



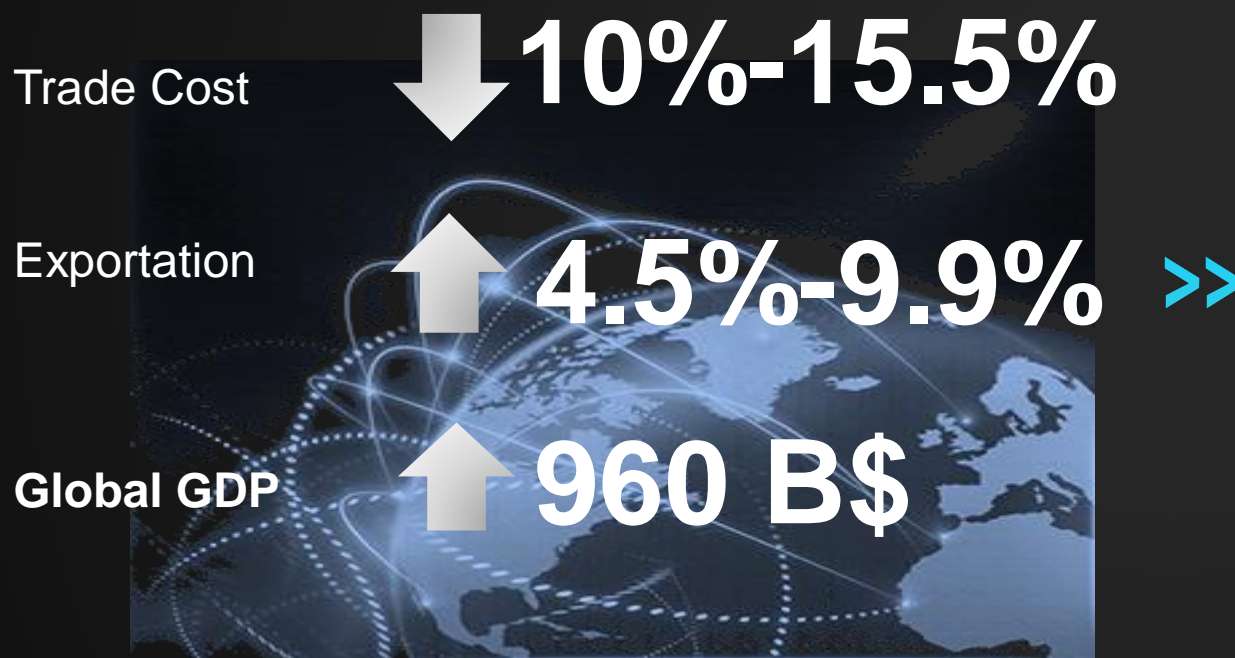
New Technologies Enabling Smart Borders

-- 5G, Big Data, AI, Video, Block Chain

LEADING NEW ICT

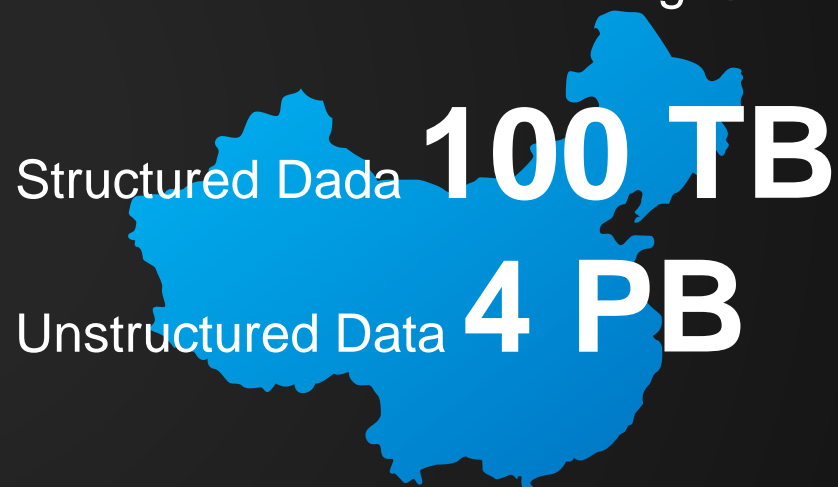
Smart Border is Megatrend

Facilitating Custom Process



Booming Custom Data

Chinese Custom Processing @ 2020



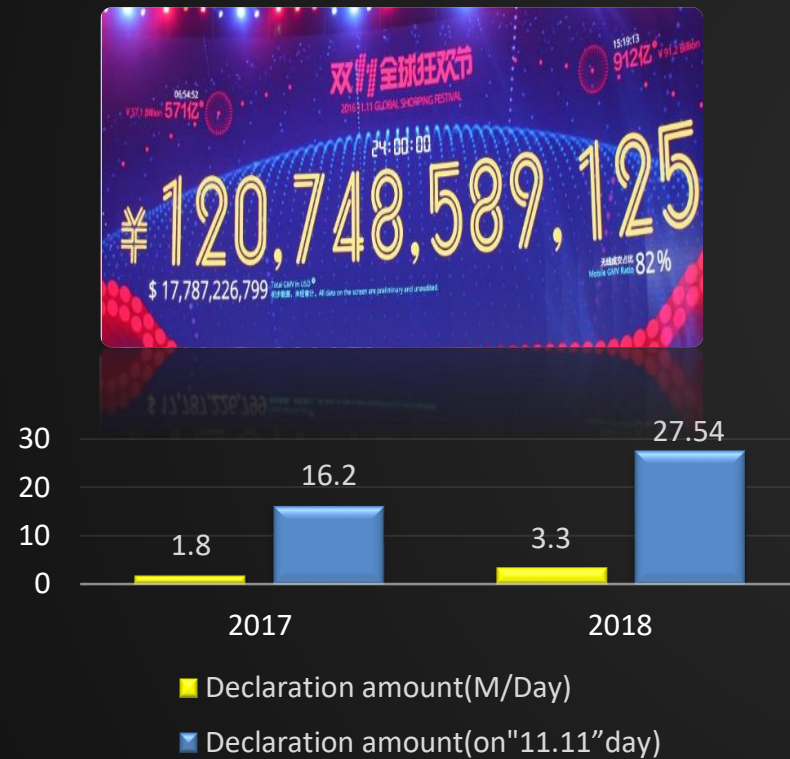
From clearance system, video surveillance, intelligence system, and related dept. such as tax, banks, ports, quarantine...

Source: ccghl

Source: Chinese Custom 13th 5 Years Plan

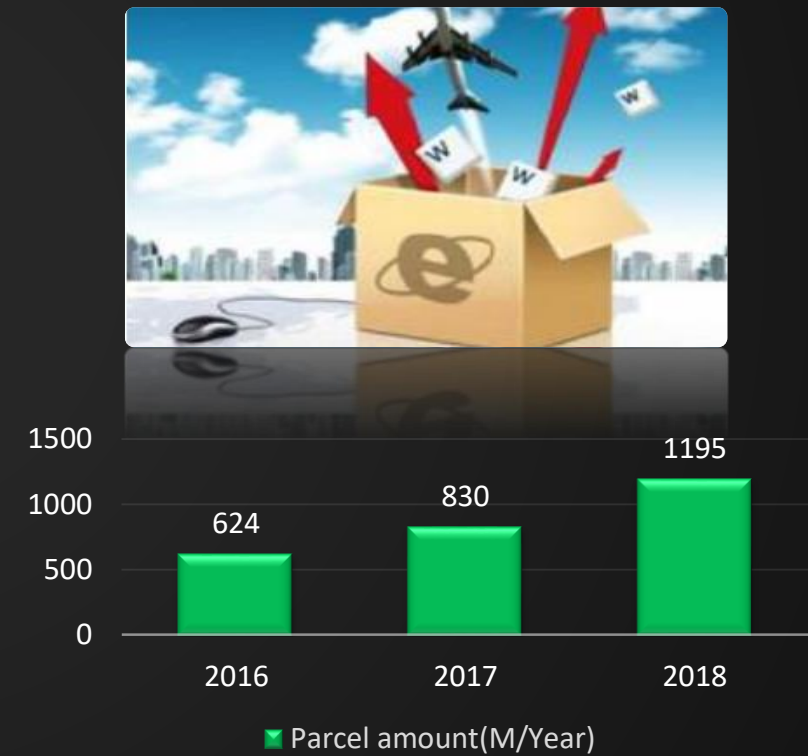
Burst of Cross-border E-commerce

The burst of cross-border declaration on “11.11” day
8 times customs declaration



Source: 中国贸易外经统计年鉴

The annual growth rate of cross-border parcels exceed **38%** in china



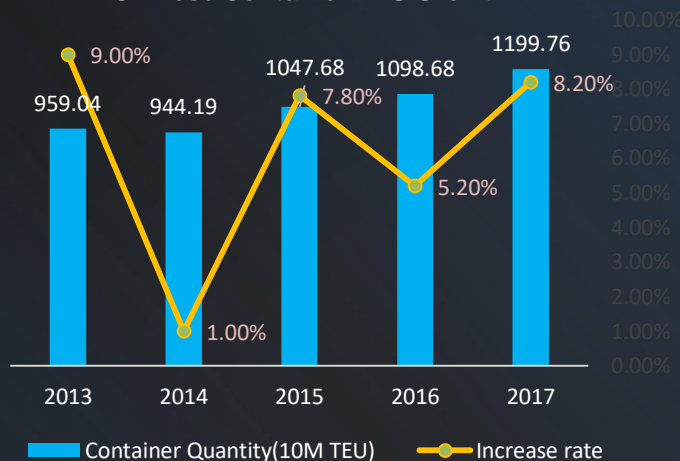
Source: 前瞻产业研究院

Constant Business Makes More Inspection Image Massive Growth

Cargo



Chinese Container TEU Growth



X-RAY Image



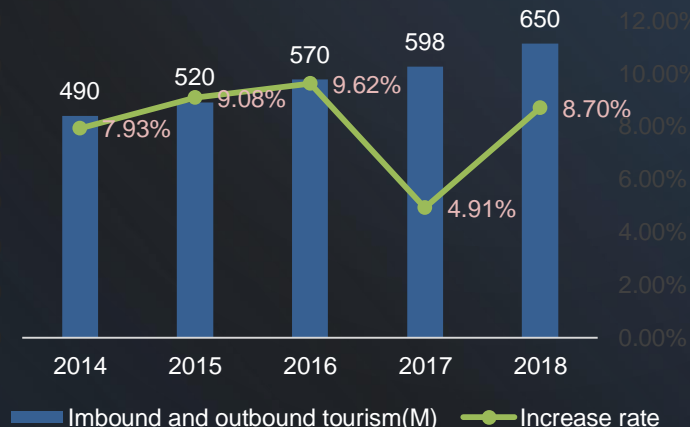
Annual growth



Passenger



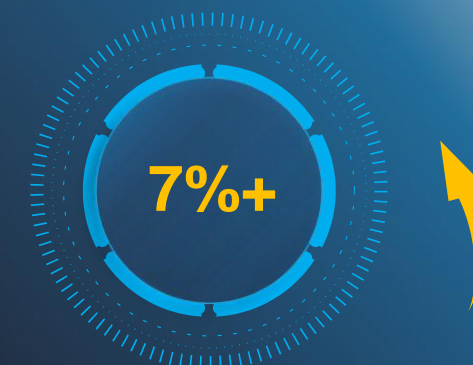
Chinese Inbound and Outbound Tourism Growth



Face Recognition



Annual growth



IoT Has Become a Reality



35M+ TEUs



4M Customs Cameras



350K Container Trucks



Sensors, more than 10X
of Containers & Trucks

Source: Triton annual report 2017 & Huawei Market insight

Digital Transformation Fueled by Two Drivers

Service-Driven

Trade Cost  **10%-15%**
Exportation  **5%-10%**
Cross-border Cargos **10X, 50X...**
...

Technology-Driven

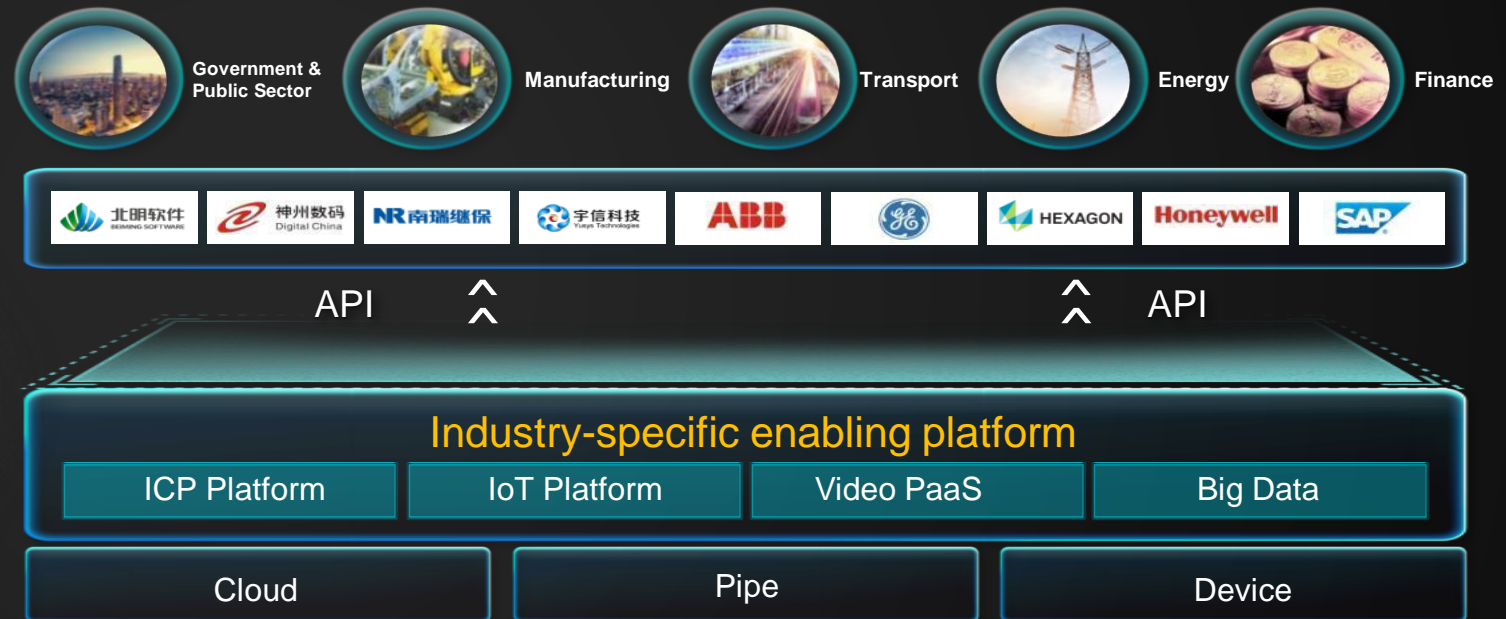
Video
Cloud
AI
Big Data
Block chain
5G
...

Synergized Digital Platform Driving the Convergence

Traditional model



Digital Platform Model



Full-stack ICT infrastructure: Open, Secure, Reliable

Fully Connected and AI Enabled Customs



5G Brings Seamless Broadband with Massive Coverage



2019: 5G is rolling out worldwide

Speed

20X (20Gbps)

Latency

1/20 (1ms)

Connection

10X (1M / km²)

3G and 4G have deeply changed our life, what's next when 5G comes...

5G Accelerates Innovations

LEADING NEW ICT



Internet of Things



Automated Port



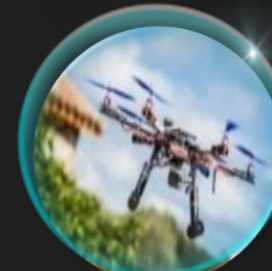
AI Assistant



Industry 4.0



Connected Vehicles



Connected
UAVs

5G

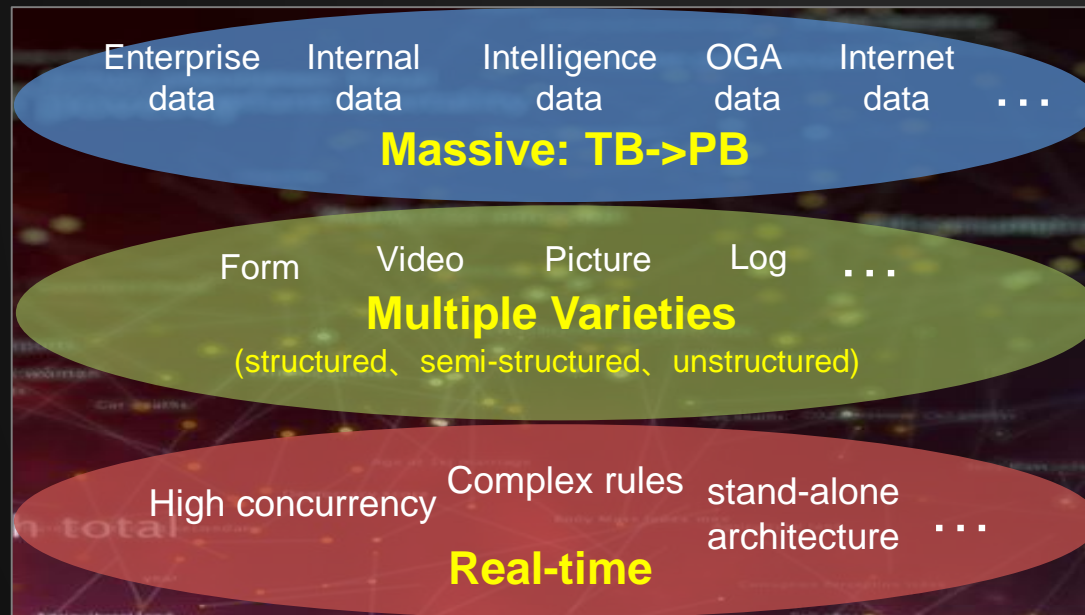


5G Applications Being Deployed In China Tianjin Port and Qingdao Port



Closed-Architecture Hinders Massive Data Processing

Data Processing Challenge



Traditional Closed-architecture system's pain points:

Traditional database scaling

Slow for multiple varieties of data types computing

Poor real-time performance

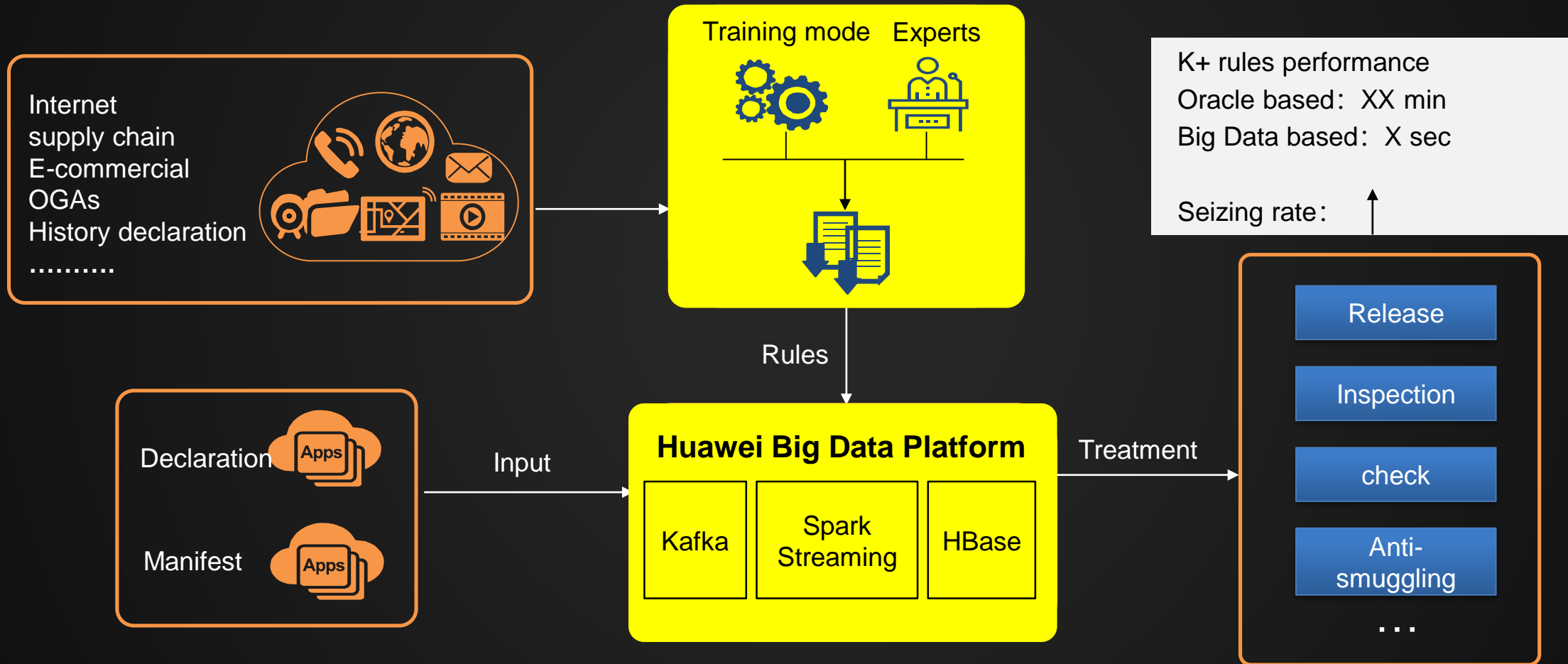
Converged, Open, and Intelligent Big Data Platform is



Key features:

1. Converged OLTP, OLAP, and AI capabilities
2. High concurrency, massive, real-time data processing
3. Online upgrade, HA for all components, unified management
4. Hybrid deployment and unified scheduling of resources ARM, x86, and GPU servers

Case: Real Time Risk Management



Smart & Real-time Video Supervision

Remote Instruction
Voice/Video trunkings



On-site Enforcement
LTE/WIFI Body Camera



Inspection & Record
PAD or Mobile



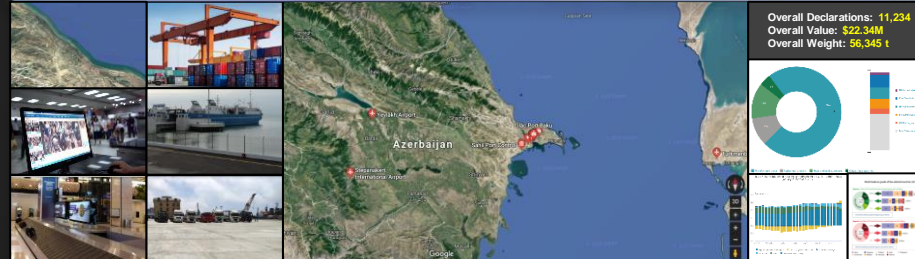
Integrated Communication Platform



GIS MAP



Command & Supervision Center



Risk
Management

Convenience

- ❑ Integrated, visualized, mobile system supports real time monitoring
- ❑ Save **at least 60% human resource** with centralized monitoring

Retrospective

- ❑ All process is **automatically recorded** with video or image
- ❑ **Transparent and justice**

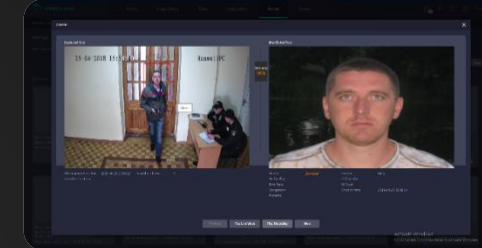
Intelligent Video Analysis Scenarios



Vehicle plate number recognition (Entry/release gate)



Container ID recognition
(Entry/release gate)



Blacklist-based Face Alert (Passenger check)

Automation

Intelligence

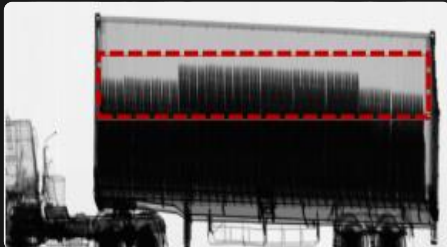


Image Audit with Liquid, gun, cigarette (Cargo inspection)

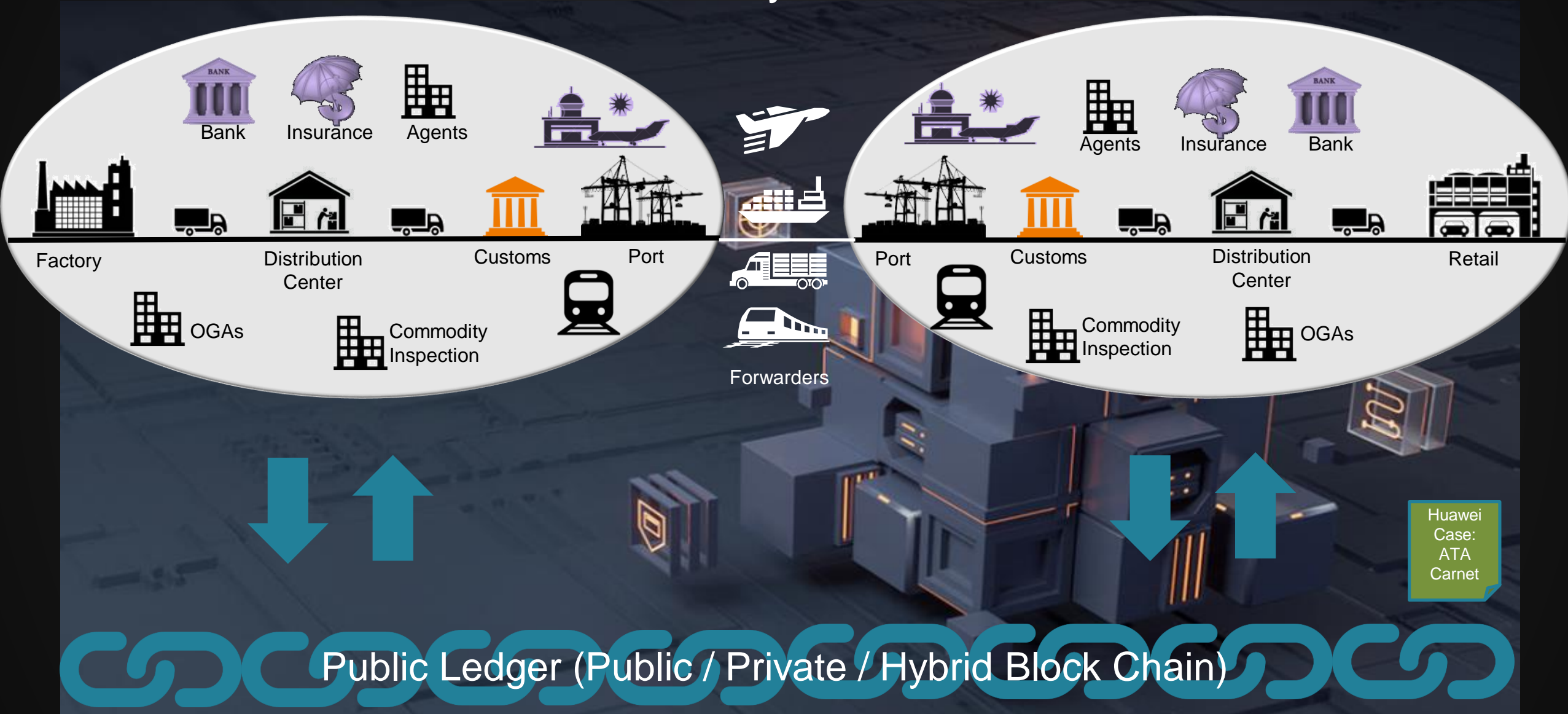


Face recognition gate
(Office)



Intrusion Alarm (Warehouse/Border)

Block Chain Facilitates Multi-Party Process



Huawei
Case:
ATA
Carnet

Smart Border \neq Pursuit of new technologies & concepts
0% or 100% inspection
Govt. departments co-location
Operational Statistics

Smart Border = Efficiency & secure oriented long-term evolution
Non-emotional-intervened free trade
Borderless full services
Innovative new opportunities

The background is black with several thin, curved lines in orange, yellow, red, and light blue that sweep across the right side of the image. The text "THANK YOU" is centered on the right side in a large, white, sans-serif font.

THANK YOU

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