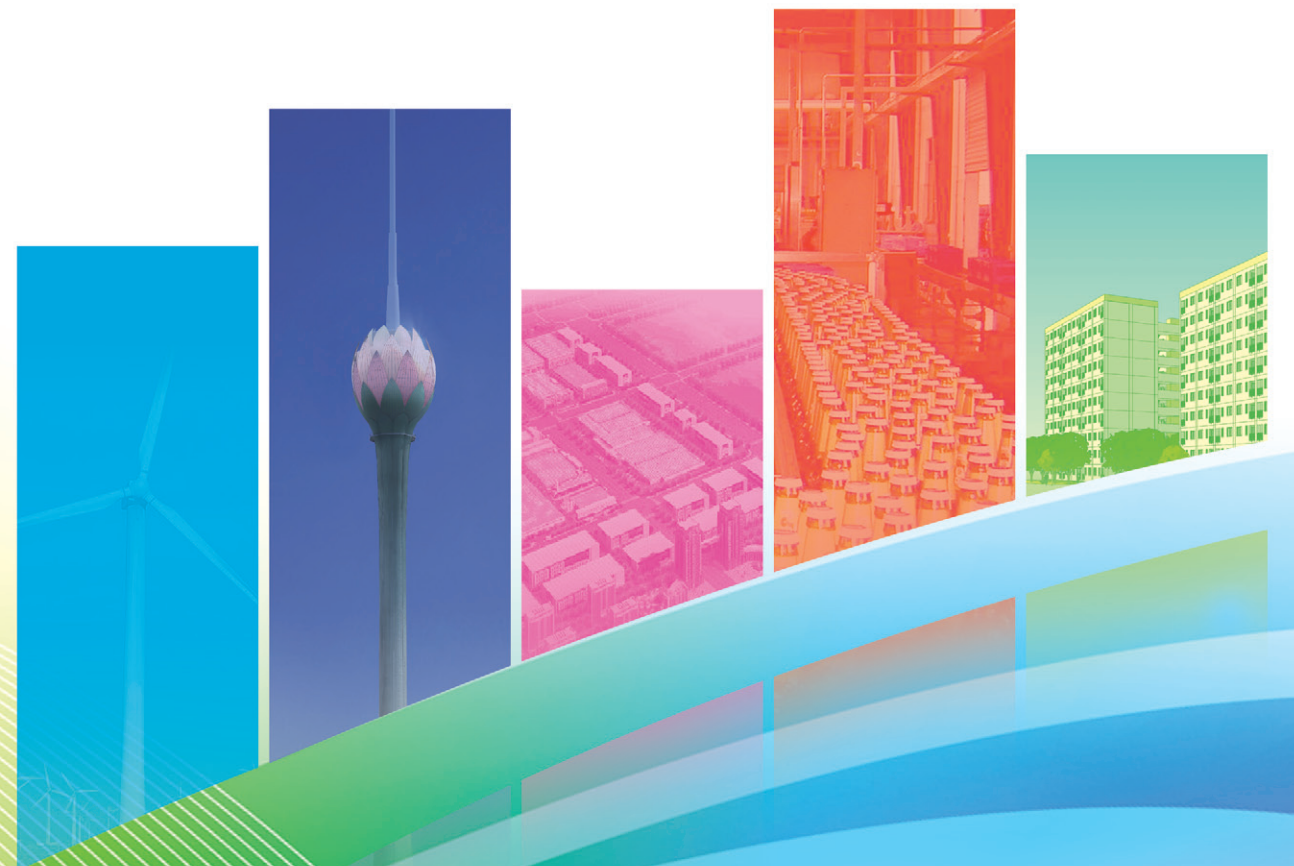**China Aerospace Long-March International**

Add: 3rd Floor, Building D, International Finance and Economy Center,
      No.87 Xisanhuan Beilu, Haidian District, Beijing
Post Code: 100089
Tel: 0086-10-57530011
Fax: 0086-10-88824155
Http://www.alitchina.com

OVERSEAS ENGINEERING BUSINESS

China Aerospace Long-March International

OVERSEAS ENGINEERING BUSINESS

China Aerospace Long-March International

CONTENTS 目录

COMPANY PROFILE
公司简介

Aerospace Long-March International Trade Co., Ltd (ALIT), is devoted to exporting and importing aerospace-related equipment and technology.

Backed by world-class technologies, R&D and manufacturing capabilities of Chinese aerospace industry, ALIT is committed to serving as a bridge in aerospace industry between China and the rest of the world.

ALIT is an active player in the following major lines of business:

● Export and Import of defense equipment, technologies, and services

● Overseas project business, including engineering design, equipment purchase and integration, construction and project management

● Export of equipment, technologies and services for security, anti-terrorism, anti-riot, disaster relief and reduction

● Export of space technology application in such area as advanced energy, new materials, electronic-communications, energy saving and environmental protection, petroleum and petrochemical equipment

● International cooperation on aerospace technologies such as rocket motor, aerodynamic design, ground system of satellite communication, guidance and TT&C

For the above major lines of business, ALIT is capable of providing users with tailor-made systematic solutions. The cooperation with ALIT may take the form of products supply, personnel training, transfer of technology (TOT), joint R&D and cooperative production.

ALIT strictly abides by international laws and Chinese government's commitment to non-proliferation. Endowed with first-class products, services and credit, ALIT is committed to promoting communication and cooperation with friends and partners worldwide.

01 能源开发
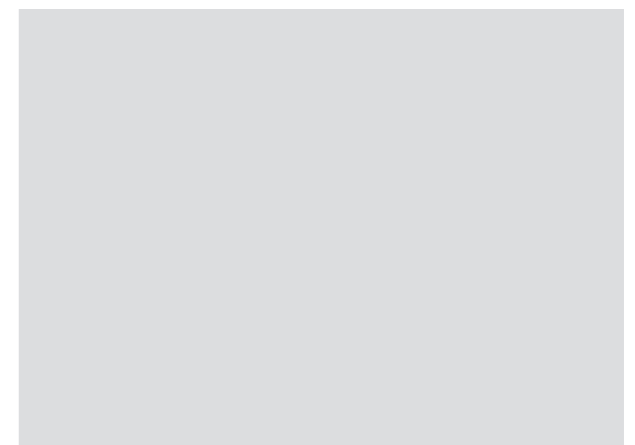## ENERGY DEVELOPMENT

01 ENERGY DEVELOPMENT 能源开发

▪Thermal Power Plant 热电厂

▪Solar Power Station 太阳能发电站

• Xinhe wind field, Inner Mongolia, China

• Distillation Equipment

• JiLin Fuel Ethanol Co., Ltd
  Project finished in Aug. of 2003

▪ Energy-saving Equipment 节能设备

The company develops cracking furnace, the furnace group of energy-saving technology. Through the regional emissions of chemical plants, waste water heat recovery systems can significantly improve the overall thermal efficiency furnace to reduce fuel consumption, reduce the emission of pollutants, without any additional energy consumption requirements, fully embodies the "pure energy" of energy-saving concept. Through the promotion of practice in petroleum, petrochemical manufacturers, the technology currently is able to save nearly 100 million of energy consumption every year all over the country.

• Energy-saving equipment

02 商业地产
COMMERCIAL & ESTATE

02 COMMERCIAL & ESTATE 商业地产

▪ TV station & TV tower 电视塔

TOTAL FLA

Construction area: 2
Tower base: 23000M²
Tower House: 4000M²
Tower height: 350M
Tower base: 15M
Tower Torso: 200M
Tower House: 25M
Mast: 110M

Tower main entrance
Tower second entrance
Tower second entrance
Site Second entrance
Groud parking
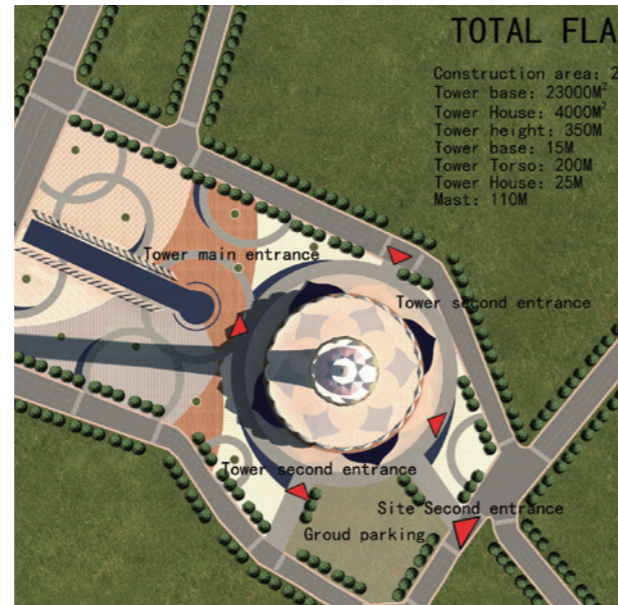
• Colombo Lotus TV Tower

TV and Telecommunication Tower and Leisure Park

Sri Lanka

▪ Amusement Park 游乐场

• Disney World, ShangHai

• Beijing ShiJingShan Amusement Park

· Hotel 酒店

· Barrack 军营

· Phoenix Hotel, WuHan

· Great International Hotel

· Royal hunting encampment project in Morocco

· HangZhou Hotel

· Vienna Hotel

▪ Apartment 公寓

• Sri Lanka Low Cost Housing Development Project

03食品加工工业
FOOD PROCESSING INDUSTRY

03 FOOD PROCESSING INDUSTRY
食品加工工业

▪ Food Processing Plant 食品加工厂

• TianJin Kang Shi Fu Instant Noodle Processing Factory

• COFCO LOHAS Fruit and Ketcup Producing Base,2009

• TianJin Coca Cola Mineral Water Processing Line

▪ Sugar Refinery 糖厂

• Bagasse Conveying System and Boiler Workshop,
  Guyana Skeleton 8400TCD Sugar Complex

• Guyana Skeleton 8400TCD Sugar Complex

• GuangXi Bodong Food Co., Ltd. of ABF, 8400TCD Sugar Complex

▪ Potato Starch Factory 土豆淀粉厂
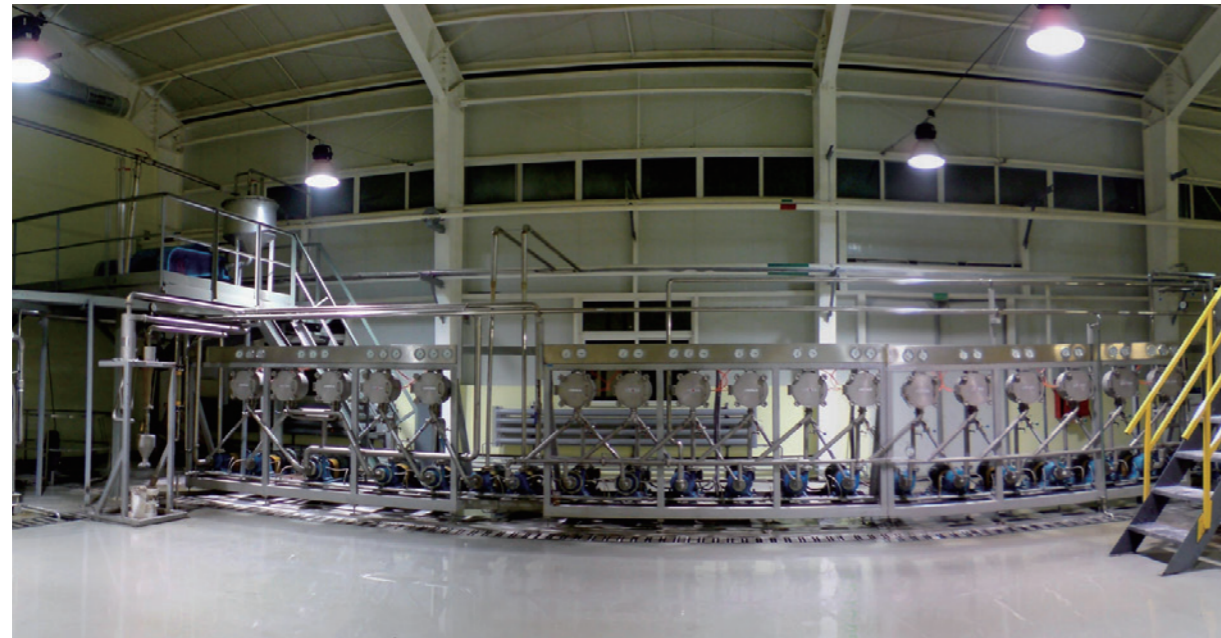
• Belarus 100T/D Potato Starch Factory, Druth 2009

• Belarus 100T/D Potato Starch Factory, Brest 2008

▪ Dairy Factory 乳制品厂

• Guang Zhe Group 300,000T/A Dairy Factory

• ShangHai YiLi Yokult Dairy Factory

• Tetra Pak China

• Tetra Pak China

• Tetra Pak China

▪Brewery 酿酒厂

• Qi Tai Wheat Germ Project (Beer)

• Qi Tai Wheat Germ Project (Beer)

• Beer Production Line

▪Green House Project 绿色大棚项目

• Green House Project in ShanDong

• Green House Comprehensive Utilization in Anhui Province, China

- National Grain and Corn Storage Silos 国家粮食储备仓库

• XinJiang National Grain and Corn Storage Silos

• HeNan Corn Storage Silos and Conveying System

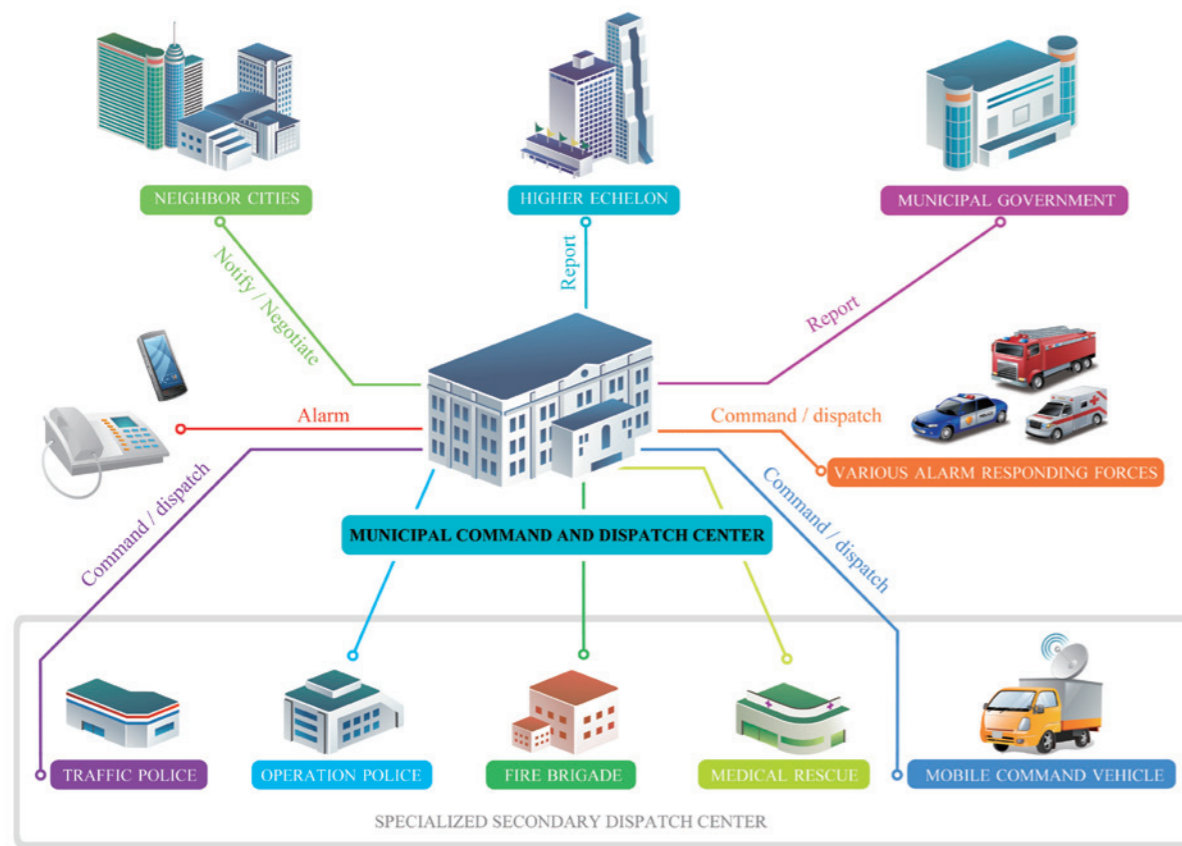• XinJiang National Grain and Corn Storage Silos (3D Plan Schedule)

04 公共安全
PUBLIC SECURITY

04 PUBLIC SECURITY 公共安全

▪ City Emergency Command and Dispatch System
城市应急指挥系统

▪ Command and Dispatch Relationship

Emergency command and dispatch system (ECDS) is an urban information infrastructure based on information network, which integrates voice, data and image and features seamless interaction among systems. The ECDS incorporates and integrates the emergency command and dispatch for public security, fire fighting, sanitation and rescue, and traffic accident into a management system through the integrated information network and communication system. It achieves unified alarm receiving, unified command, united action and rapid response by means of shared command platform and integrated information.
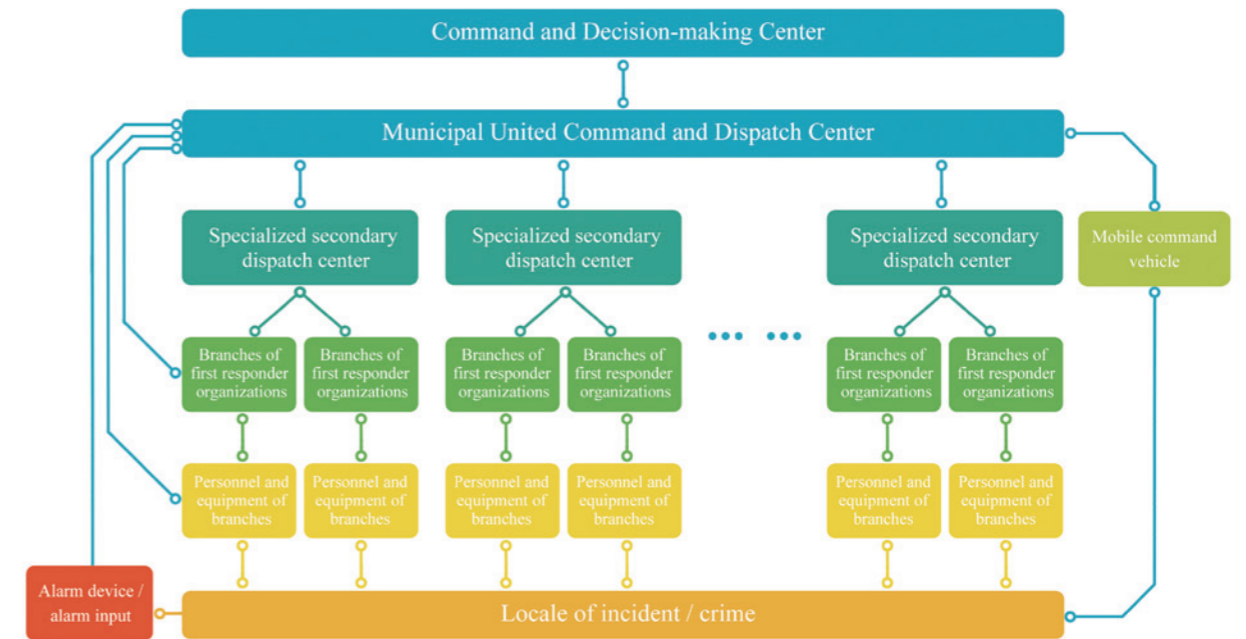

Process Flow of ECDS

Main objectives:

• Establish a unified command and communication system
 - Coordinates public security command center, fire fighting command center, traffic police command center and emergency medical rescue command center to achieve unified alarm receiving, unified command, united action and rapid response

• Integrate and perfect emergency information resources and communication resources nationwide
 - Construction a wired/wireless cross-platform communication network (combines computer network, PSTN network, video monitoring/conferencing system and digital trunk communication system) with information services of GPS location and Police GIS

• Application of the advanced computer-aided dispatch technology
 - Make the process flow more scientific and accurate, the response speed maximized and the probability of human error minimized

• Build a scientific decision-making system
 - Design unified alarm record database, generate various analysis reports, and enrich and perfect prior plan database to provide support for emergency response, command and dispatch, and decision-making analysis

Main features:

• Real-time video for remote monitoring
• Local and remote playback historical video record
• Bidirectional voice communication
• Long-distance image backup
• Centralized management and distributed storage
• Linkage alarm system and response
• Remote browsing by internet
• Linkage to remote control center
• Linkage to multi-stage police command center and remote control center
• Security administration, ID authentication and license

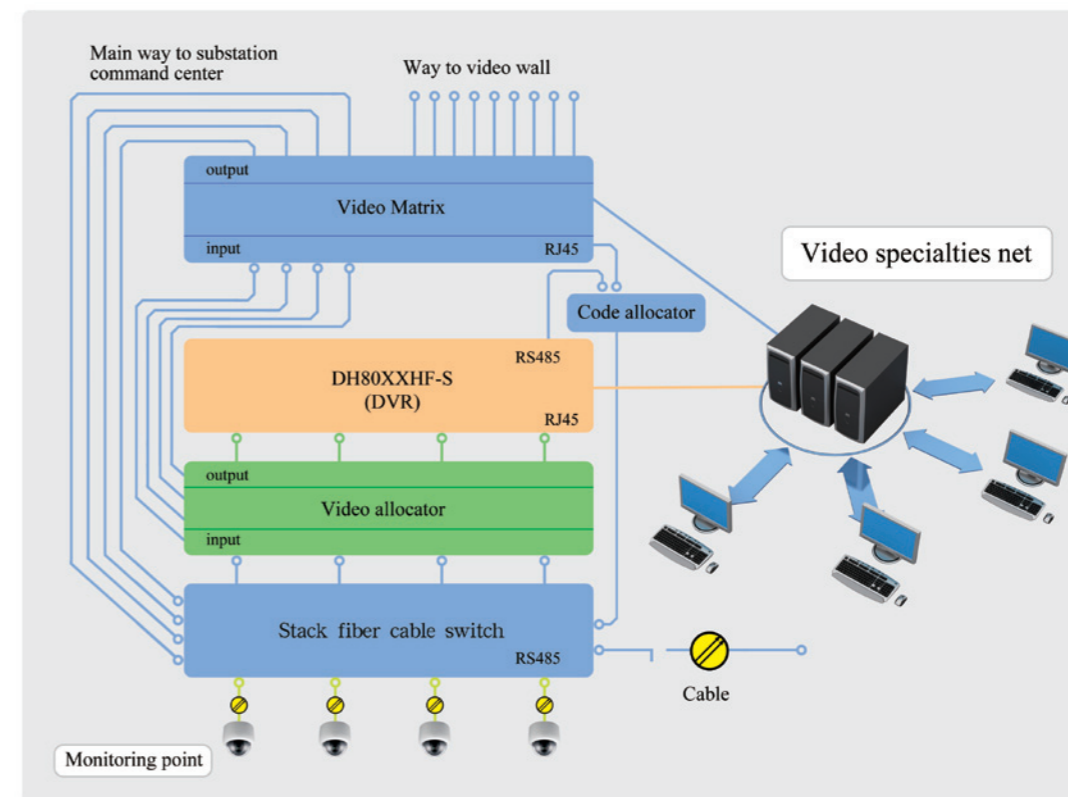# ▪ City Emergency Command and Dispatch System

城市应急指挥系统
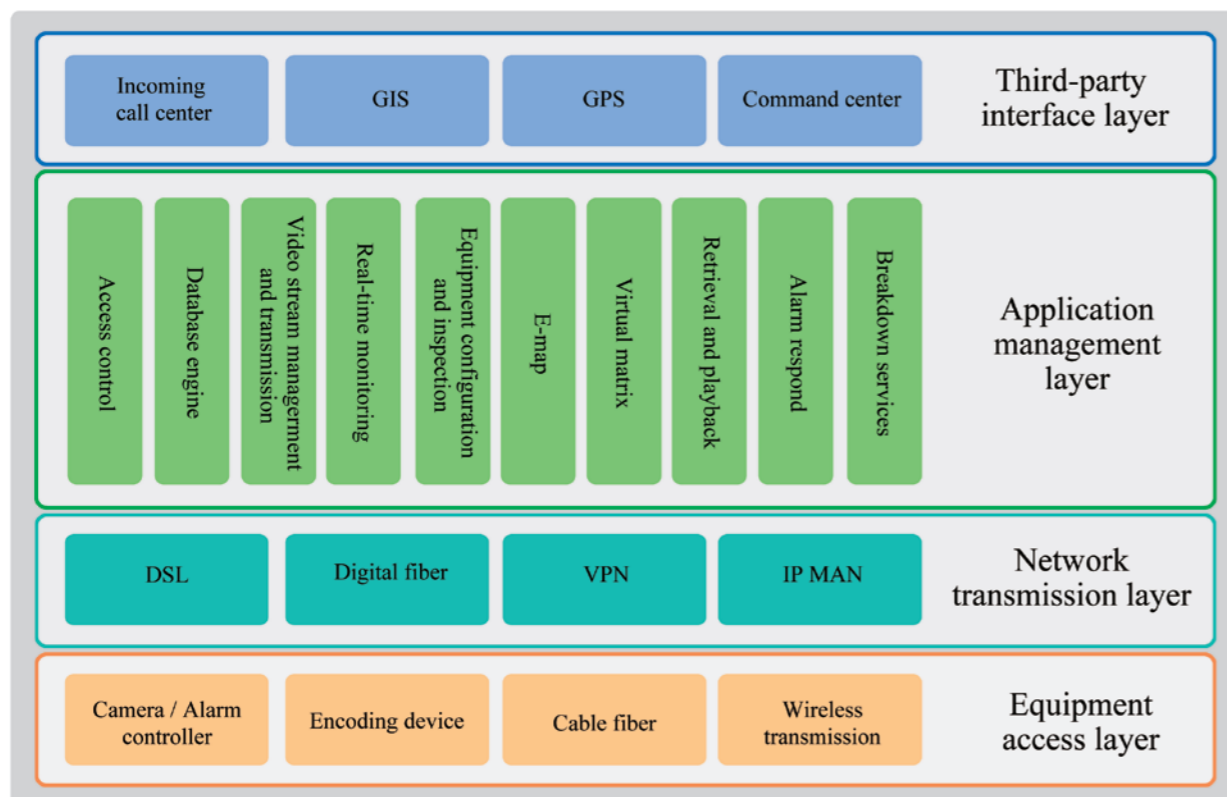
• Multi-layer architecture of the system

Project example 1. Mixed-signal mode video surveillance and alarm system

The basic units of Mixed-signal Mode Video Surveillance and Alarm System (MMVSAS) are police stations in urban which received and applied information. In order to respond and then crack down on crime, video and alarm message should be connected to police stations, and that is the way to exert farthest efficiency in MMVSAS. Consequently, the principle of technology course and strategy in MMVSAS is down to up. Actually, a mixed-signal mode is a stage in building up public security net, and also a prophase project of city alarm and surveillance system. The project has features such as easy to implement, low technology request and evident achievement.

Project example 2. Digital mode video surveillance and alarm system

A city alarm surveillance system should be net form, so that is convenient for realized massive video information, and circulated and shared and managed alarm information. Whereafter, the system is easy to pick up useful message in massive video and increase efficiency and then realize early warning by behavior analysis technology.

• Project example 1. Mixed-signal mode video surveillance and alarm system
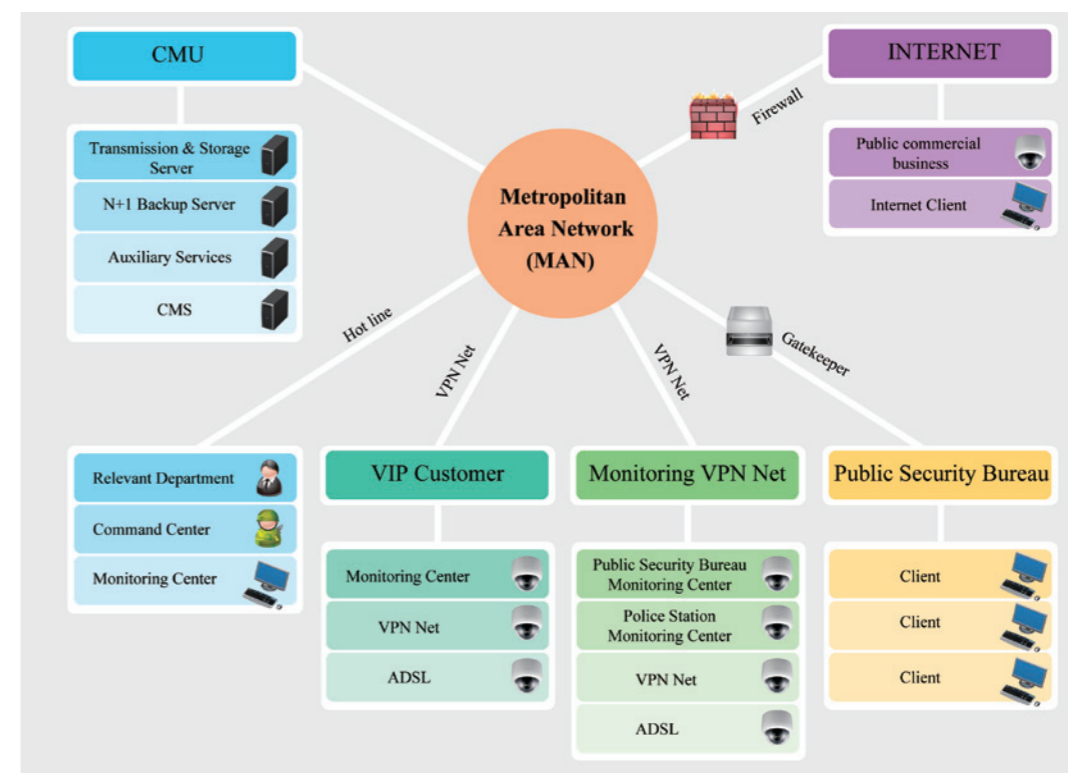
• Project example 2. Digital mode video surveillance and alarm system

▪ City Emergency Command and Dispatch System
城市应急指挥系统

• • Monitoring and Control Solution of Prison

• General Management Solution of Public Health


• Harbor Administration Solution

• Safety Precaution Solution of Nuclear Power Plant

▪ Intelligent Traffic Management System
智能交通管理系统

Intelligent traffic management system which adopted advanced technology and equipments is based on the actual needs of urban traffic management. It constructed basic resource sharing, interface standards, good scalability, highly integrated for the modern traffic management system.

By constructing five subsystems as traffic signal control, e-police, vehicle inspection, traffic guidance, and command center, intelligent traffic management system can achieve auto collection, comprehensive analysis, further research, widely application on urban traffic management dynamic and static information. The system is characterized by real-time, safe, reliable and harmonious intelligent traffic management and control system. It can bring traffic police's dynamic control, coordination and command abilities into full play. At the same time, ITMS will also provide technology and data support for decision-makers.
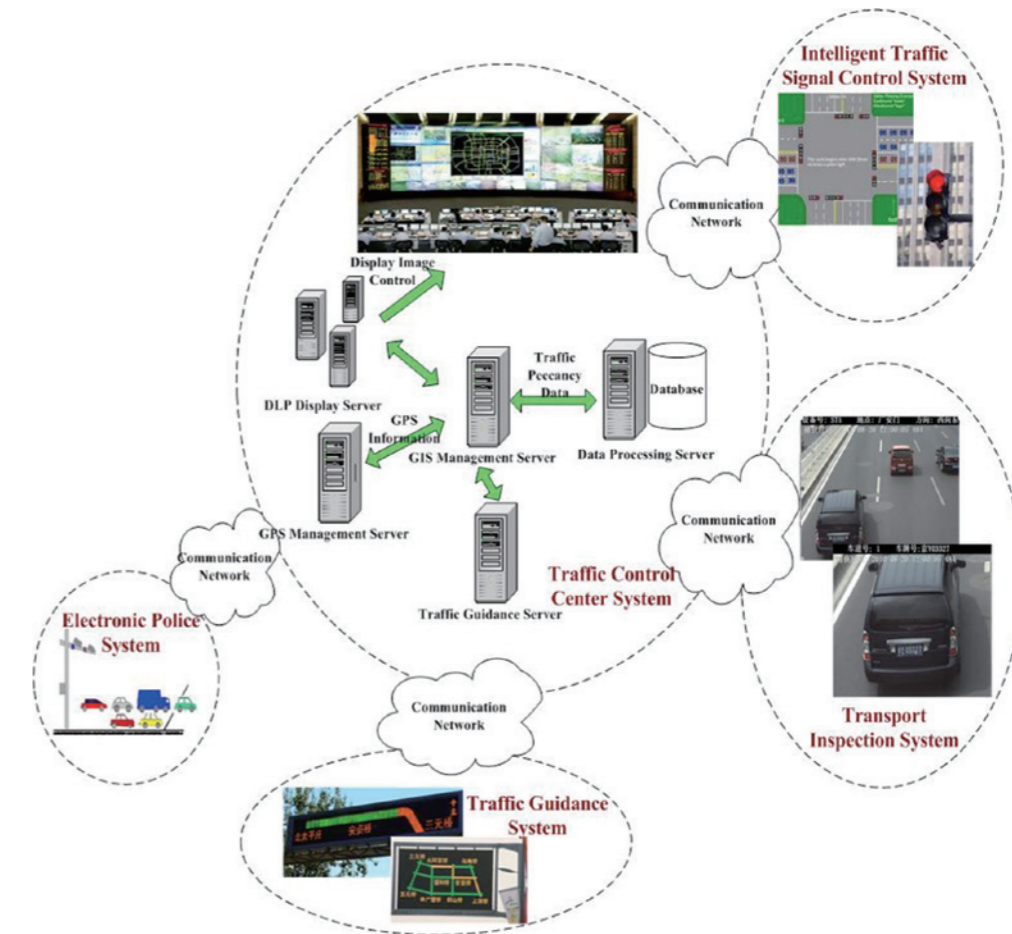

• System Architecture

▪ Intelligent Traffic Management System

智能交通管理系统
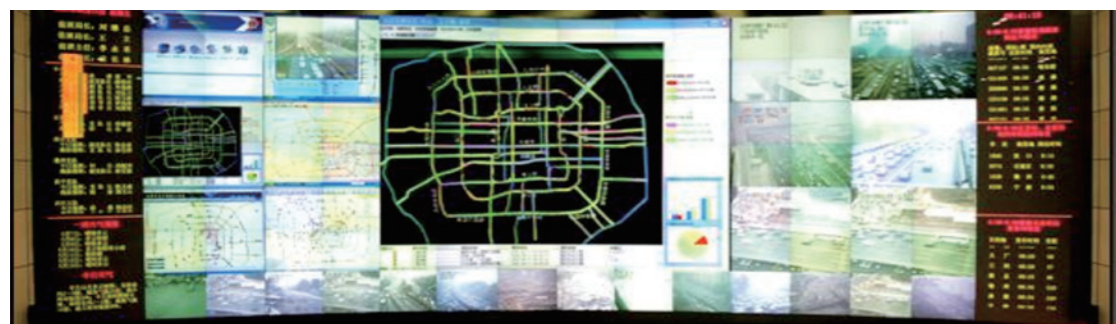
Traffic Command Center System

Traffic command center system accesses to the existing and new systems with the integration platform of transportation geographic information system (GIS-T) and makes the information resources sharing become possible, brings the effectiveness of the system into full play and forms a scientific and efficient traffic control scheduling system with the functions of data acquisition, processing, decision making, organization and coordination and command through central data processing system.
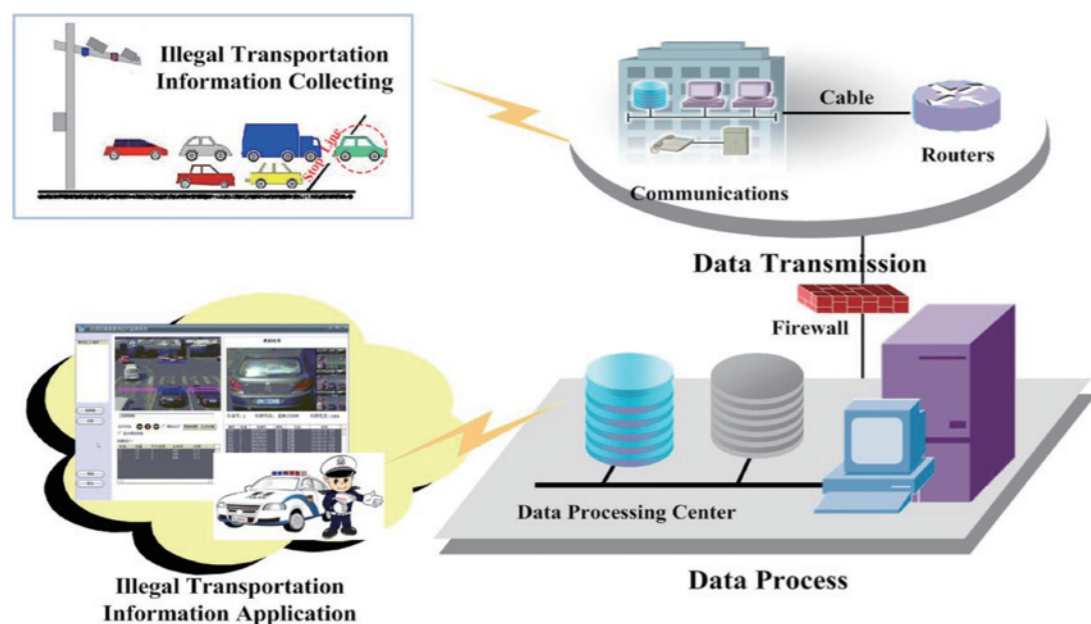
Electronic Police System

Electronic police system relies mainly on video devices to gain vehicle information, such as vehicle license plate, vehicle color, vehicle type, vehicle sign, vehicle speed and so on, which provides vital evidence for transportation law enforcement. Electronic police system could apply to the following occasions: running red lights, speeding, running one-way or no entry line, running bus lane, emergency lane occupancy, running traffic channelized line and so on.

Vehicle Inspection System

Vehicle inspection system obtains information such as vehicle license plate by video equipment, and then compares with blacklist database to achieve the functions of monitoring and checking, hit-and-run, stolen vehicles, scrapped vehicles, fake plate vehicles, suspect vehicles, vehicles on traffic offense blacklist, special vehicles (dangerous goods vehicles, school buses, etc.) and so on.

Intelligent Traffic Signal Control System

Intelligent traffic signal control system can accomplish coordinated control between the inductive and adaptive signals in certain area, green-wave coordinated control in certain route and bus signal priority control, which effectively improve the vehicles' speed, alleviate the traffic congestion, reduce the pollution discharged by the cars, and provide good environment for travel.
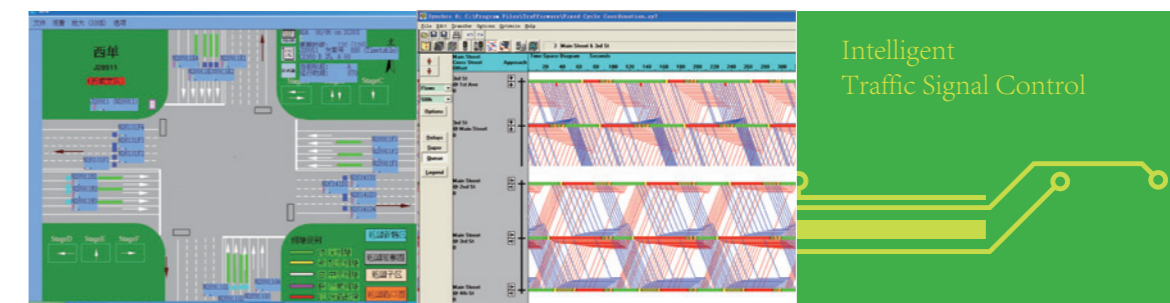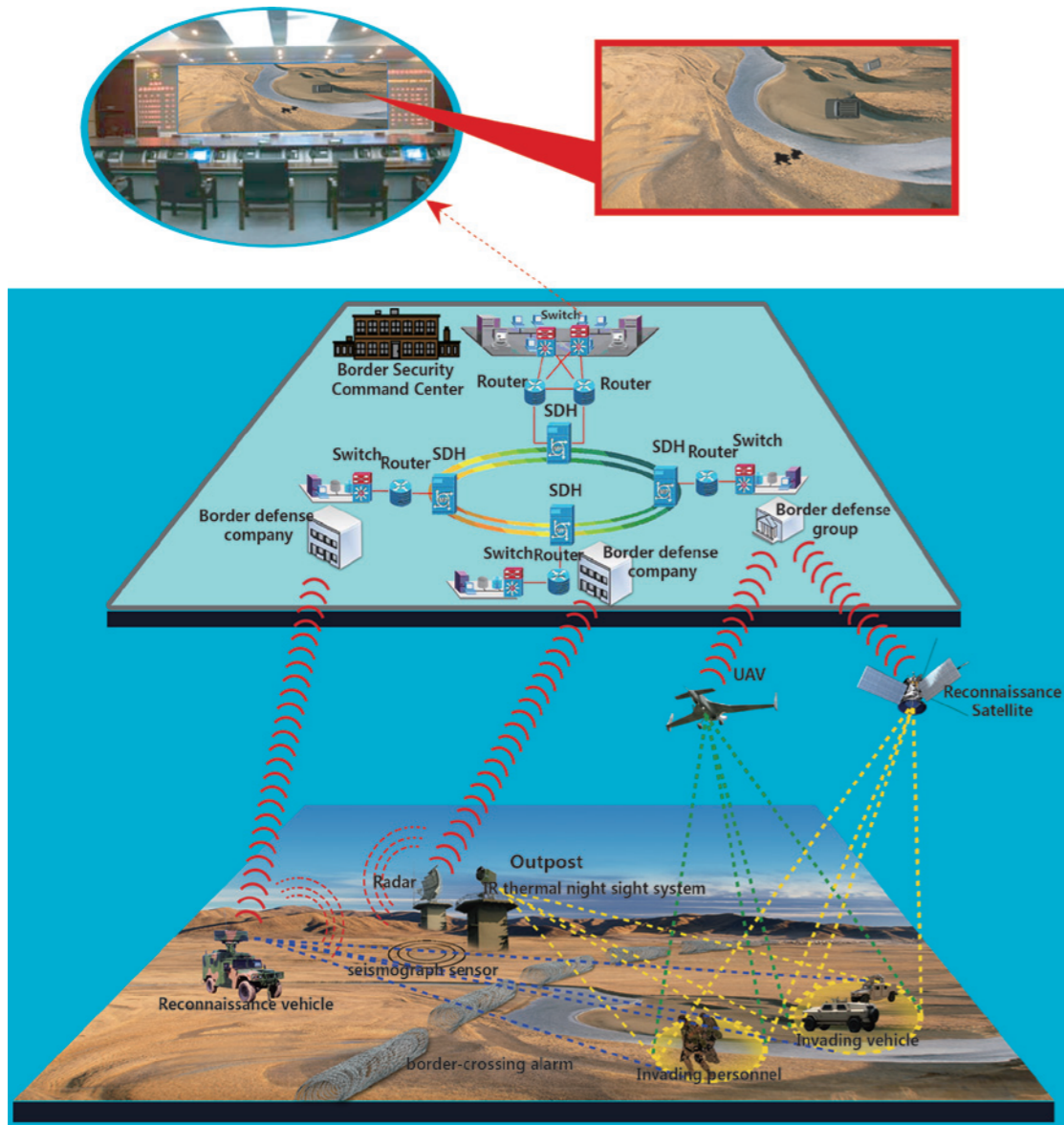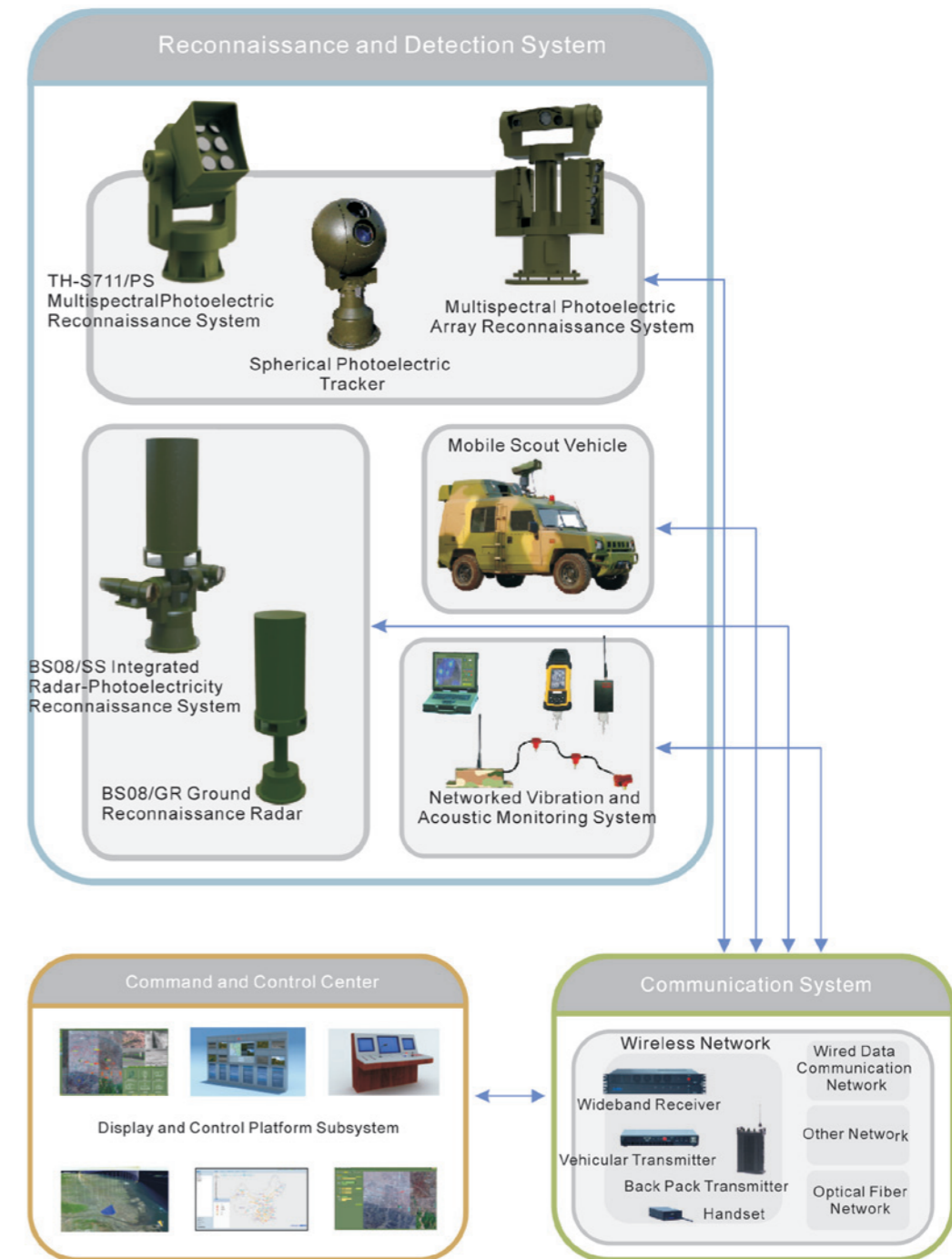

Traffic Guidance System

Traffic guidance system obtains dynamic traffic information on real-time, processes and analyses them, and then releases the traffic guidance information by Variable Message Sign(VMS) which is installed at main road, public transport hub, toll station and toll plaza etc. It provides travel information service for the public and decision support for traffic management.

Electronic Surveillance & Frontier Control System

边境电子监控系统

• System Layout

Reconnaissance and Detection System

TH-S711/PS Multispectral Photoelectric Reconnaissance System

Spherical Photoelectric Tracker

Multispectral Photoelectric Array Reconnaissance System

Mobile Scout Vehicle

BS08/SS Integrated Radar-Photoelectricity Reconnaissance System

BS08/GR Ground Reconnaissance Radar

Networked Vibration and Acoustic Monitoring System

Command and Control Center

Display and Control Platform Subsystem

Communication System

Wireless Network

Wideband Receiver

Vehicular Transmitter

Back Pack Transmitter

Handset

Wired Data Communication Network

Other Network

Optical Fiber Network

• Composition Diagram

05
市政项目
MUNICIPAL WORKS

05 MUNICIPAL WORKS 市政项目

·Water Supply and Drainage System 给排水系统

• Construction Site of Water Supply Project for ChangBei International Airport, NanChang

• Construction Site of Water Supply Project for ChangBei International Airport, NanChang

• Aerial Day View of KeChuang New City in Economic Development Zone in YiXing

• Layout of Water Supply and Treated Water Project in ShiGuai District, BaoTou

• Water Supply Project in Zambia

▪Sewage Treatment Plant 污水处理厂

• QinYang City Sewage Treatment Plants


• JiaoZuo City Sewage Treatment Plants

• QinYang City Sewage Treatment Plants

• JiaoZuo City Sewage Treatment Plants

▪HT-L Coal Gasification Technology 煤粉加压气化技术

"HT-L Coal Gasification Technology" owns independent intellectual property rights. Through coal gasification burner, it can almost transform solid-state coals of all qualities into a clean gaseous mixture of carbon monoxide and hydrogen efficiently, cleanly, environmental protectively and cost-effectively. The generated gas mixture is an important raw gas of industrial products, which can be widely applied to make into chemical fertilizer, produce methyl alcohol and dimethyl ether, produce hydrogen gas, gasoline and diesel oil, and generate electricity as IGCC fuel.
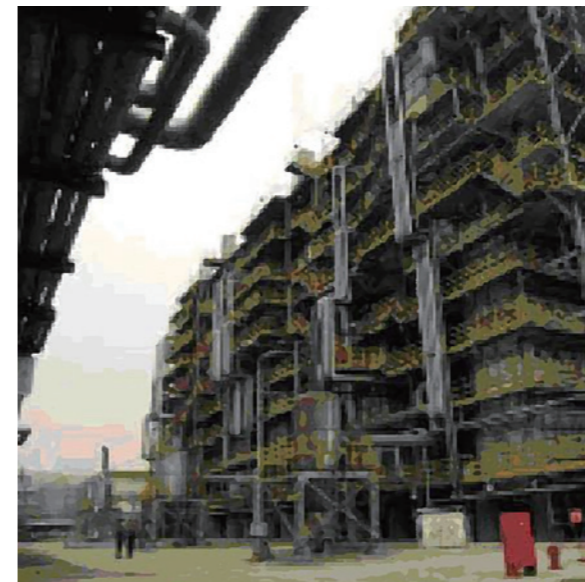
▪ SCR Smoke Denitrification Technology 烟气脱硝技术

SCR Smoke denitrification technology is creative saltpeter pull-out technique developed by the R&D unit, fully exerting the leading majors advantage of aerodynamic and fluid dynamics, in the way of technical introduction, digestion and absorption and re-innovation.
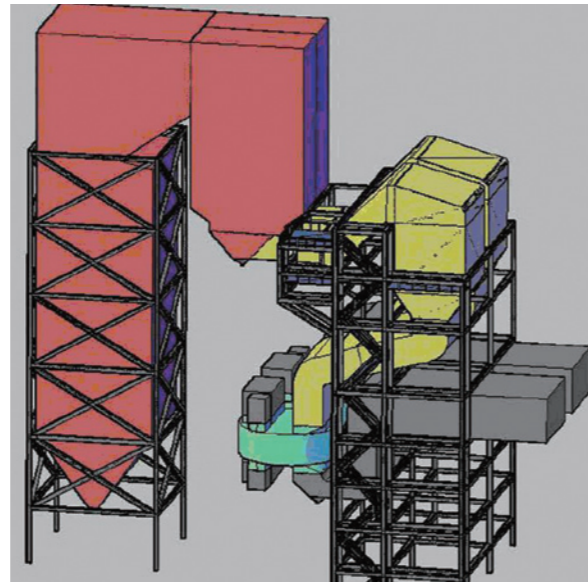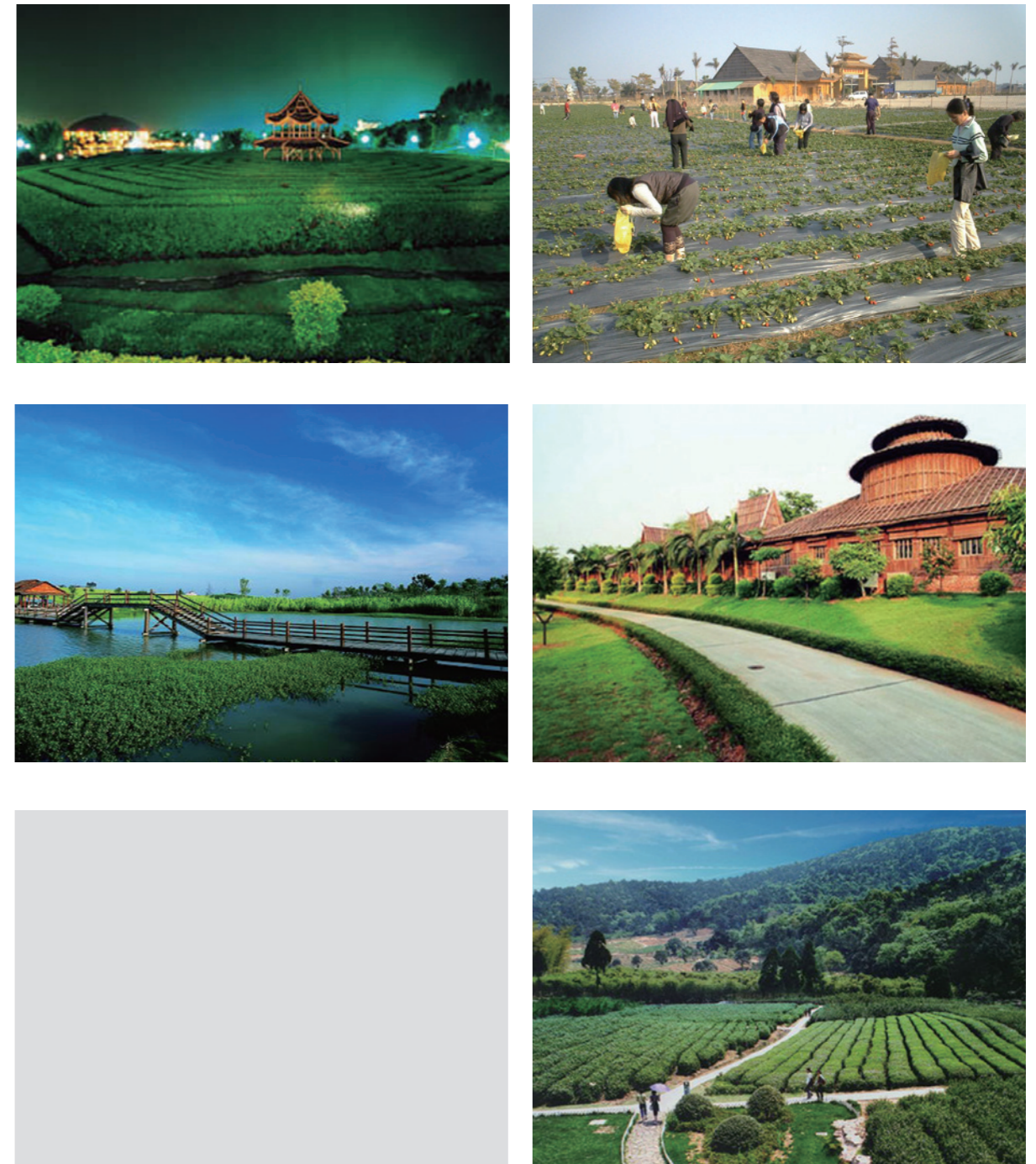

06 总体规划
MASTER PLAN

▪Electronics Industrial Park 电子工业园

▪Agricultural Ecological Park 农业生态园

07 工业机械

INDUSTRIAL MACHINERY

07 INDUSTRIAL MACHINERY 工业机械

▪ Mining Heavy Equipment 采矿重型设备

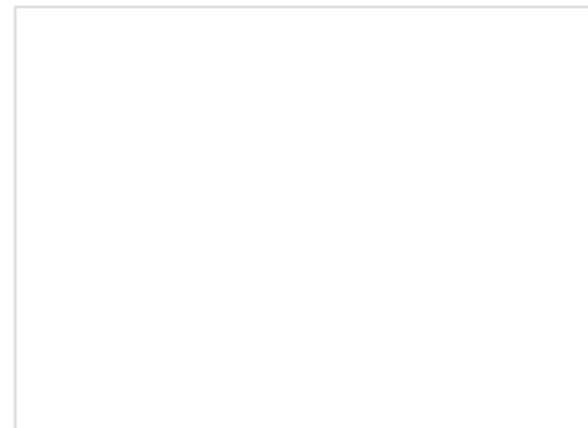• Mining self-loading vehicles

• Hydraulic Support for Coal Mines

• Ore Sorting Equipment

• Spiral Classification Instrument

• Rotary Kiln

▪ Petroleum and Petrochemical Equipment 石油与石化设备

• Chassis for Oil Field Vehicle

• Dispatching Station of Natural Gas SCADA System

• Vertical (GSB-L) High Speed Pump

• Special Valve

• Long-distance High-efficiency Oil Transfer Pipeline Pump

• Pipeline

▪ Paper Industry 造纸工业

• Paper Production Line
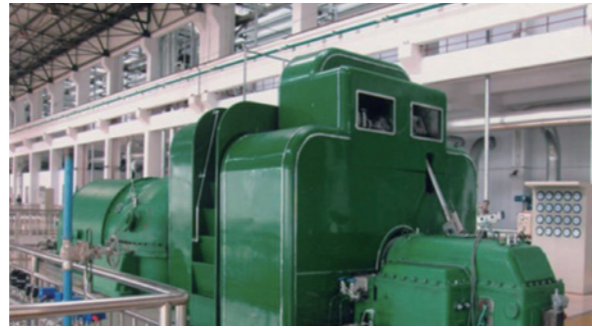

• Chen Ming Paper Industry

• Jin Yuan Paper Corporation

▪ Equipment Manufacture 装备制造

• Machinery Manufacture

• Turbine Manufacture

• Machinery Manufacture

• Boiler Manufacture

• Machinery Manufacture

• Sugar Cane Shredder

• Wallpaper Production Line

08 培训项目
TRAINING PROGRAM

08 TRAINING PROGRAM 培训项目
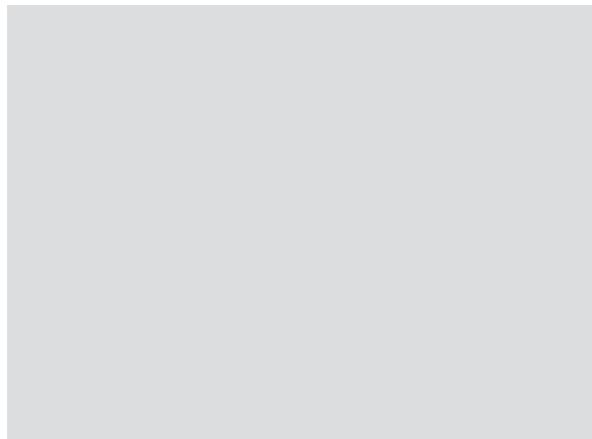

• National Agro-planting Training Program

• Cane Harvester Operational Program in Cane Field

• Practical Training Course on DCS Guangxi Sugar Factory

• National Lines of Program on Operation and Management Course for Senior Managers of State Agro-Enterprises

OVERSEAS
ENGINEERING
BUSINESS