中广核 CGN

SMART SUPERVISION BRINGS A SAFER WORLD

SMART SECURITY INSPECTION

ABOUT CGN BEGOOD

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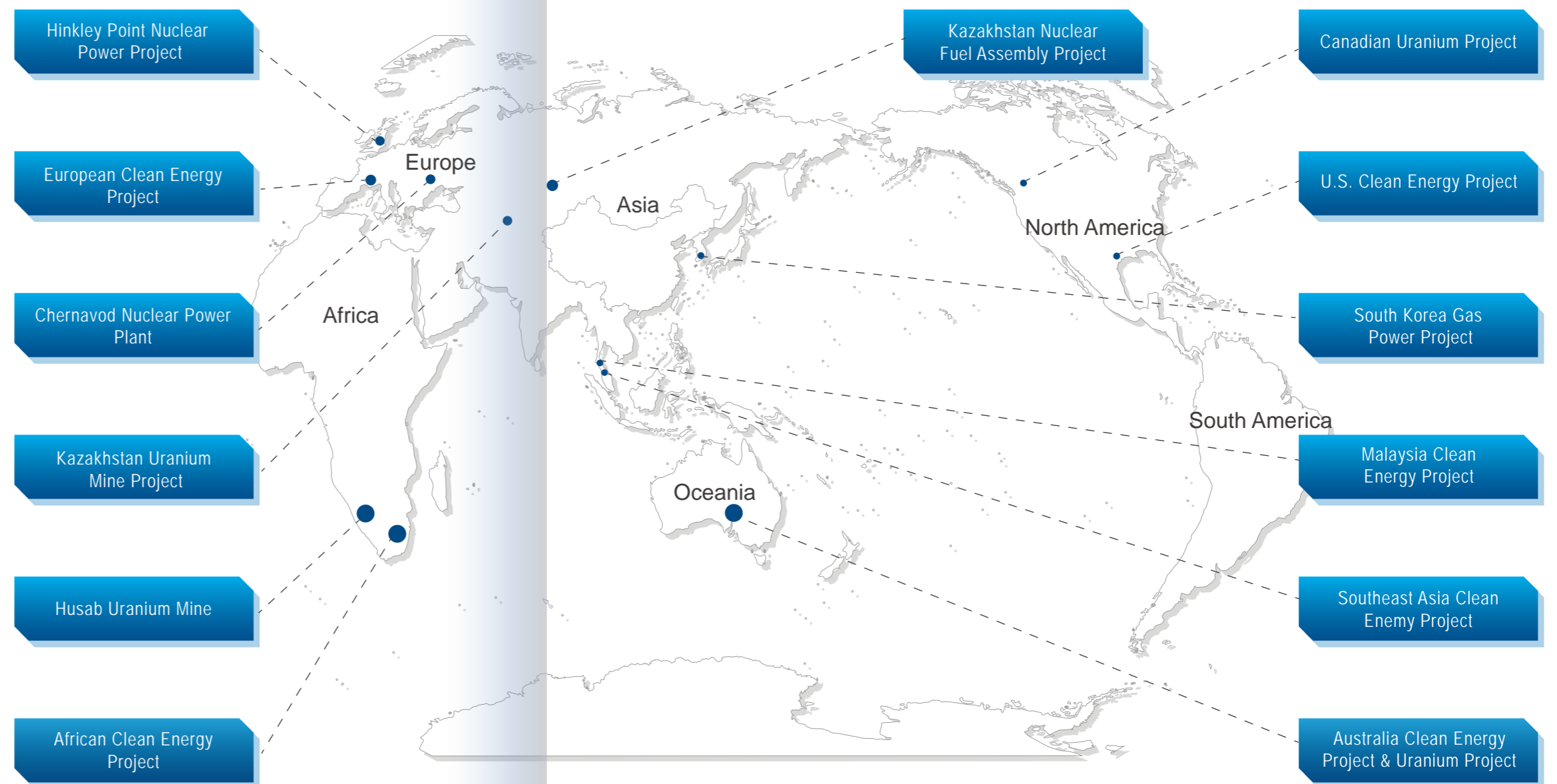CGN BEGOOD TECHNOLOGY CO.，LTD.

Contents

COMPANY PROFILE

CGN

CGN Group is the largest nuclear power company in China and the third largest in the world. After more than 40 years of development, CGN Group has established a 6+1 industrial system, with business covering areas such as nuclear energy, new energy, non-power nuclear technology, digitalization, and with total assets exceeding one trillion yuan(CNY) and ownership of 5 listed platforms.

International Business Scope of CGN

Hinkley Point Nuclear Power Project

European Clean Energy Project

Chernavod Nuclear Power Plant

Kazakhstan Uranium Mine Project

Husab Uranium Mine

African Clean Energy Project

Kazakhstan Nuclear Fuel Assembly Project

Canadian Uranium Project

U.S. Clean Energy Project

South Korea Gas Power Project

Malaysia Clean Energy Project

Southeast Asia Clean Enemy Project

Australia Clean Energy Project & Uranium Project

Europe

Asia

Africa

North America

South America

Oceania

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自然资源部 监制

COMPANY PROFILE

CGN Begood Technology Co., Ltd.

Established in 2001 and headquartered in Nanchang Hi-tech Zone in China，CGN Begood specialises in nuclear instrumentation and intelligent regulatory equipment development, software development and system integration, providing intelligent regulatory solutions for nuclear and radiation regulation, safety inspection and port supervision. CGN Begood's R&D personnel comprise 50% of the total staff, constituting a scientific research team led by PhDs and masters.Recognized as a key high-tech enterprise and a national speciality leading enterprise，CGN Begood is a industrial development platform of CGN's measurement and control equipment.

▶ Technical Advantage

Talent Team：R&D team with doctors & masters as backbone
National Platform: National Engineering Research Center & Workstation for Postdoctoral Programme
Technical Achievements：More than 300 technical achievements, National Science & Technology Awards

▶ Integration Advantage

With the prestigious Top-tier IT Qualifications, CGN Begood capitalize on the comprehensive strengths of specialized equipment, software, and system integration to provide the overall solution for intelligent supervision.

▶ Product Advantage

Successfully commercialized scientific research outcomes, resulting in three major series comprising over 100 products.

▶ Enterprise Resource

CGN group has assets exceeding one trillion yuan(CNY) more than 700 member companies,and 5 listed platforms

▶ Credit Guarantee

Key high-tech enterprise and Key software enterprise,Class-A Taxpayer

Awards

Management System

Key High-Tech & Specialized and Sophisticated Enterprise

Science & Technology Awards

Intellectual Properties

Technical Team

CGN Begood gives priority to its human resources management strategy. We currently have almost 500 employees, 60% of whom have a bachelor's degree or higher. We have more than 200 technical staff, accounting for nearly 50% of the total. With doctors and masters as the backbone, CGN Begood is forging a high level R&D team.

PRODUCTS

Security Inspection System

Cargo&Vehicle Inspection

Small Vehicle Inspection System
Cargo/Vehicle Inspection System
Empty Container Inspection System
Backscatter Imaging System
Under Vehicle Scanning System

Baggage & Parcel Inspection

X-ray Baggage and Parcel Inspection System
CT Baggage and Parcel Inspection System

Human Body Inspection

Metal Detector(door)
Millimeter Wave Body Inspection System

Nuclear/ Biochemical and Contraband Detection

Radiation Detection
Biological and Chemical Factor Monitor
Narcotics and Explosives Detection
Threat and Contraband Inspection

System Platform

Centralized Image Review System
Intelligent Image Review System
Cloud Platform

Passenger Vehicle Inspection System

| Top-down Scanning
| Precise Scanning Mode/Fast Scanning Mode
| Advanced Imaging Algorithm

Small Vehicle Inspection System

| Top-down Scanning
| Precise Scanning Mode/Fast Scanning Mode
| Good Penetration Capability

Fixed Cargo/Vehicle Inspection System

| 6/3 MeV Linac
| Fast Scanning Mode
| Good Material Discrimination Capability

Relocatable Cargo/Vehicle Inspection System

| 7/4 MeV Linac
| Precise Scanning Mode/Fast Scanning Mode
| Advanced Imaging Algorithm

Mobile Cargo/Vehicle Inspection System

| 6/3 MeV Linac
| Precise Scanning Mode/Fast Scanning Mode
| Free to Tansfer to Different Spot

Railway Cargo/Vehicle Inspection System

| 9/6 MeV Linac
| Fast scanning Mode
| Automatically Avoid the Passenger Carriage

Backscatter Imaging System

| Three-view Backscatter Scanning
| Fast Scanning Mode
| High Sensitivity

Empty Container Inspection System

| Side-illuminated Scanning
| Fast Scanning Mode
| Small Footprint

PRODUCTS

CGN BEGOOD TECHNOLOGY CO., LTD.

X-ray Baggage and Parcel Inspection System

BG-X6550   BG-X100100DB   BG-X150180

CT Baggage and Parcel Inspection System

BGCT-0620   BGCT-0824   BGCT-1050S

Millimeter Wave Human Security Inspection System

Radiation Detection Devices

Radiation Portal Monitors (Vehicle Channel Type)   Rradiation Portal Monitors (Baggage Channel Type)   Radiation Portal Monitors (Pedestrian Channel Type)   χ, γ Personal Dosimeter   Hand-held Radioisotope Identifier Devices

Drugs & Explosives Detection Devices

Handheld Drugs and Explosives Detector   Desktop Drugs and Explosives Detector
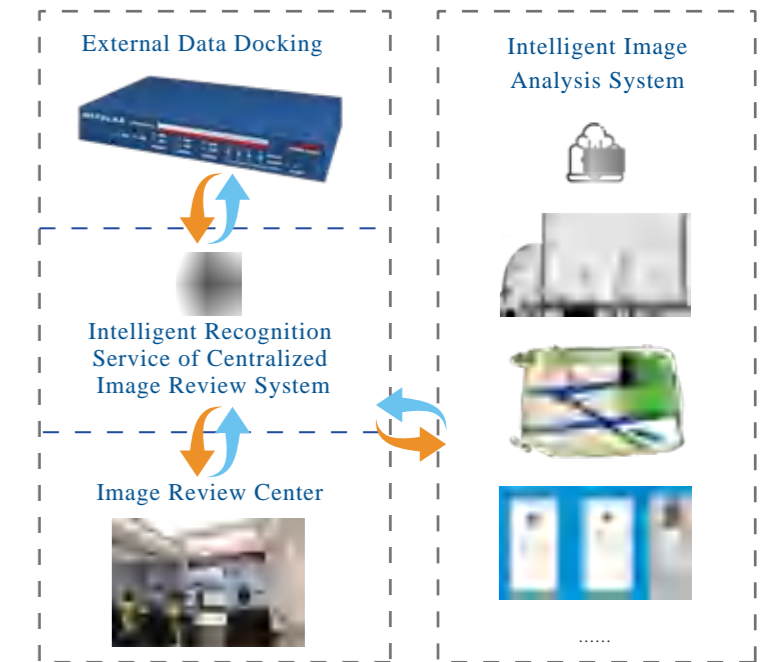
Handheld Raman Spectrometer   Handheld Backscatter Detector

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Centralized Image Review System

Through a centrally deployed image analysis station, images scanned by CT, X-ray, and millimeter wave equipment are centrally reviewed and analyzed, with unified management and standardized archiving. The system can automatically assign image review tasks, inspect the images, label suspicious items, and provide real-time feedback to on-site inspectors to guide subsequent handling. This process significantly improves the efficiency and standardization of image review.

External Data Docking   Intelligent Image Analysis System

Intelligent Recognition Service of Centralized Image Review System

Image Review Center

Intelligent Image Review System

Utilizing advanced image recognition technology, it conducts automated analysis of imaging inspection images, able to automatically identify and label common contraband items such as guns, knives, explosives, and drugs. This intelligent auxiliary function significantly enhances the efficiency and accuracy of inspection work, helping inspectors quickly identify and handle suspicious items.
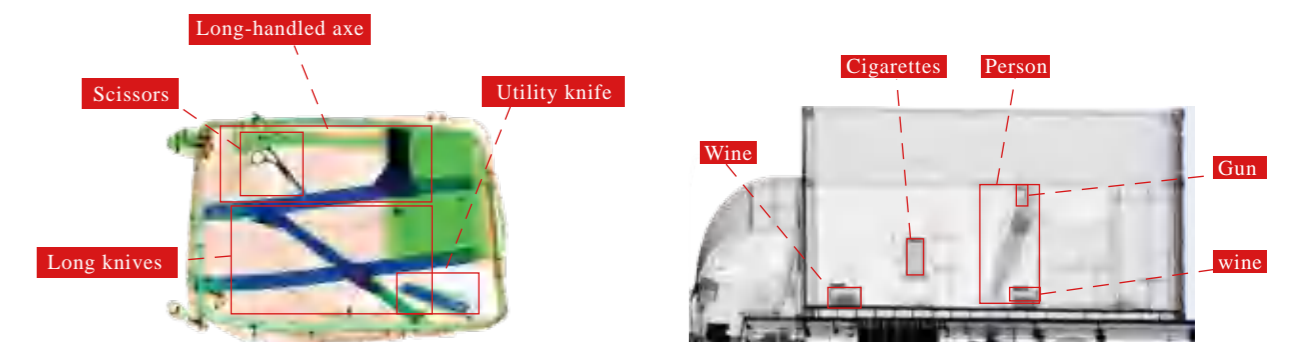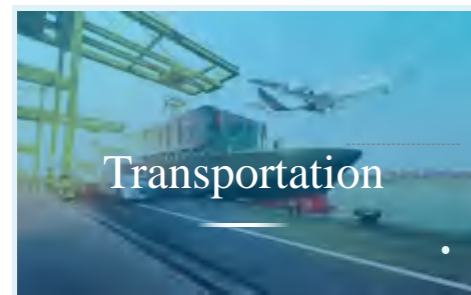

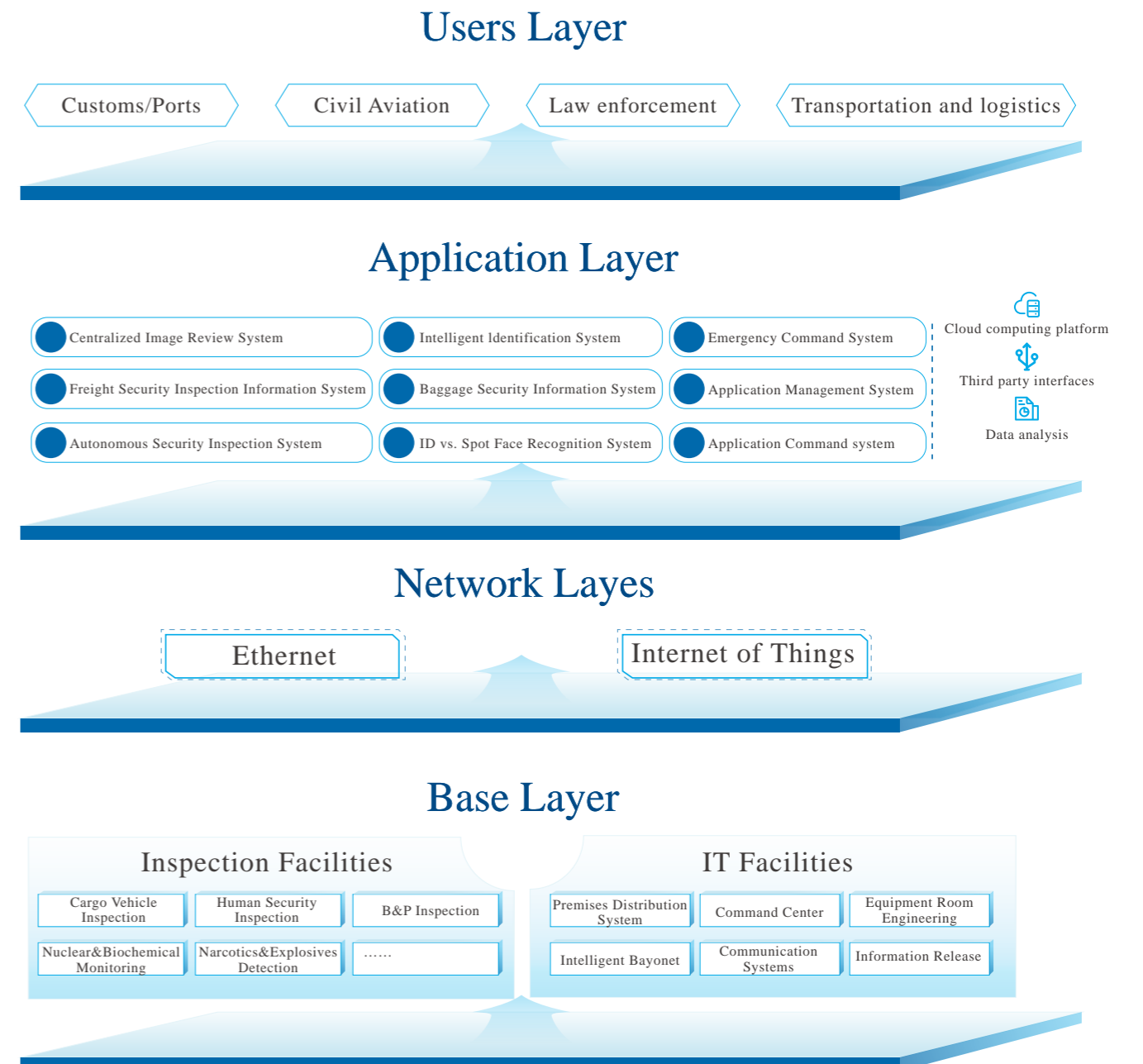Intelligent Image Review System for Baggage Inspection   Intelligent Image Review System for Cargo/Vehicle Inspection

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SOLUTIONS & APPLICATIONS

Applications

Port & Customs

Transportation

Urban Security

Civil Aviation

Law Enforcement

Conferences & Exhibitions

Topology of Our Solutions

Users Layer

Customs/Ports | Civil Aviation | Law enforcement | Transportation and logistics

Application Layer

Centralized Image Review System | Intelligent Identification System | Emergency Command System

Freight Security Inspection Information System | Baggage Security Information System | Application Management System

Autonomous Security Inspection System | ID vs. Spot Face Recognition System | Application Command system

Cloud computing platform

Third party interfaces

Data analysis

Network Layes

Ethernet | Internet of Things

Base Layer

Inspection Facilities

| Cargo Vehicle Inspection | Human Security Inspection | B&P Inspection |
| Nuclear&Biochemical Monitoring | Narcotics&Explosives Detection | …… |

IT Facilities

| Premises Distribution System | Command Center | Equipment Room Engineering |
| Intelligent Bayonet | Communication Systems | Information Release |

SOLUTIONS & APPLICATIONS

Our Solution Diagram

Deployment of Cargo Vehicle Inspection System

Image Reviewing Area
Centralized Image Review System
Intelligent Image Review System

Scanning Area
Cargo & Vehicle Inspection

Waiting Area
License Plate Recognition System (LPRS)
Barrier Gate

Pre-inspection Area
Vehicle Channel Radiation Portal Monitors
License Plate Recognition System (LPRS)
Container Number Recognition System
Cargo Weighing System
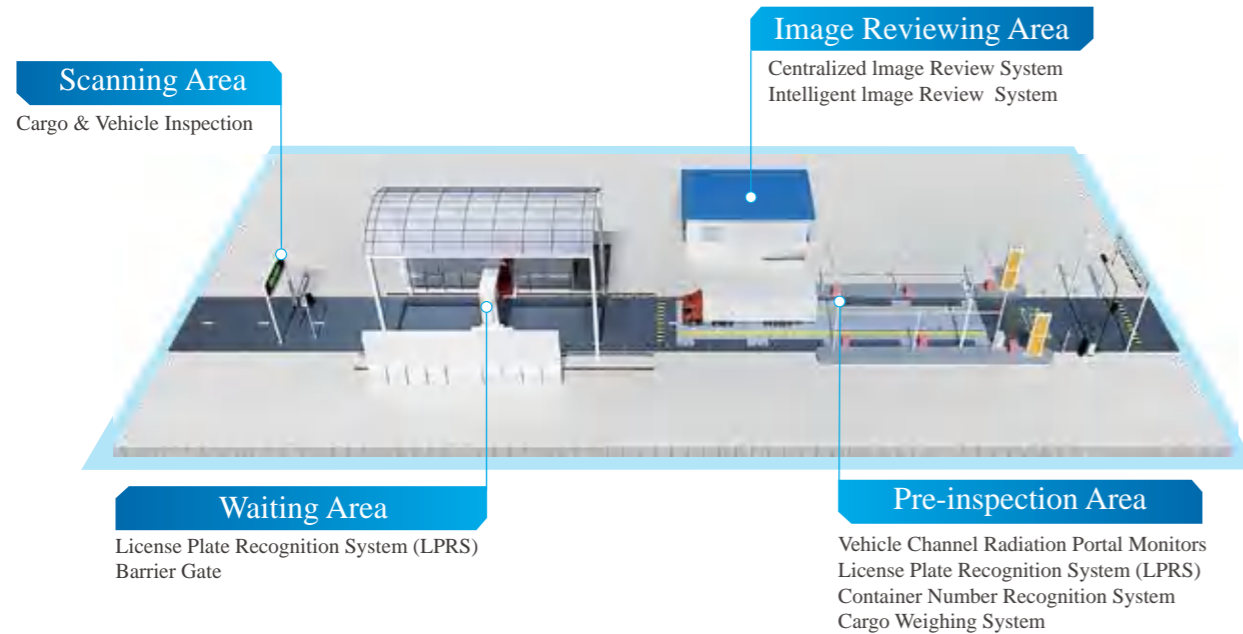
Deployment of Personnel, Baggage and Parcel Inspection System

Human Security Inspection Area
Millimeter-Wave Body Scanner System

Image Reviewing Area
Centralized Image Review System
Intelligent Image Review System

Verification and Disposal Area
Hand-held Radioisotope Identification Device
Liquid Safety Detector

Baggage and Parcel Inspection Area
X-ray Baggage Parcel Inspection System
CT Baggage Package Inspection System

TYPICAL CASES

CGN Begood has won tenders for more than ten sets of large cargo vehicle inspection systems in Dalian and Qingdao Customs, Xinjiang Logistics Park, Xiangtang and Guiyang Railway Port, etc. The system has also been exported to Nepal, Malaysia, Kazakhstan and Namibia.

Border Security Inspection Project
Nepal

Fast Scan Inspection System Project
Malaysia

Cross-border e-commerce Goods
Inspection Project Thailand

Border Security Inspection Project
Kazakhstan

Cargo Vehicle Inspection Project
Beijing Olympic Winter Games

Cargo Vehicle Inspection Project
Chengdu FISU World University Games

Small Vehicle Inspection Project
Ejina/Suifenhe Customs, China

Cargo Vehicle Inspection Project
Dalian/Qingdao Customs, China

Hainan Free Trade Port Cargo Vehicle
Inspection Project
Xinhai and Xiuying Port, China