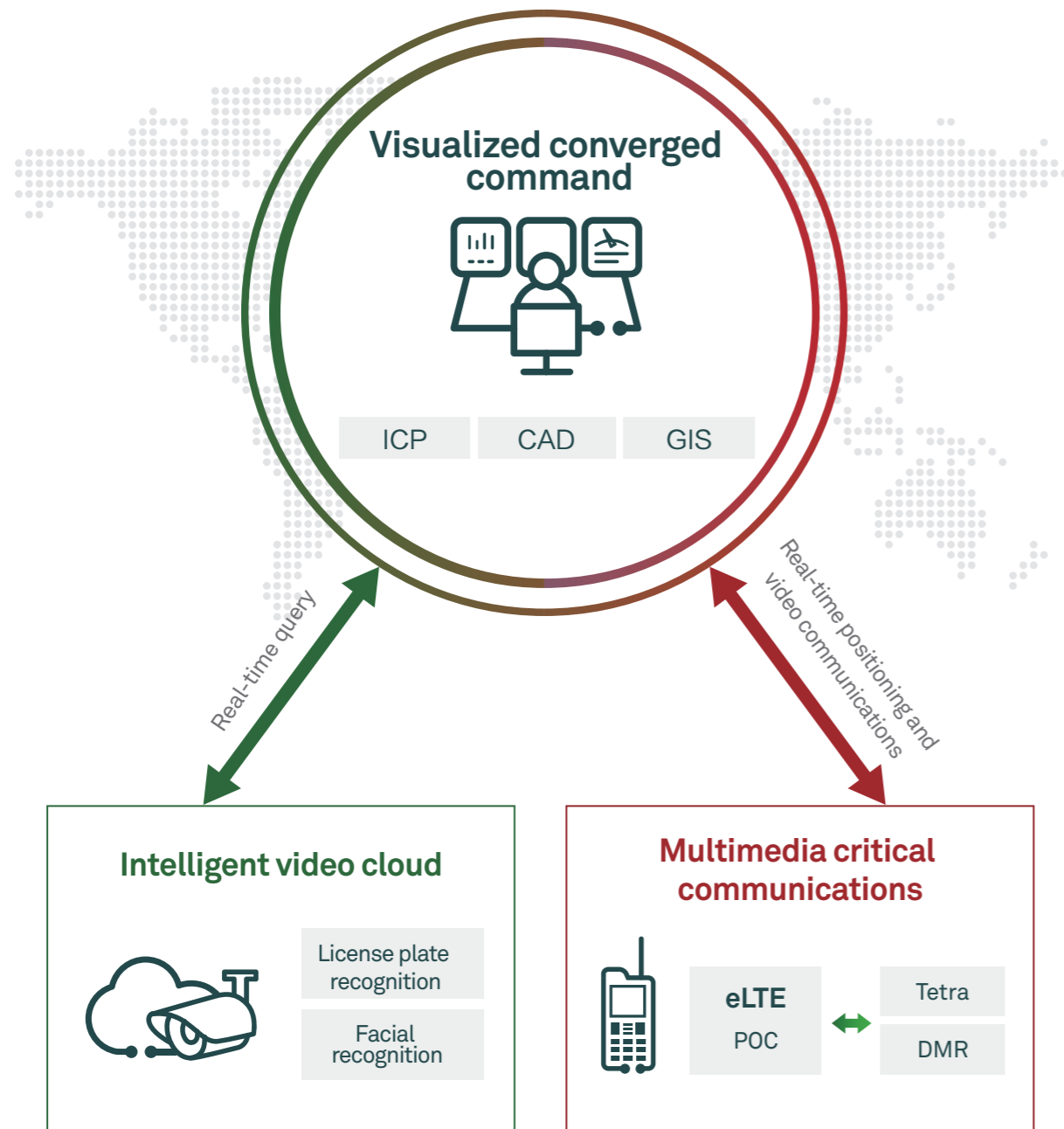


The solution converges more than 30 general servers into four compact servers, taking 0.5–1 standard cabinet.

Huawei provides three versions of solution design to flexibly cope with various customer requirements.

 All-in-one version	<p>Function module: visual converged command + multimedia critical communication + intelligent video cloud</p> <p>Hardware: converged blade server FusionServer E9000</p> <p>Advantages: highly reliable and integrated</p>
 Standard version	<p>Function module: visual converged command + multimedia critical communication + intelligent video cloud</p> <p>Hardware: rack server FusionServer 2288 (four or more)</p> <p>Advantages: modular and easy integration</p>
 Simplified version	<p>Function module: visual converged command</p> <p>Hardware: FusionServer X6800 server</p> <p>Advantages: simplified design and lower investment costs</p>

Converged



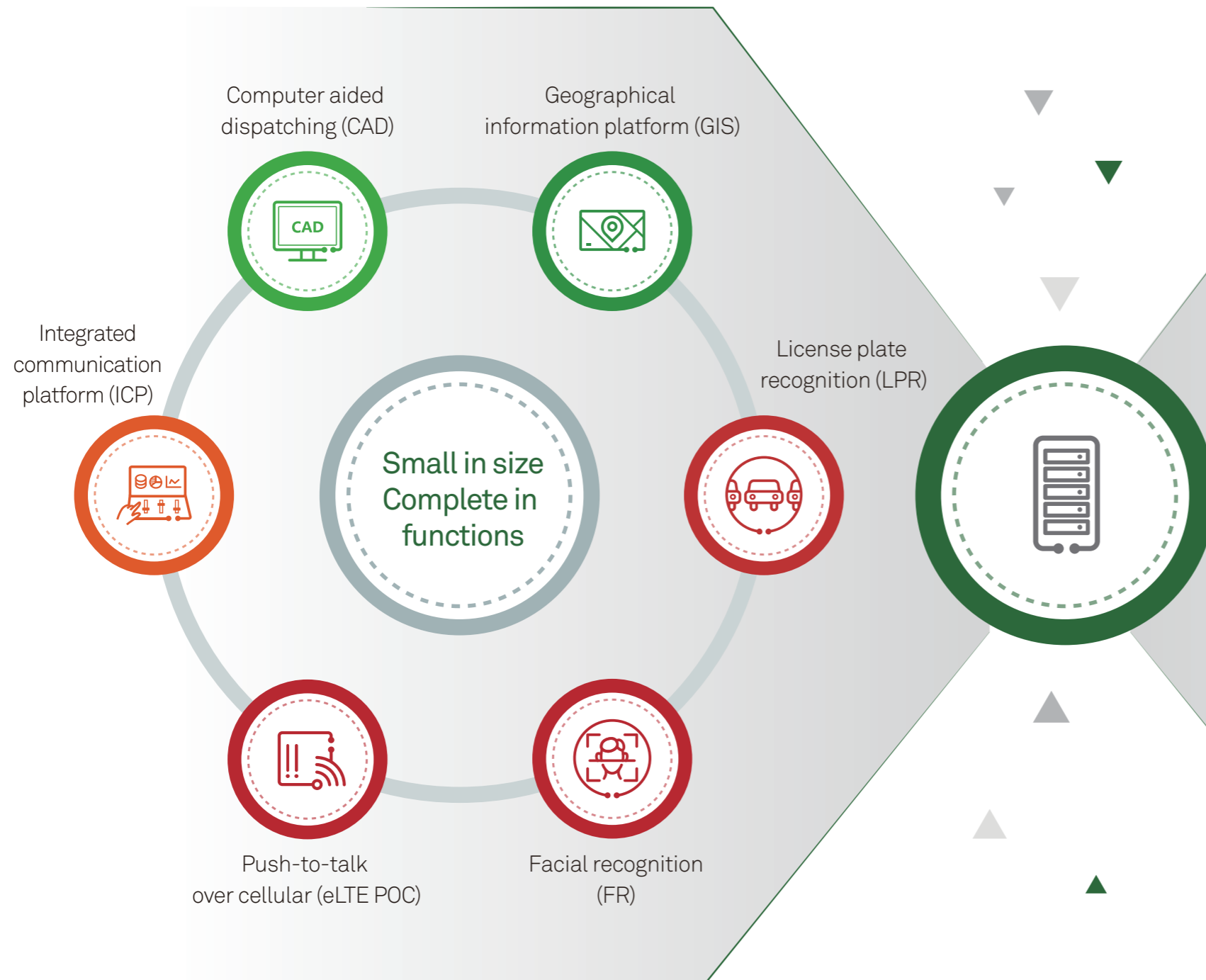
Links all involved systems to fully converge voice, data, and video

Intelligent

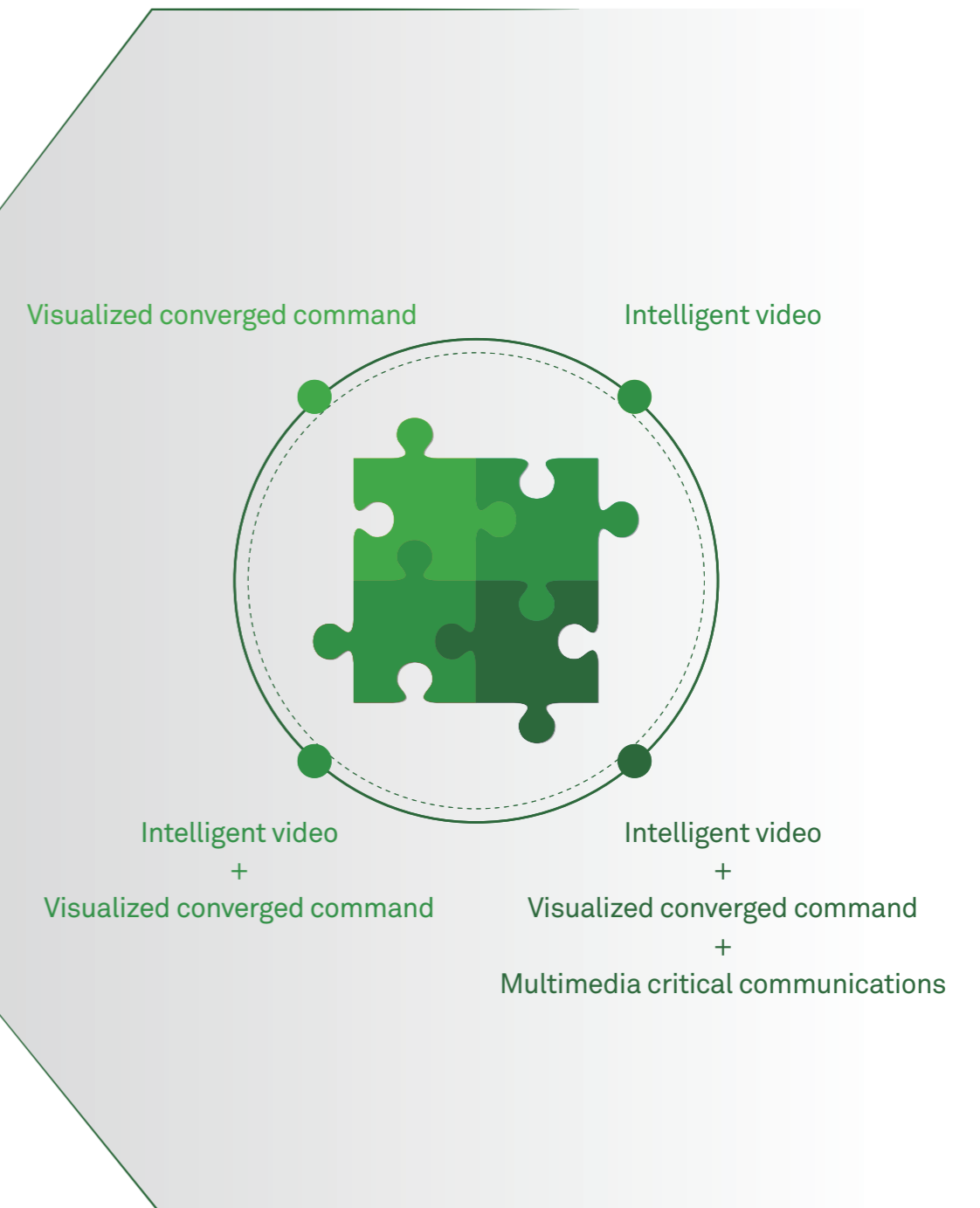


Intelligently analyze vehicles, personnel, and video to free labor forces from manual check

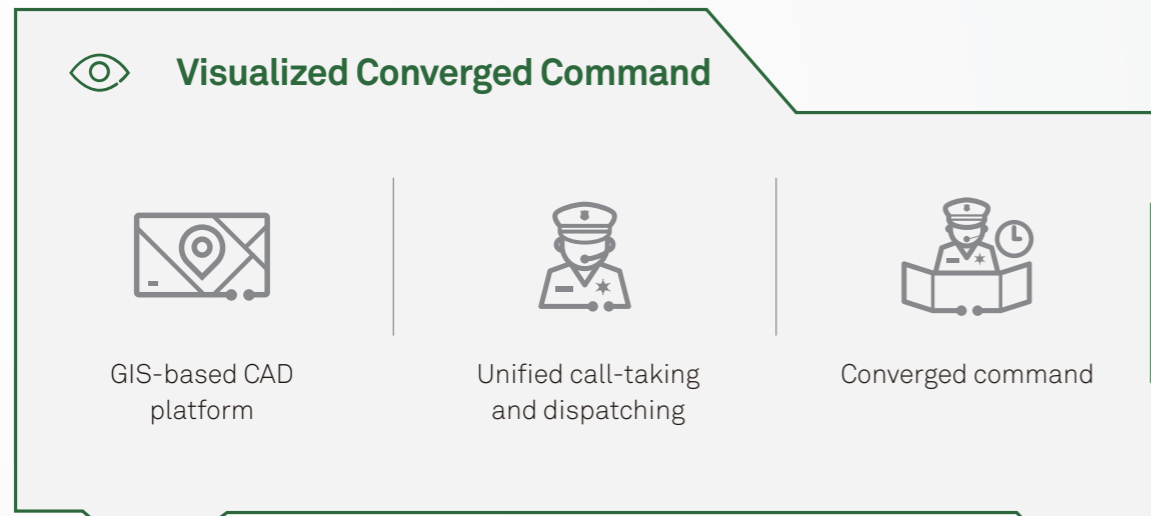
Function Modules Support Flexible Assembling and Easy Design Huawei Takes Complexity and Gives Simplicity



Function modules support flexible assembling, simplifying system design and accelerating service deployment.



Core Ability Modules



World's first visualized converged command system supports one-page command and efficient collaboration.

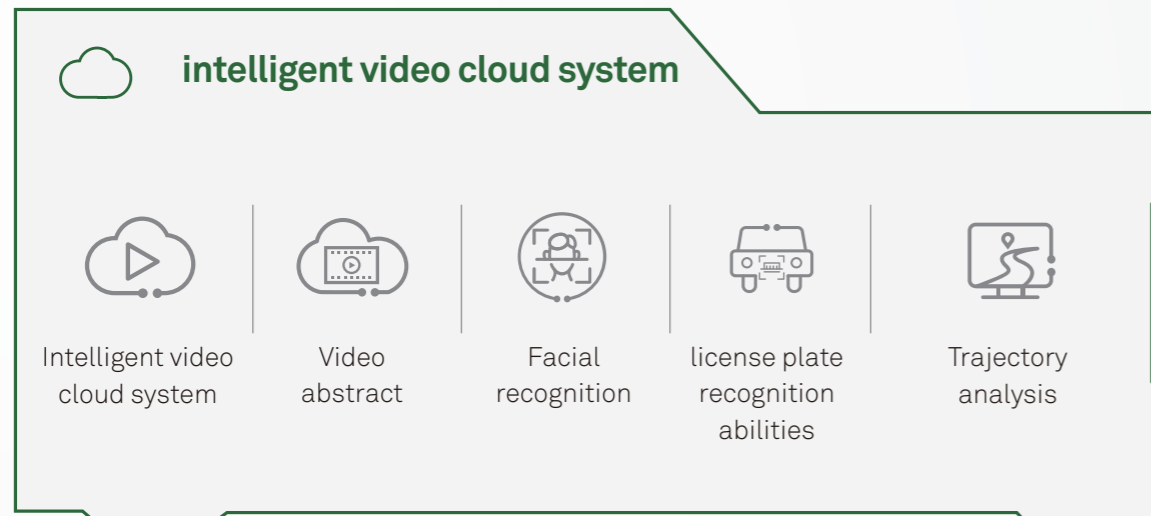


Customer Challenges

System silos, no information sharing, and inefficient collaboration and decision-making

<p>Inefficient incident reception</p> <p>No unified channel to receive incidents; cannot invoke onsite surveillance video</p>	<p>Slow response</p> <p>Dispatching cases by level Manually recording cases No location information</p>	<p>Inefficient collaboration</p> <p>Supports only voice communications. No other information is available. No unified communications across systems.</p>
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Core Ability Modules



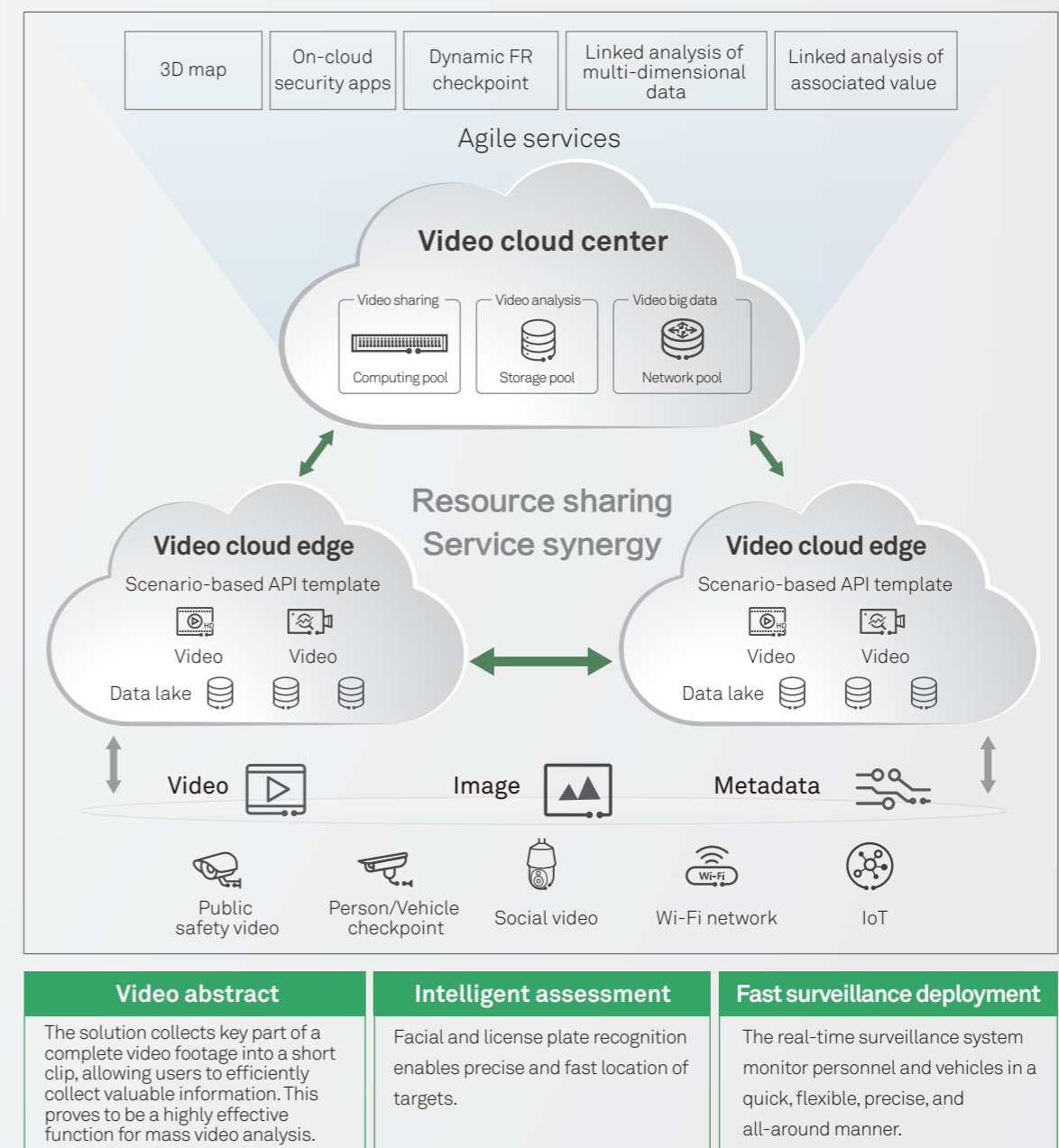
Customer Challenges

Existing video surveillance and analysis systems lack effective applications and cannot meet customers' service needs .

<p>Low image definition</p> <p>Traditional video surveillance systems cannot cope with diverse environments or effectively capture key information.</p>	<p>Low efficiency</p> <p>Manual query is not efficient enough for case investigation.</p>

Huawei Solution

Matrix intelligence improves the overall efficiency of video analysis and applications.



Core Ability Modules

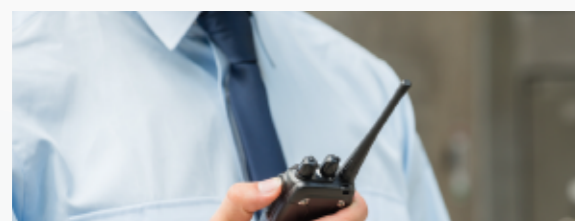
Multimedia Critical Communications

Push-to-Talk over cellular (POC)

visualized critical communications system

Customer Challenges

Traditional emergency communications systems have low integration rates, leading to inefficient dispatching and emergency handling.



Undiversified communications method:

The solution supports only voice communications, which is not efficient enough in emergency response.

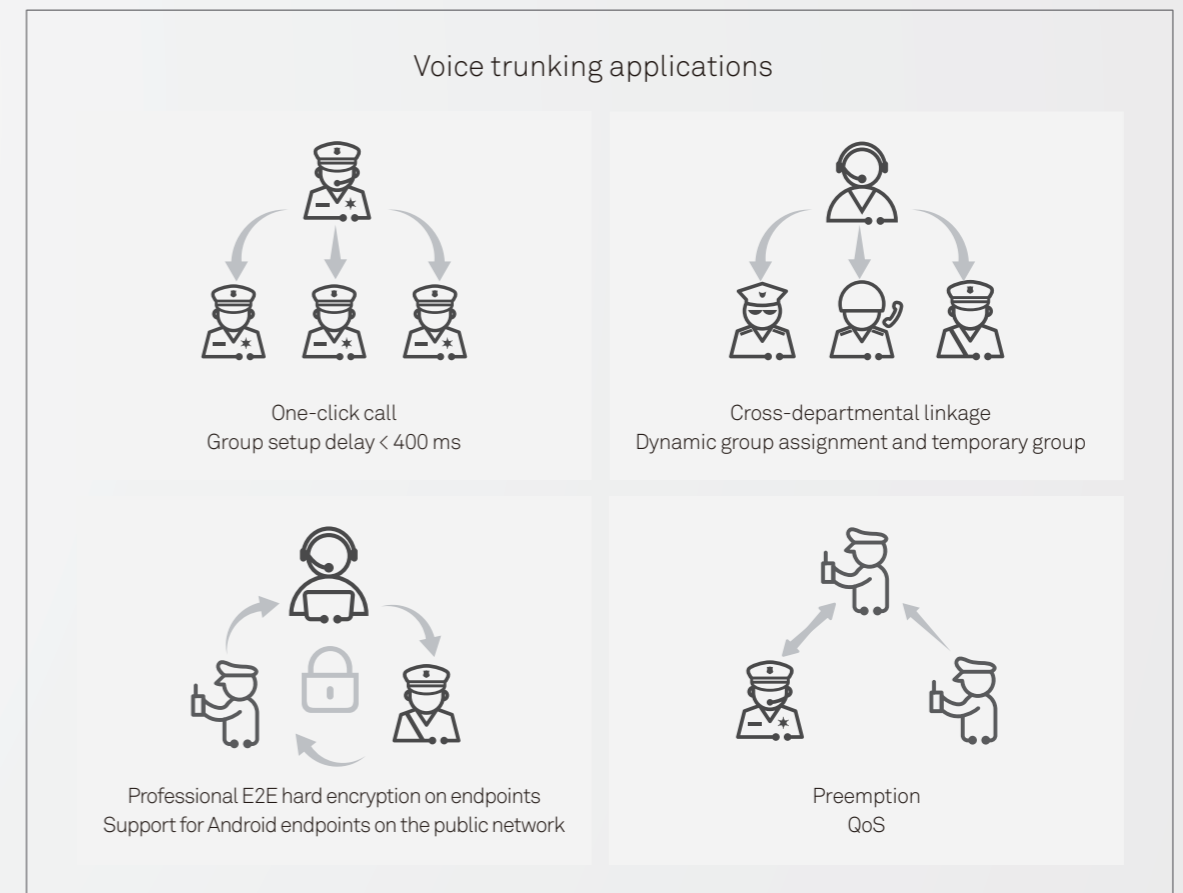


IT system silos and difficult cross-departmental collaboration

IT systems are separated from each other, lowering information sharing and collaboration efficiency.

Huawei Solution

Users can install the quadruple-play service application platform on mobile phones and connect the platform to both public and private networks. The platform converges voice, video, and data communications across departments.

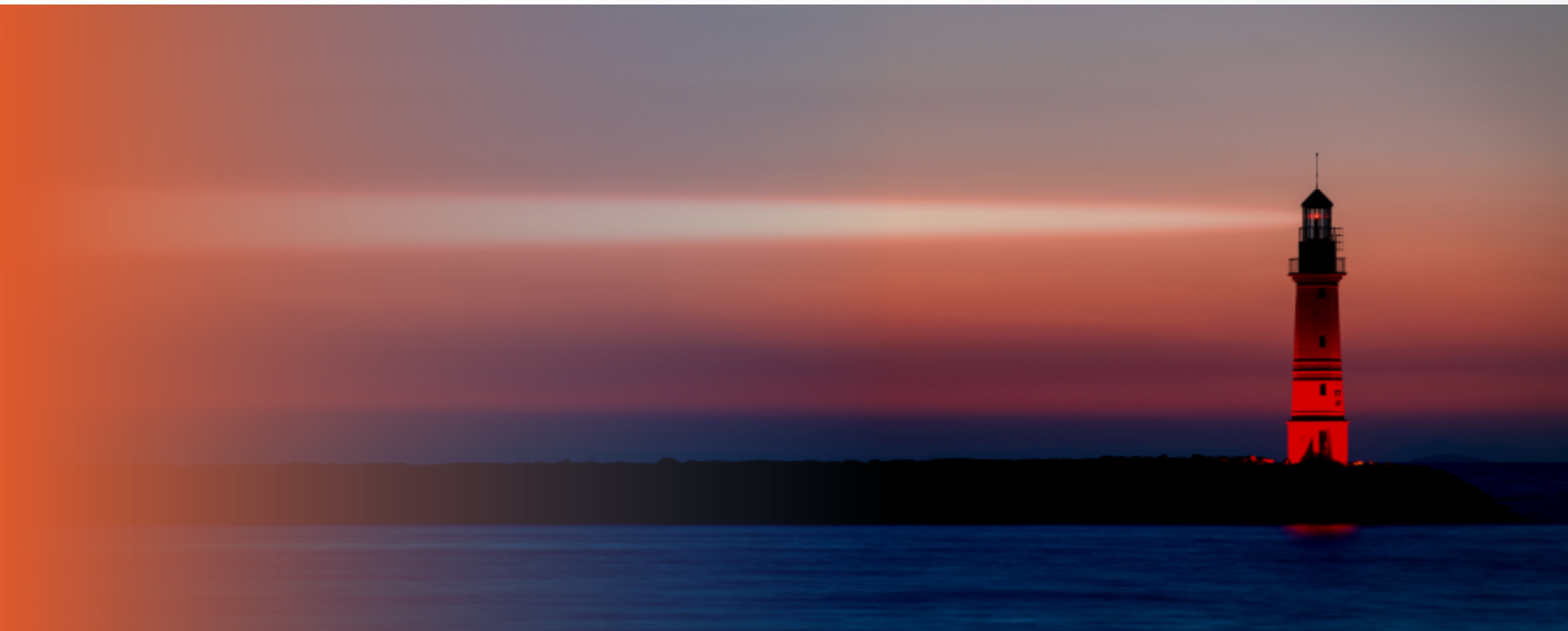


Converged communications of voice, video, and data

Improving emergency handling efficiency by video calls, upload, and distribution; VoIP critical communications; multimedia real-time communications; cross-departmental linkage; temporary group

High security and reliability for key dispatching tasks

Professional terminals; E2E hard encryption;preemption; QoS



Why Huawei?

3 Why Huawei?



Huawei is a major contributor in drafting public safety standards. We actively participate in the formulation of leading standards in more than 10 industries, such as converged command, intelligent video surveillance, video cloud, policing big data, and critical communications. This brings Huawei a competitive edge in the global market. In addition, Huawei leverages the testbed and plugfest (joint test group) to build the ecosystem, serving the public safety industry as a new engine.



Huawei has deployed 12 open solutions incubation platforms (OpenLabs) around the world. We follow the business-driven ICT infrastructure (BDII) innovation strategy to build open cooperation platforms. Through joint innovation, we provide innovative, differentiated, and unparalleled products, solutions, and services for governments, public utilities, and enterprises.

Global Practices of Huawei Public Safety

Huawei's Safe City Solution is now serving more than 700 cities across over 100 countries and regions in Europe, Latin America, Asia Pacific, and Africa.




 Santiago, Chile

Safe City Compact in Santiago, Chile

Huawei works with local partner Ingesmart to tailor a Safe City Compact Solution for Vitacura in Santiago. The solution has two core service systems: converged command and intelligent video surveillance.

- With the system in place, the **theft crime rate decreased by 32%** from January 2018 to August 2018.
- The system integrates the command, **surveillance, and communications services to enable visual converged command.**
- Huawei reuses customers' existing narrowband trunking and **video surveillance systems to protect customers' investments.**



 Chia, Colombia

Safe City Compact in Chia, Colombia

Huawei cooperates with local partner TALENTO to customize a Safe City Compact Solution for Chia, Colombia. The solution has two core service systems: eLTE critical communications and intelligent video surveillance.

- The system integrates the command, **surveillance, and communications services to enable visual converged command.**
- The narrowband trunking system on the customer's live network is interconnected with the eLTE broadband trunking system, **laying a foundation for the future development of broadband trunking services.**
- The solution **helps customers evolve to smart cities in the future.**



