



# INTERNATIONAL ENGINEERING



中国航天

**中国长城工业集团有限公司**  
CHINA GREAT WALL INDUSTRY CORPORATION

## 航天系统集成商 – SPACE SYSTEM INTEGRATOR

中国长城工业集团有限公司(长城公司)创建于1980年，隶属于中国航天科技集团公司(CASC)，是中国政府授权的经营商业发射、提供卫星及开展国际空间技术合作业务的商业机构。

Established in 1980, China Great Wall Industry Corporation (CGWIC) is the sole commercial organization authorized by the Chinese government to provide commercial launch services, satellite systems and to carry out space technology cooperation. It is a subsidiary of China Aerospace Science and Technology Corporation (CASC).

## 国际工程 - INTERNATIONAL ENGINEERING

迄今为止，在我们40年的发展中，已经完成了许多国内外项目的咨询，工程，施工和EPC承包的任务。CGWIC在这一领域拥有丰富的经验，一直在建立系统的项目管理系统和项目执行模式。

CGWIC has already fulfilled many tasks of consultation, engineering, construction and EPC contracting for many domestic and overseas projects during our 40-years legend. With abundant experience, CGWIC has already established a effective systematic project management system and project execution capability.



航天

SPACE

用科技连接你我

CONNECTING THE WORLD AND BEYOND

发射场

LAUNCH SITE



选址 Siting  
可研 Feasibility  
设计 Design  
施工 Construction  
设备 Equipment

发射场

LAUNCH SITE



# 探空火箭

## SOUNDING ROCKET SYSTEM

总体布局 General Layout  
初步设计 General Design  
详细设计 Detail Design  
施工图 Construction Drawing  
技术支持 Technical Support



Environment Test system



Sounding rocket Assembly Workshop



Lathe



Propellant Mixer System



Hand press Machine



Sand Blast System



Motor Fire test



Vibration environment testing equipment

# 探空火箭

# SOUNDING ROCKET SYSTEM



# 卫星总装厂房

## ASSEMBLY, INTEGRATION AND TESTING CENTER (AITC)

EMC Test



Optical Payload Lab



Mass Property  
Measurement



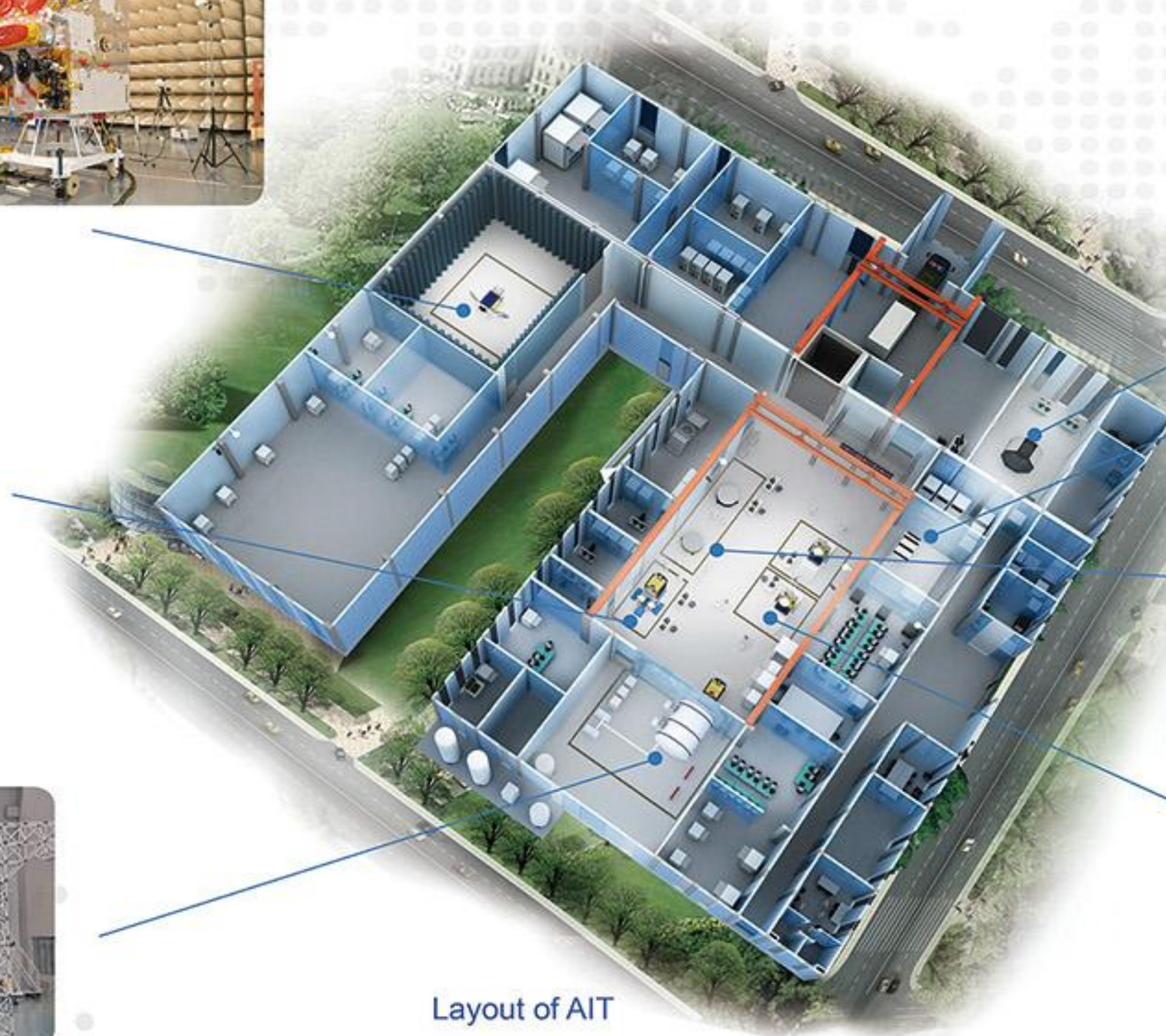
Vibration System



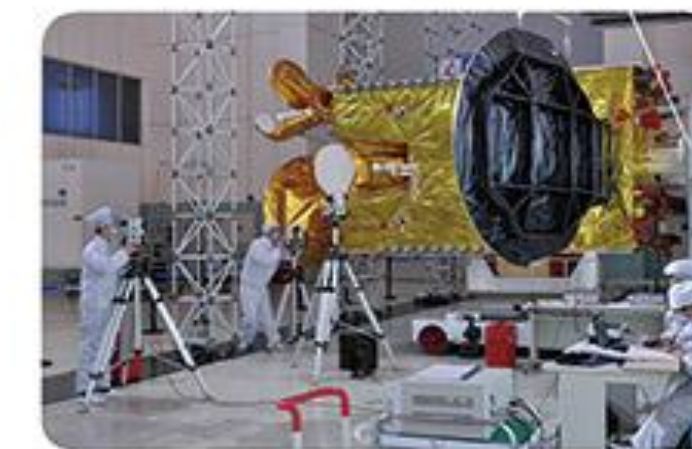
Thermal Vacuum  
Chamber



Layout of AIT



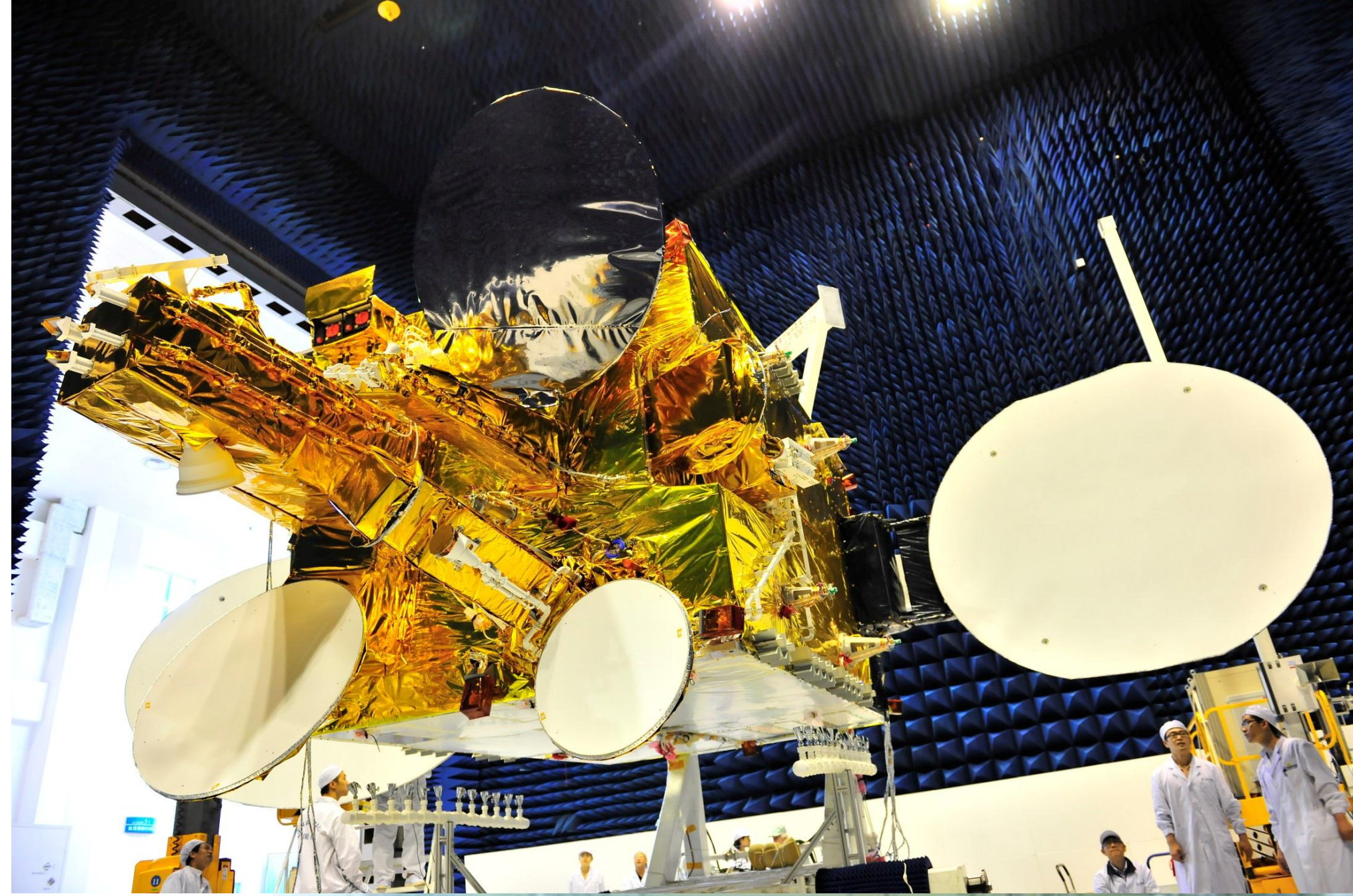
Alignment





卫星总装厂房

ASSEMBLY,  
INTEGRATION AND  
TESTING CENTER  
(AITC)



卫星地面站

SATELLITE GROUND  
STATION

地面控制站

GROUND CONTROL STATION

电信港

TELECOMMUNICATION PORT

遥感卫星接收站

REMOTE SENSING SATELLITE RECEIVING STATION



卫星地面站

SATELLITE GROUND  
STATION



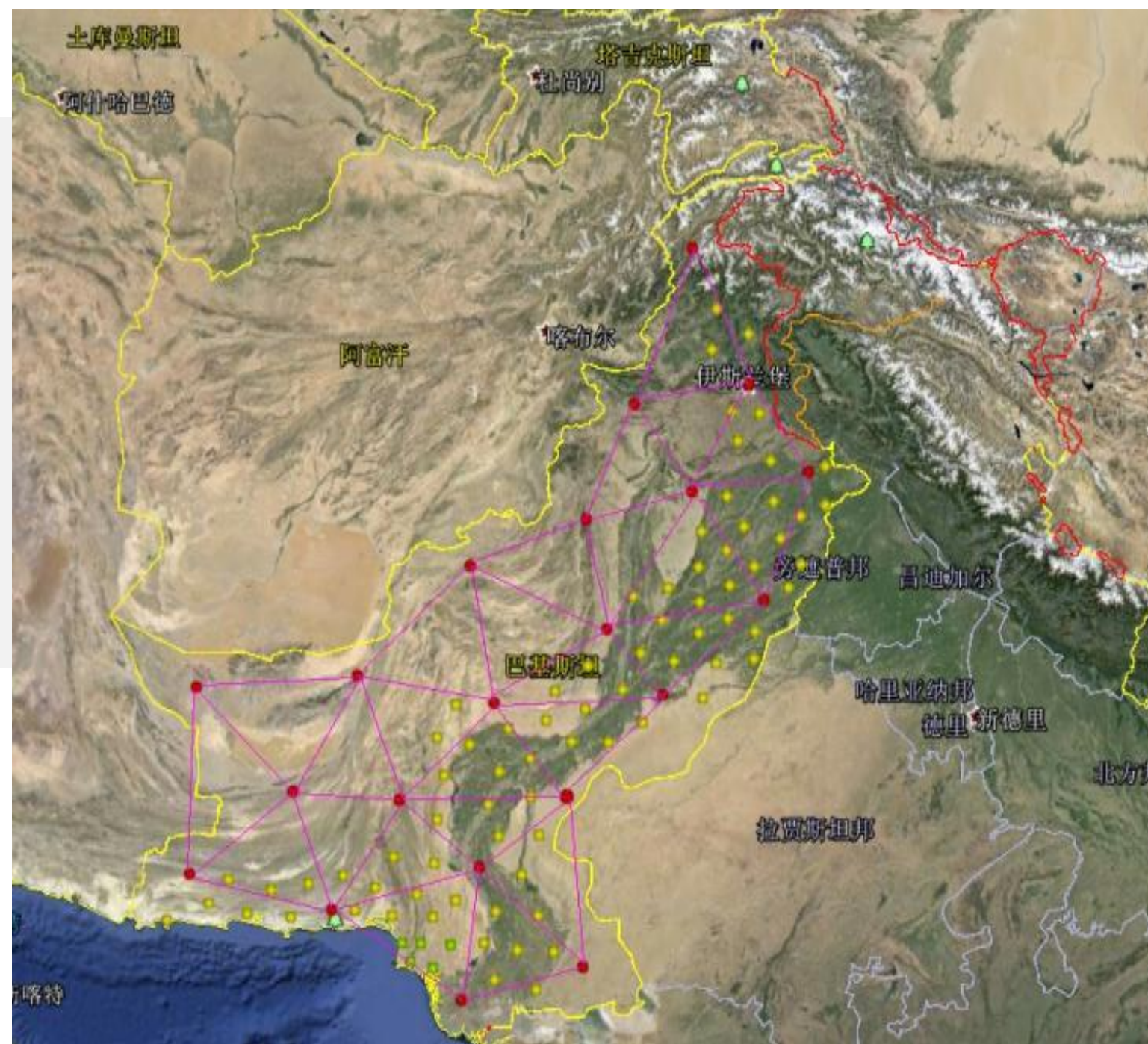
# 导航应用

## NAVIGATION APPLICATIONS

### 巴基斯坦国家定位服务网络项目

#### PAKISTAN NATIONAL POSITIONING SERVICE NETWORK PROJECT

- 20 frame network stations
- 80 reference stations
- 3 Mission Control Centers



### 老挝国家精准定位服务项目

#### LAOS NATIONAL PRECISION POSITIONING SERVICE PROJECT

- 12 frame network stations
- 5 Regional reference stations
- 1 Mission Control Centers



航天技术应用产业园

AEROSPACE  
TECHNOLOGY PARK



航天综合体项目

AEROSPACE  
COMPLEX PROJECT



产业园区

INDUSTRIAL PARK



汽车产业  
CAR INDUSTRY

无人机产业  
DRONE INDUSTRY

电子设备产业  
ELECTRONIC EQUIPMENT INDUSTRY

新材料产业  
NEW MATERIALS INDUSTRY



生产科研基地

PRODUCTION &  
RESEARCH BASE





多媒体转播系统

MULTIMEDIA  
BROADCASTING  
SYSTEM



电视转播  
DIRECT TO HOME (DTH)



节目制作  
PROGRAM PRODUCTION CENTER



电视台办公楼  
TV STATION OFFICE BUILDING

# 电视塔

## TV TOWER



地标项目

LANDMARK PROJECT

改善电视、广播的效果

EFFECTIVENESS IMPROVEMENT OF TV &  
RADIO BROADCASTING

文化娱乐和休闲场所

VENUES FOR CULTURAL,  
ENTERTAINMENT AND LEISURE EVENTS

增加频率租用及旅游收入

INCREASE FREQUENCY OCCUPATION  
RENTAL AND TOURISM REVENUE

增加就业及税收

INCREASE EMPLOYMENT AND TAXES



**跨界**

**CROSSOVER**

**让世界没有边界**

**A WORLD WITHOUT BOUNDARIES**



## 智能城市安全系统

## SMART CITY SECURITY SYSTEM

城市安全包括警察安全，交通监控，消防，灾难和紧急处理等。  
长城公司可以为用户提供智能城市安全管理的完整解决方案。

CITY SECURITY INCLUDE POLICE SECURITY, TRAFFIC MONITORING, FIRE CONTROL, DISASTER & EMERGENCY ETC.  
CGWIC CAN PROVIDE USERS WITH COMPLETE SOLUTION FOR SMART CITY SECURITY MANAGEMENT.

实时监控及数据传输  
ONLINE MONITORING AND DATA TRANSFER

可视化集成  
VISUAL INTEGRATION

大数据分析处理  
BIG DATA PROCESSING AND ANALYSIS

动态控制  
DYNAMIC CONTROL



空中感知  
AERIAL SENSING



要地低空防御  
LOW-ALTITUDE DEFENSE

智慧园区

SMART PARK

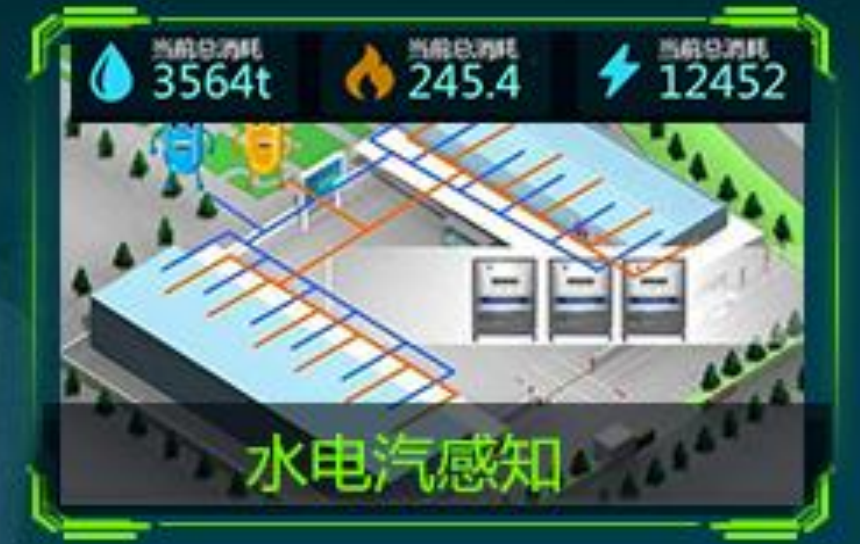
地面感知  
GROUND SENSING



摄像雷达感知  
CAMERA RADAR SENSING

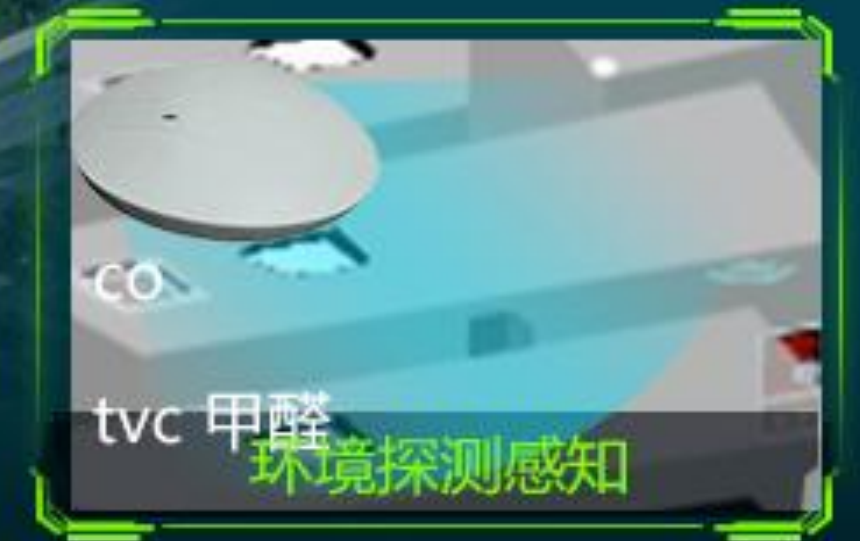


高清监控感知  
HD SURVEILLANCE SENSING

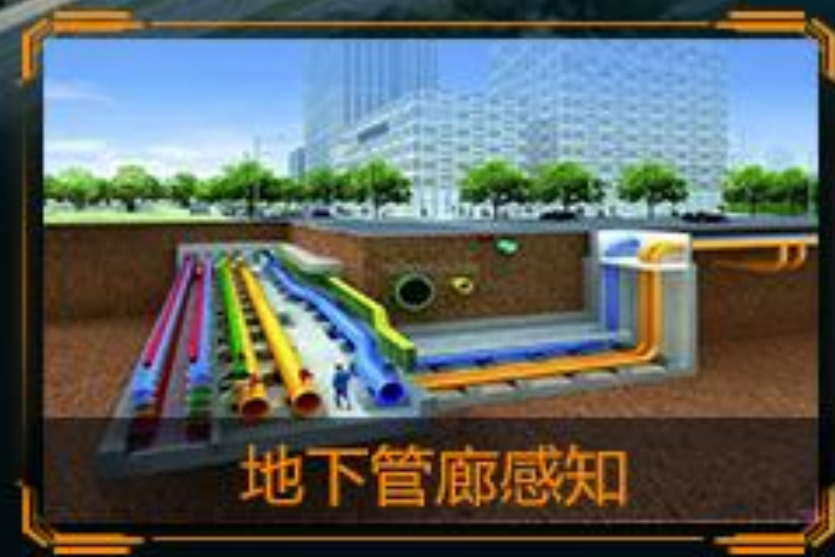


水电汽感知  
WATER, ELECTRICITY, GAS SENSING

地下感知  
UNDERGROUND SENSING

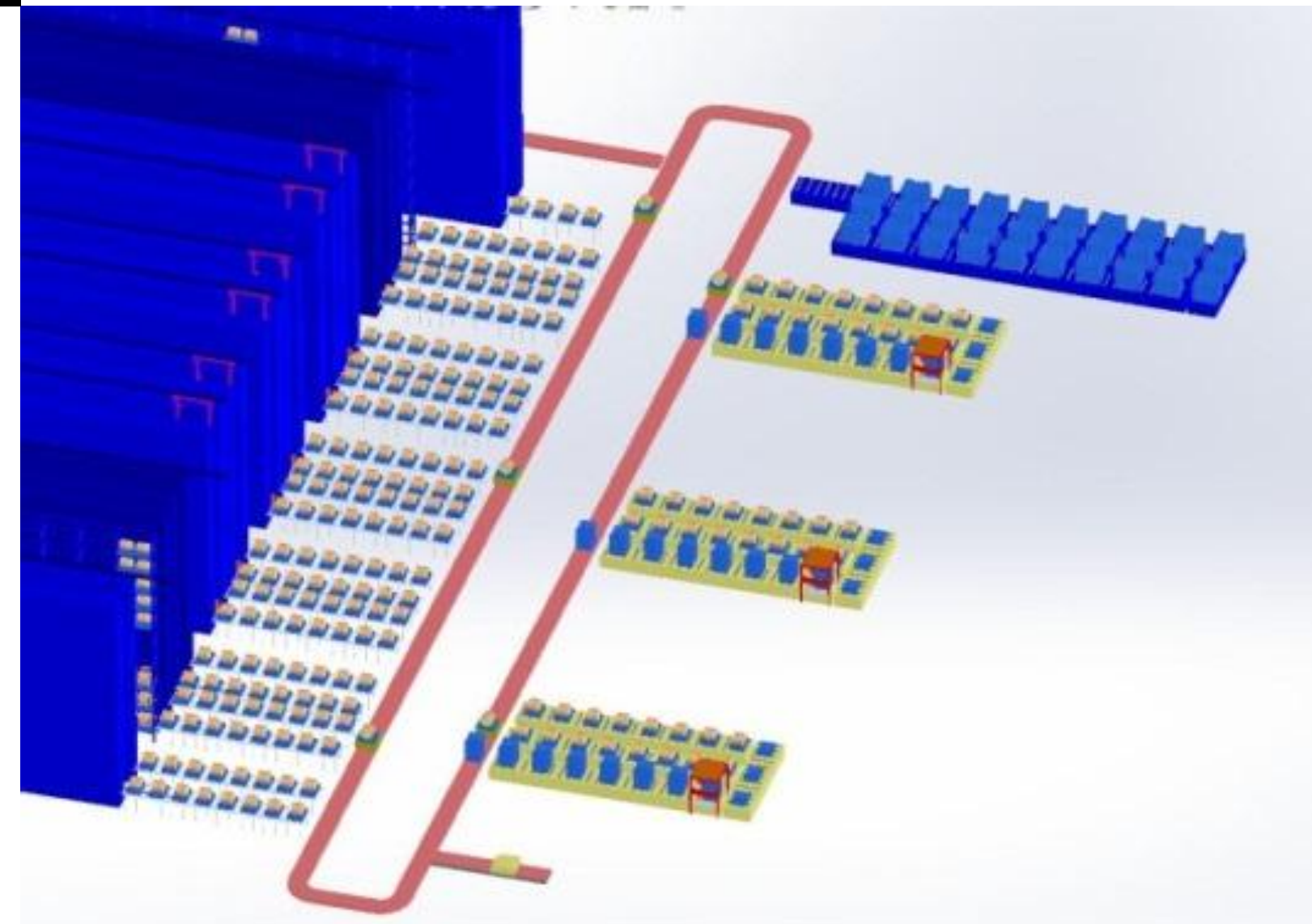
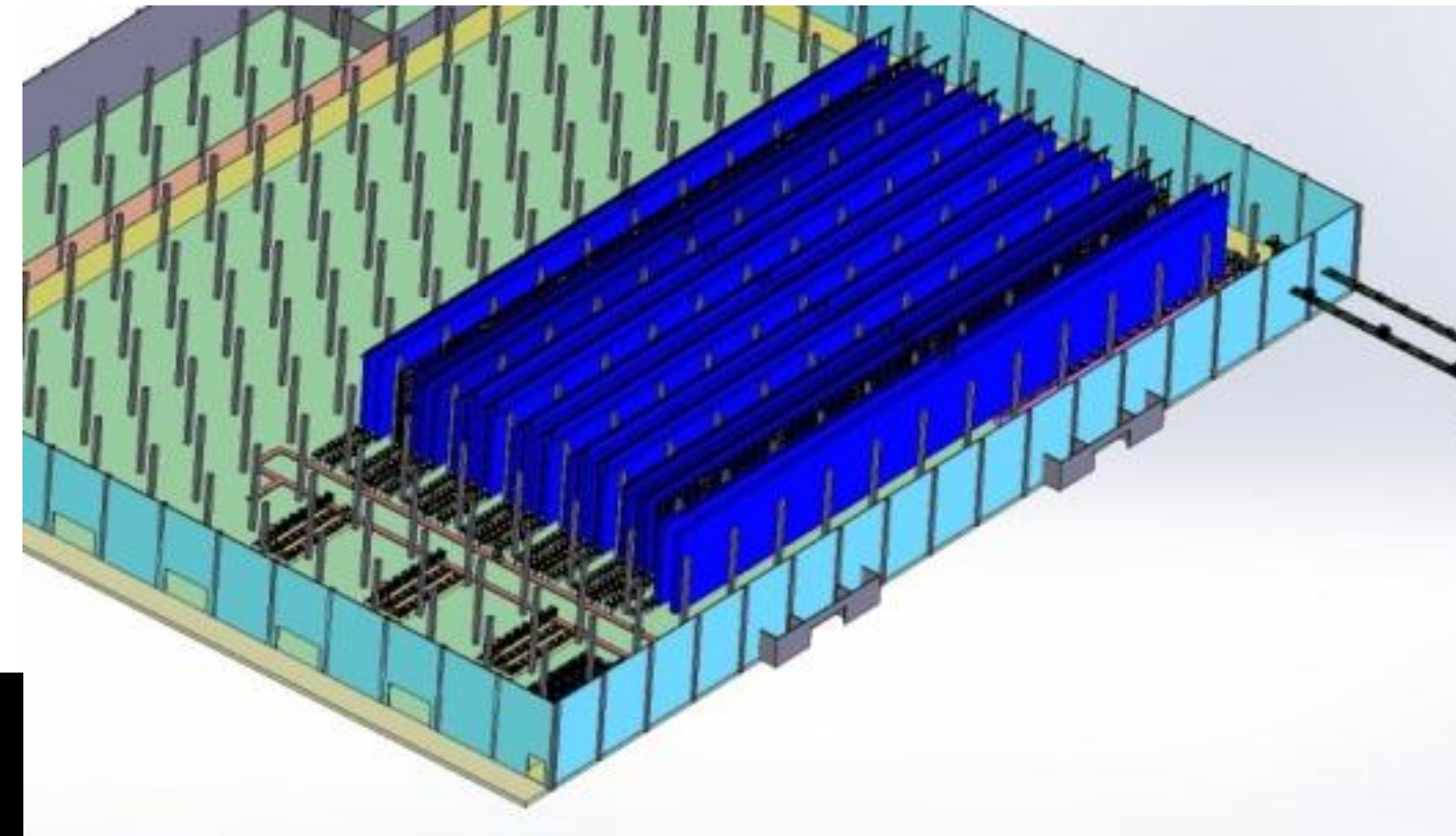


环境探测感知  
ENVIRONMENTAL DETECTION SENSING



地下管廊感知  
UNDERGROUND PIPE LINES SENSING

孟加拉智能邮政系统升级改造项目  
BANGLADESH E-POST SYSTEM PROJECT



全自动化操作，实现了仓储的无人化操作

大幅提高仓储能力，高效利用场地面积

数字化管理，实时掌控物料情况

FULL AUTOMATION TO ACHIEVE UNMANNED WAREHOUSE OPERATION

INCREASE IN STORAGE CAPACITY AND EFFICIENCY USE OF SPACE

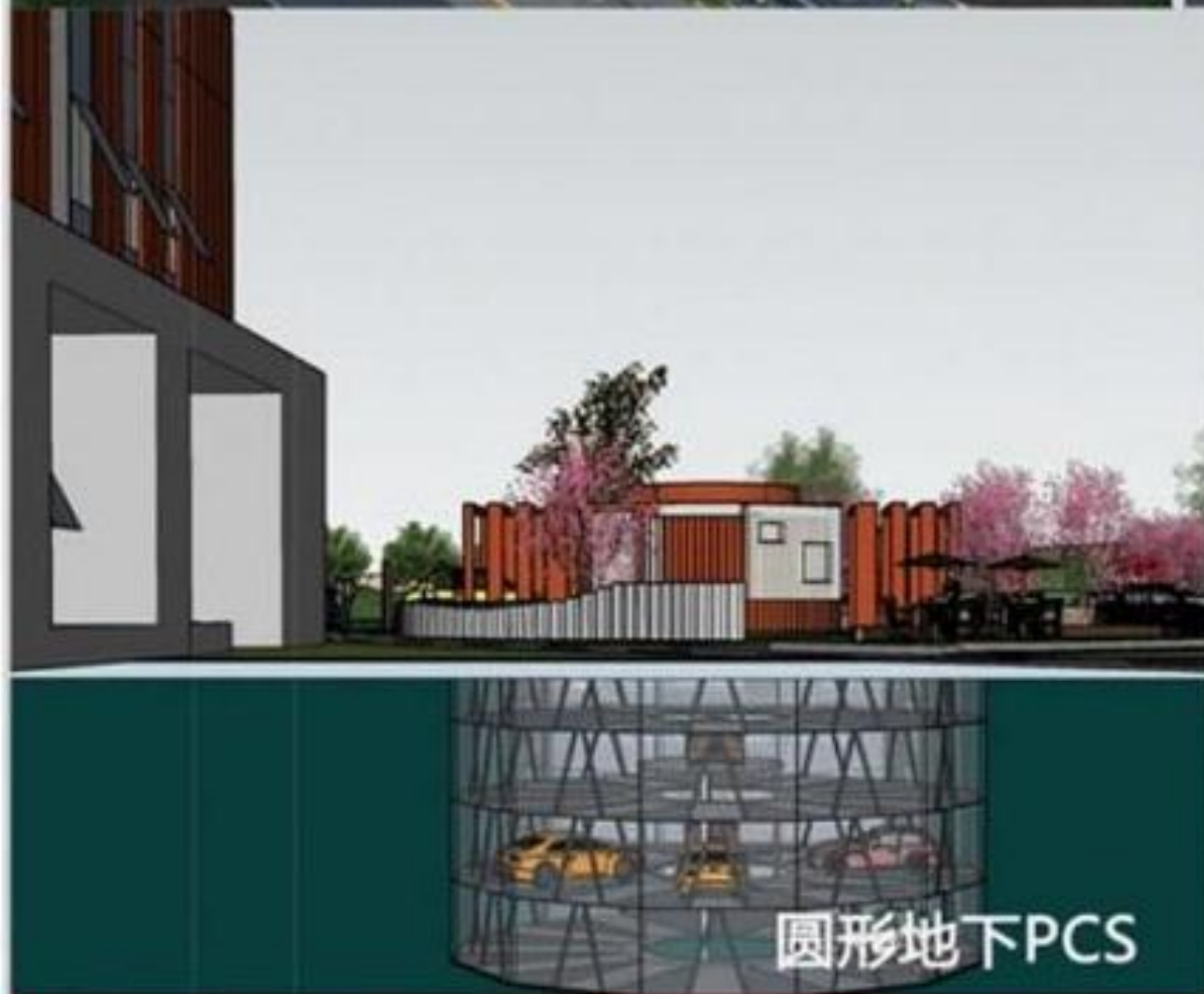
MANAGEMENT DIGITALIZATION, REAL-TIME CONTROL ON MATERIALS

# 智能停车系统

## INTELLIGENT PARKING SYSTEM



多库型选择  
MULTIPLE TYPE  
FOR SELECTION

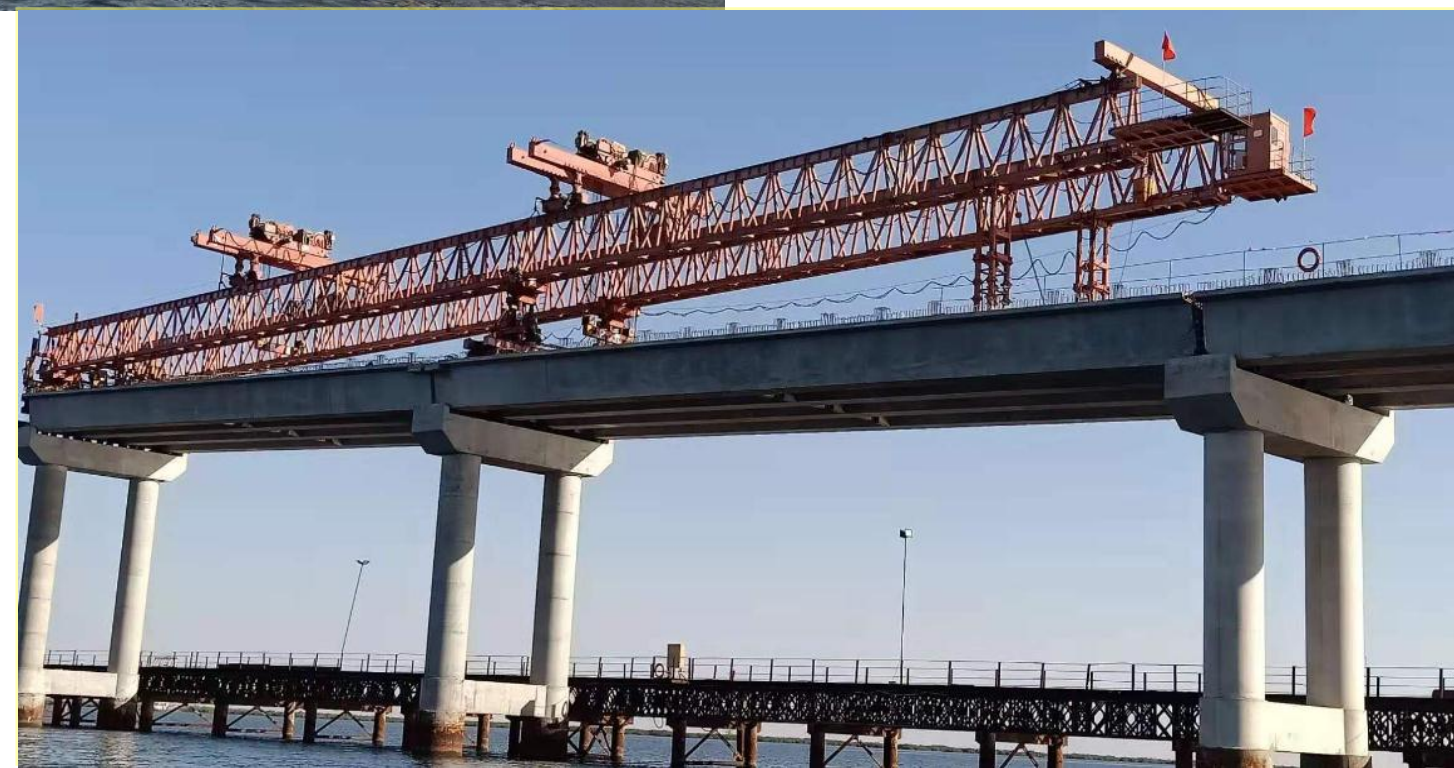
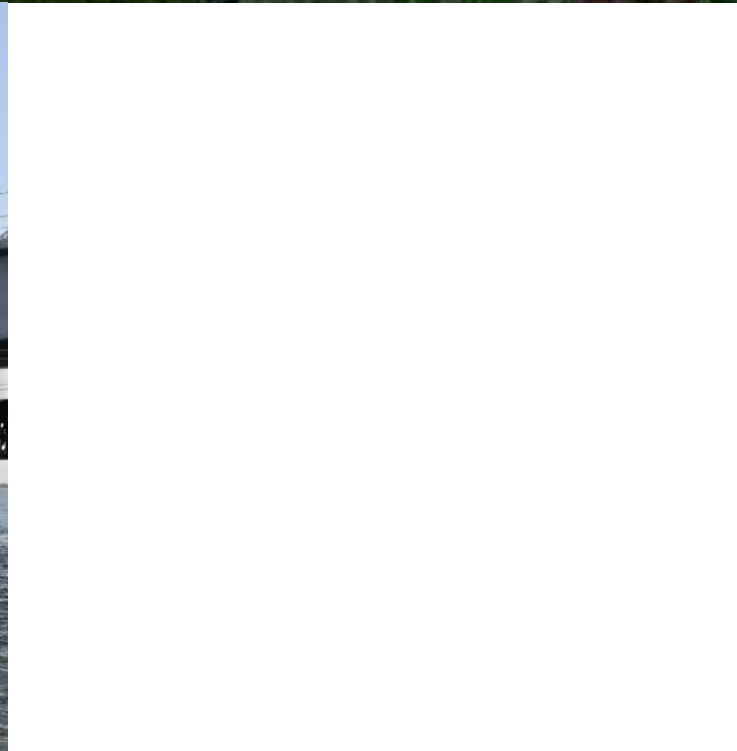




交通运输

TRANSPORTATION

塞内加尔芳久尼大桥建设项目  
SENEGAL ROAD AND BRIDGE PROJECT  
TOTAL LENGTH 3,443 METERS







喀麦隆杜阿拉港海关雷达项目  
CAMEROON DOUALA CUSTOMS RADAR  
PROJECT

交通运输

TRANSPORTATION



航道管理  
WATERWAY MANAGEMENT

打击走私  
SMUGGLING PREVENTION

海洋安全  
MARINE SECURITY

协助救援  
RESCUE & EMERGENCY SUPPORT

房建项目

HOUSING PROJECT



阿尔及利亚航天局项目  
ALGERIAN SPACE AGENCY  
OFFICE AND RESIDENTIAL  
PROJECT

宪兵培训中心  
GENDARMERIE TRAINING CENTER

房建项目

HOUSING PROJECT



房建项目

HOUSING PROJECT

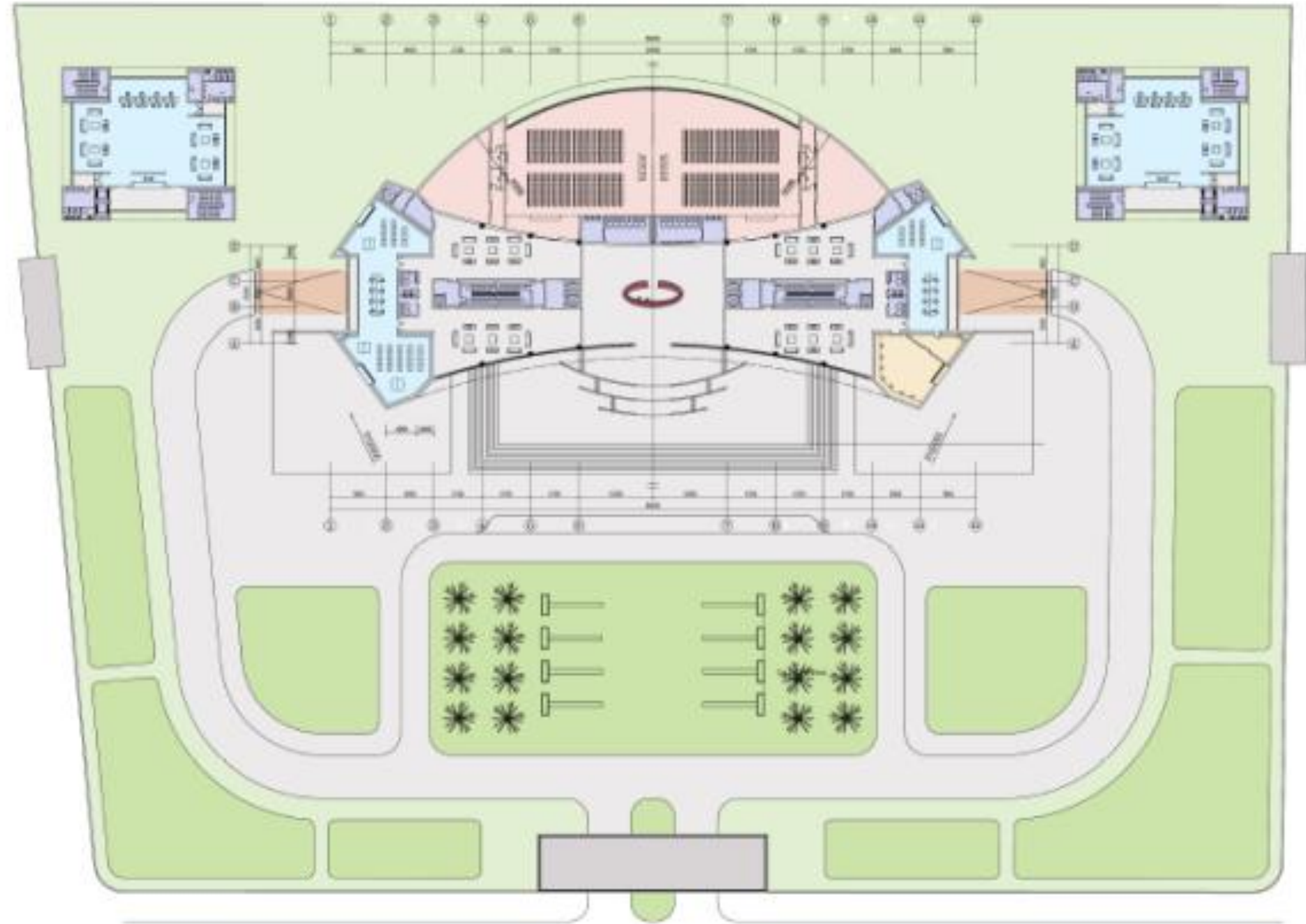
安哥拉三大奇迹项目  
ANGOLA THREE WONDERS  
PROJECTS



房建项目

HOUSING PROJECT

安哥拉外交部办公楼项目  
ANGOLA MINISTRY OF FOREIGN  
AFFAIRS BUILDING PROJECT



0层平面图  
Ground floor plan

光伏电站项目  
PHOTOVOLTAIC POWER PLANT  
PROJECT

电力项目  
POWER PROJECT



📍 Oristano Province, Italy    📅 2010    🏠 5.9MW



📍 Oristano Province, Italy    📅 2011    🏠 5.9MW



📍 Siracusa, Sicilia, Italy    📅 2011    🏠 3 MW



📍 Beerwalde, Germany    📅 2013    🏠 5.3 MW

马里电力项目  
MALI POWER PROJECT

电力项目  
POWER PROJECT



📍 60MW Heavy oil power station project 📅 2010



📍 154KV Transmission substation project 📅 2010



📍 2 × 4000KVA/154KV Substaion project 📅 2010



📍 Site surveying and mapping 📅 2010

埃塞俄比亚变压器生产线项目  
ETHIOPIA TRANSFORMER PRODUCTION LINE PROJECT



Transformer plant , outer door scene 2015



Transformer plant , indoor scene 2015



Site equipment debugging 2015



Ethiopia personnel operation training in China 2015



电力项目

POWER PROJECT



塞内加尔智能电表项目  
SENEGAL SMART METER PROJECT  
60,000 METERS AND 500 DCUS





电力项目  
POWER PROJECT

固废垃圾焚烧发电厂项目  
SOLID WASTE INCINERATION  
POWER PLANT PROJECT



- 盈利模式多样：
- 市政垃圾治理
  - 垃圾焚烧发电
  - 焚烧残渣生产建筑材料
  - 二氧化碳排放交易

- DIVERSIFIED PROFIT MODELS:
- MUNICIPAL WASTE MANAGEMENT
  - WASTE INCINERATION POWER GENERATION
  - RESIDUES FOR THE PRODUCTION OF BUILDING MATERIALS
  - CARBON EMISSIONS TRADING

# SUGAR FACTORY GENERAL PLAN 20000TCD, PREAH VIHEAR, CAMBODIA



电力项目  
POWER PROJECT

生物质发电厂  
BIOMASS POWER PLANT



BIOMASS POWER PLANT  
• BAGASSE CONSUMPTION: 480000 TONES PER YEAR  
• PRODUCTION CAPACITY: 130 MILLION KWH PER YEAR

