HollySys

TRANSPORTATION
INTELLIGENCE

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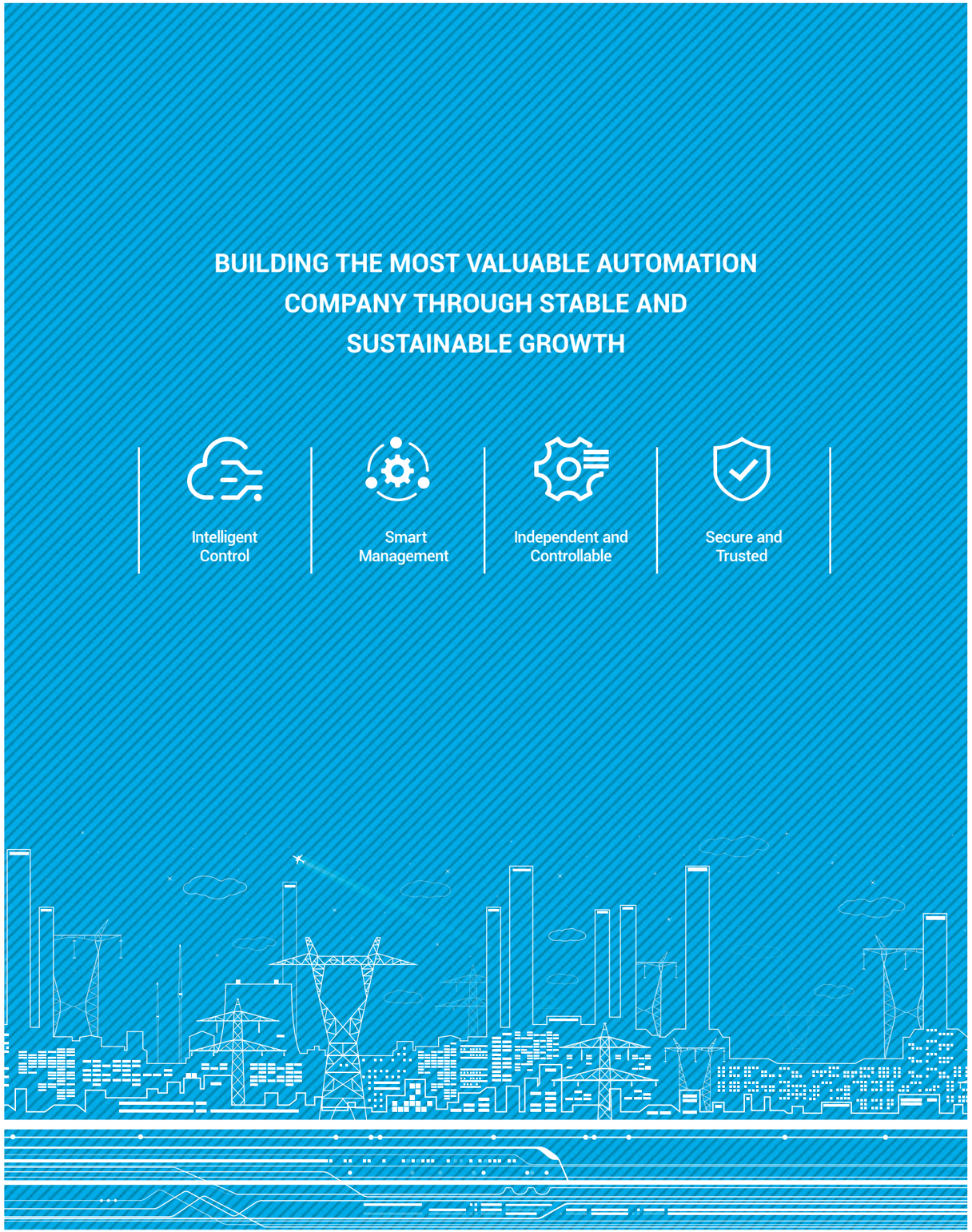
HollySys

Customers in mind with sincerity

www.hollysys.com



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ABOUT US

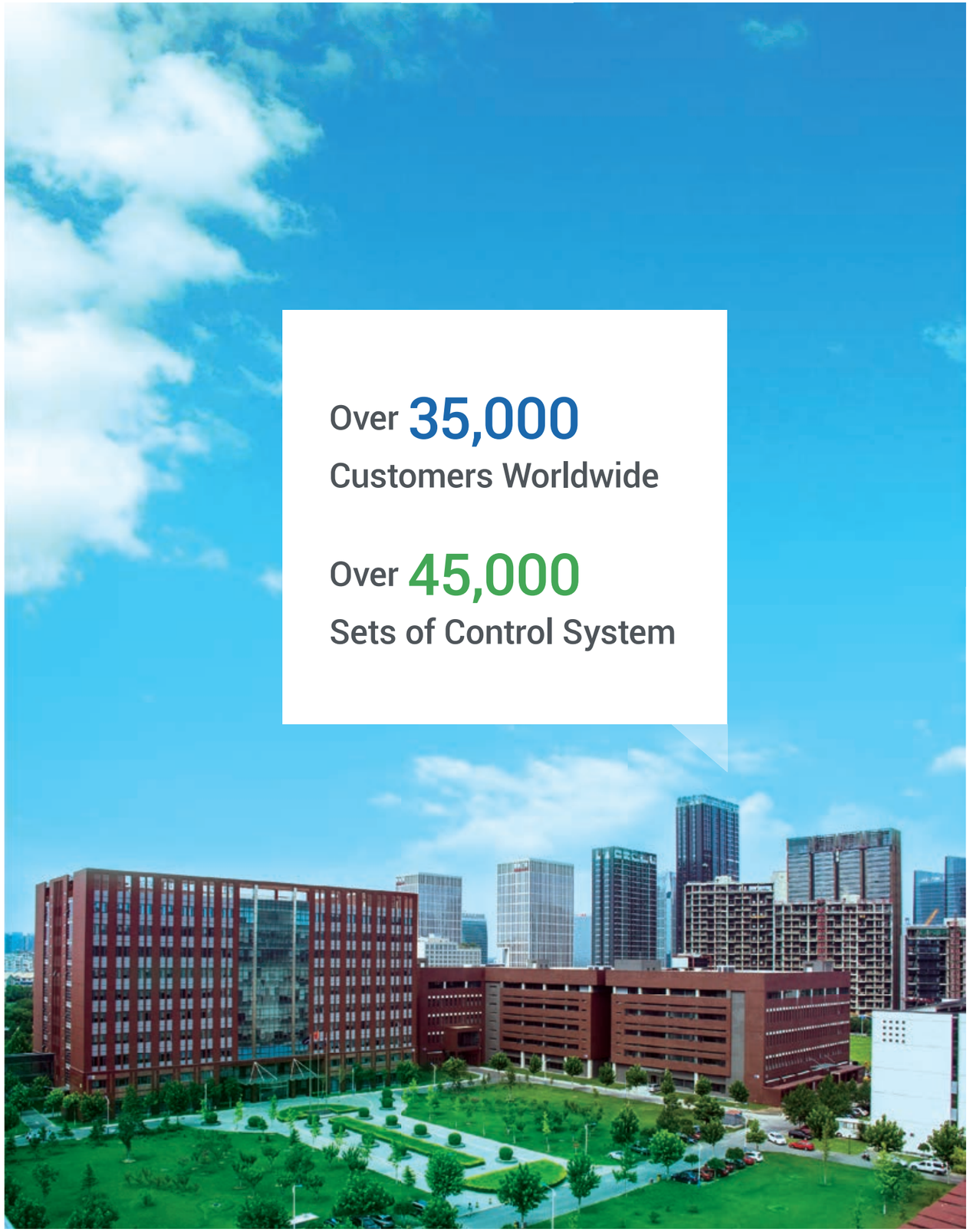
Founded in 1993, HollySys is a leading supplier of intelligence solutions in China and abroad. HollySys is headquartered in Beijing with R&D, production, and service bases in Beijing, Hangzhou, Xi'an, and Singapore, and local branches in major cities in China, as well as offices in India, Malaysia and Indonesia. HollySys business consists of industrial intelligence, transportation intelligence, and food and pharmaceutical intelligence, covering the main industries for the global economy and the people's livelihood. HollySys has always been pursuing continued innovation and R&D since the inception. By offering more reliable, secure, and intelligent products, as well as the full cycle services and customized solutions for our customers, we help our customers to improve their market competitiveness.

In transportation intelligence, HollySys, as the world provider for traffic control system solution and service, has provided solutions and products of train control, intelligent control, intelligent operation and maintenance, and vocational education for users in mainline railway, suburban railway, urban rail transit, etc. HollySys has won many awards or honors from national, provincial and national industry associations. It has presided over or participated in dozens of major scientific research projects of National Development and Reform Commission, Ministry of Science and Technology, Ministry of Industry and Information Technology, China State Railway Group Co., Ltd. (CHINA RAILWAY), National Railway Administration and Beijing Municipal Government, and formulated a number of national standards in the field of rail transit.

By the end of June 2024, 3,116 sets of HollySys' ATP have been installed on various Hexie (Harmony) and Fuxing EMU trains “running in the vast land of China”, while 1,253 sets of HollySys' ground train control system have been applied to 76 main-line railways, including Zhengzhou-Xi'an, Guangzhou-Shenzhen-Hong Kong, Beijing-Shijiazhuang-Wuhan and Beijing-Zhangjiakou high-speed railways, with a total length of more than 15,000 km.

Relying on its intelligent control technology advantages and accumulated practical experience, HollySys adheres to independent innovation, and focuses on developing the new technology for industry developments, so as to provide users with more reliable, safer and more intelligent technologies and products to satisfy the requirement of various application scenarios and to upgrade the intelligent control experience. Its performance covers 59 urban rail transit lines in 17 cities, including Beijing, Shenzhen, Guangzhou, Hong Kong, Singapore and etc.

HollySys continues to empower the industry by introducing intelligent operation & maintenance, and vocational education solutions based on its industry advantages, technology accumulation and research capability, with an aim to transform advanced industry technologies into resources for operation and maintenance and education, and to constantly explore innovative technologies in practice.



Rail Transit Signal

- → Railway Basic Signalling System Solution
- → ETCS LEVEL 1 Solution
- → ETCS LEVEL 2 Solution
- → PTC System Solution
- → Train Control System Solution for High-speed Railway (up to 250km/h)
- → Train Control System Solution for High-speed Railway (up to 350km/h)
- → Next Generation Train Control System Solution for High-Speed Railway
- → ATO Solution For High-Speed Railway
- → Signalling Solution For Industrial Railway
- → Medium and Low Traffic Capacity Signal System Solution
- → CBTC Solution
- → Train Autonomous Circumambulate System Solution

Intelligent Operation and Maintenance

- → Intelligent Ground Signal Workshop
- → Intelligent On-board Workshop
- → Intelligent Overhaul Solution

Intelligent Control

- → SCADA System Solution
- → Electromechanical Intelligent Control Solution
- → Integrated Management and Control Solution for Integrated Automation and Patrol Inspection in Intelligent Substation
- → Medium and Low Traffic Capacity Weak Current Integrated Intelligent Management and Control Solution
- → Green Intelligence Integration Management and Control Solution for Large-scale Comprehensive Transportation Hub
- → Tunnel Comprehensive Management and Control Solution
- → Traffic Incident Detection Solution
- → Airport Baggage Sorting System Solution
- → Airport Boarding Bridge System Solution
- → Passenger Security Check Passage System Solution

Vocational Education

- → Industry College
- → Training Base
- → Vocational Training

RAIL TRANSIT SIGNAL

The World Leading Provider for
Rail Signalling Solutions

RAIL TRANSIT SIGNAL

Train control system is one of the core technical equipment of high-speed railway, and HollySys has mastered core technology of train control system with full independent intellectual property rights through introduction, digestion, absorption and independent research and development, and relevant systems and products developed and designed by the company have passed the highest safety level certification (SIL4) of European authoritative institutions. The assembly of train control on-board system on Fuxing EMU and the application of train control ground system on Beijing-Zhangjiakou high-speed railway mark that the industrial application of HollySys railway signal equipment has reached the world leading level.

The computer based interlocking system, track circuit system and balise transmission system, researched and developed by HollySys for years, have been successfully used in multiple railways at home and abroad. At the same time, HollySys has launched innovation schemes on the railway control system, in order to meet diversified demands of railway transportation and to fit various operation scenarios, through which HollySys improves the operation efficiency to a greater extent and boosts the integrated innovation of new technology and rail transit industry, thus promoting the high-quality development on the railway.

→ The first 250km/h high-speed rail train control system engineering project in China: Hefei-Nanjing Line

→ One of the first two 350km/h high-speed rail train control system engineering projects in China: Zhengzhou-Xi'an Line

→ Initially developed the intercity rail ATO System, successfully applied to Foshan-Zhaoqing Intercity Line

→ As the signalling system integrator, has completed Guangzhou-Shenzhen-Hong Kong Express Rail Link (Hong Kong section) signalling project and won the MTR gold quality award

→ Research and development of ZPW-2000S track circuit system, which was applied to Chengdu-Ya'an Section Project of Sichuan-Tibet Railway

→ Initially developed 350km/h high-speed rail ATO System, successfully applied to Beijing-Zhangjiakou Line

→ ZPW-2000S jointless track circuit system is developed and applied in Guiyang Loop Line Railway (southwestern loop)

→ The first batch participating in the research and development of new generation train control system, which was successfully applied in Ruoqiang-Hetian Railway

→ Construction Of the flrst domestic signal system project of Kunming Airport Rapid Transit Line adopting CBTC system

→ GOA4 automatic unmanned (FAO) system that is independently researched and developed was applied to Chongqing Airport Rail Link project

RAIL TRANSIT SIGNAL PRODUCTS

ONBOARD ATP+ATO

SIL4

BTM

SIL4

RBC

SIL4

TSRS

SIL4

CBI

SIL4

LEU OUTDOOR

SIL4

阿特金斯
ATKINS

TCC

SIL4

TC

SIL4

LEU

SIL4

BALISE

SIL4

3316 sets of ATP

Over 50% market share in China

1253 sets of Trackside Train Control Systems applied to **76** mainline railways, with an operating mileage of more than **15000** km

Over 30% market share in China

196 sets of Computer Interlocking Systems widely applied to mainline railways and industrial and mining railways

ZPW-2000S Track Circuit products applied to **22** railways worldwide

Serving **59** metro lines across **17** cities worldwide

CTCS-2 Trackside Train Control System

CTCS-3 Trackside Train Control System

Track Circuit System

Balise

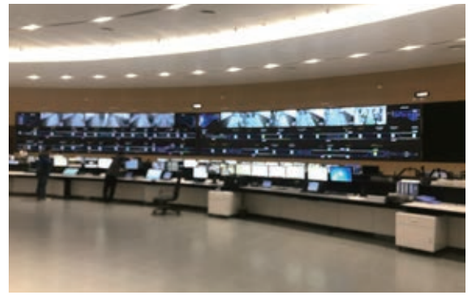
INTELLIGENT CONTROL

Professional Builder of Intelligent
Traffic Control Ecology
Provide Users with Better Solution

INTELLIGENT CONTROL

In order to meet customers' needs for better travel experience and low operating cost, HollySys has formed a complete intelligent control product system based on more than 30 years of technology accumulation and scientific research capacity, and launched an “cloud-edge-end” based architecture intelligent control solution with edge intelligence controller (EIC) as the core, which improves the level of digitalization and intelligentization of control.

→ The first Traffic Integrated Automation System(TIAS), was applied to China's first fully-automatic unmanned subway, Beijing Yan-Fang Line



→ The first domestic comprehensive monitoring system for urban rail transit based on a network level "integrated cloud platform" has been successfully applied in Hohhot Metro Lines 1 and 2

→ Implemented overall solution of intelligent urban rail to Taipingqiao Demonstrative Station of Beijing Subway Line 19 for the first time and pioneered in iBAS smart mechanical and electrical management platform based on EIC

→ Integrated automation and inspection control system for intelligent substations based on EIC, applied to Dalian Metro Line 1

→ The first ISCS platform software in China, MACS-SCADA, applied to Beijing Subway Line 13

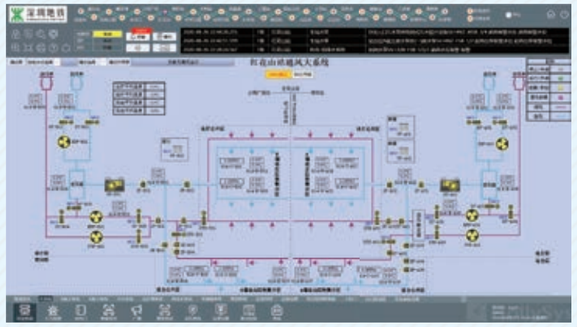
→ Completed the main control system project of Hong Kong Express Rail Link(XRL) of the Mass Transit Railway(MTR)

→ The LK series domestically produced large-scale PLC has been successfully applied to the BAS system of the entire Beijing Metro Line 14

→ Undertaking the construction of the main control system software and PLC project of the first ART (Autonomous Rail Rapid Transit) line in Sarawak, Malaysia

INTELLIGENT CONTROL PRODUCTS

SCADA SYSTEM
SIL2



TRANSIT OPERATING SYSTEM (TOS)

EDGE INTELLIGENCE CONTROLLER

EDGE INTELLIGENCE AGENT

LK SERIES LARGE SCALE PLC

LE SERIES COMPACT PLC

LX/LXS SERIES NEW GENERATION OF HIGH-END PLC

LARGE COMPUTING POWER MODULE

SCADA and Signalling System serving 59 subway lines in 17 cities worldwide

EIC and PLC serving 35+ projects in subway, highway and civil aviation

Beijing Subway

Line 13
Line 10 (Phase1)
Yizhuang Line
Changping Line (Signalling)
Line 10 (Phase2)
Line 8 (Phase2)
Line 14
Link line of Changping Line and Line 8
Yanfang Line
Line 8 (Phase3)
New Airport Express
Line 17
Line 19

Tianjin Metro

TianJin Railway Station
Tianjin West Railway Station
Yujiapu Railway Station
Line 5
Fast track of Binhai New Area(PSCADA)

Lanzhou Subway

Line 1 (Phase1)
Line 2

Qingdao Metro

Line 13

Dalian Metro

Line 3 (PSCADA)
Jinzhou-Pulandian Puwan New Area tntercity （PSCADA)

Chengdu Metro

Line 10
Line 5
Line 30 (Communication)
Ziyane Line (Communication)

Wuhan Metro

Dijiao - Hankou North (PSCADA)
Line 1 (PSCADA)
Line 4 (PSCADA)
Line 8 (PSCADA)
Line 21 (PSCADA)

Kunming Subway

Line 3
Line 5
Kunming Changshui International Airport （Signalling)

Guangzhou Metro

Line 3
Line 5
Line 4
Line 3 (North Extension)

Hohhot Metro

Line 1
Line 2

Chongqing Subway

Airport Rail Link

Shenzhen Metro

Line 1 (Phase1)
Line 1 (Continued Construction)
Line 2 (Phase1)
Line 2 (East Extension)
Line 2 (Phase 3)
Line 4 (Phase2)
Line 6
Branch Line 6
Line 8
Line 11
Line 14
Gangxia North Transportation hub

Hong Kong MTR

Guangzhou - Shenzhen - Hong Kong XRL
Hong Kong East Rail Line, Tuen Ma Line, and Tung Chung Line Extension

Singapore Metro

Singapore Thomson-East Coast Line

Malaysia Metro

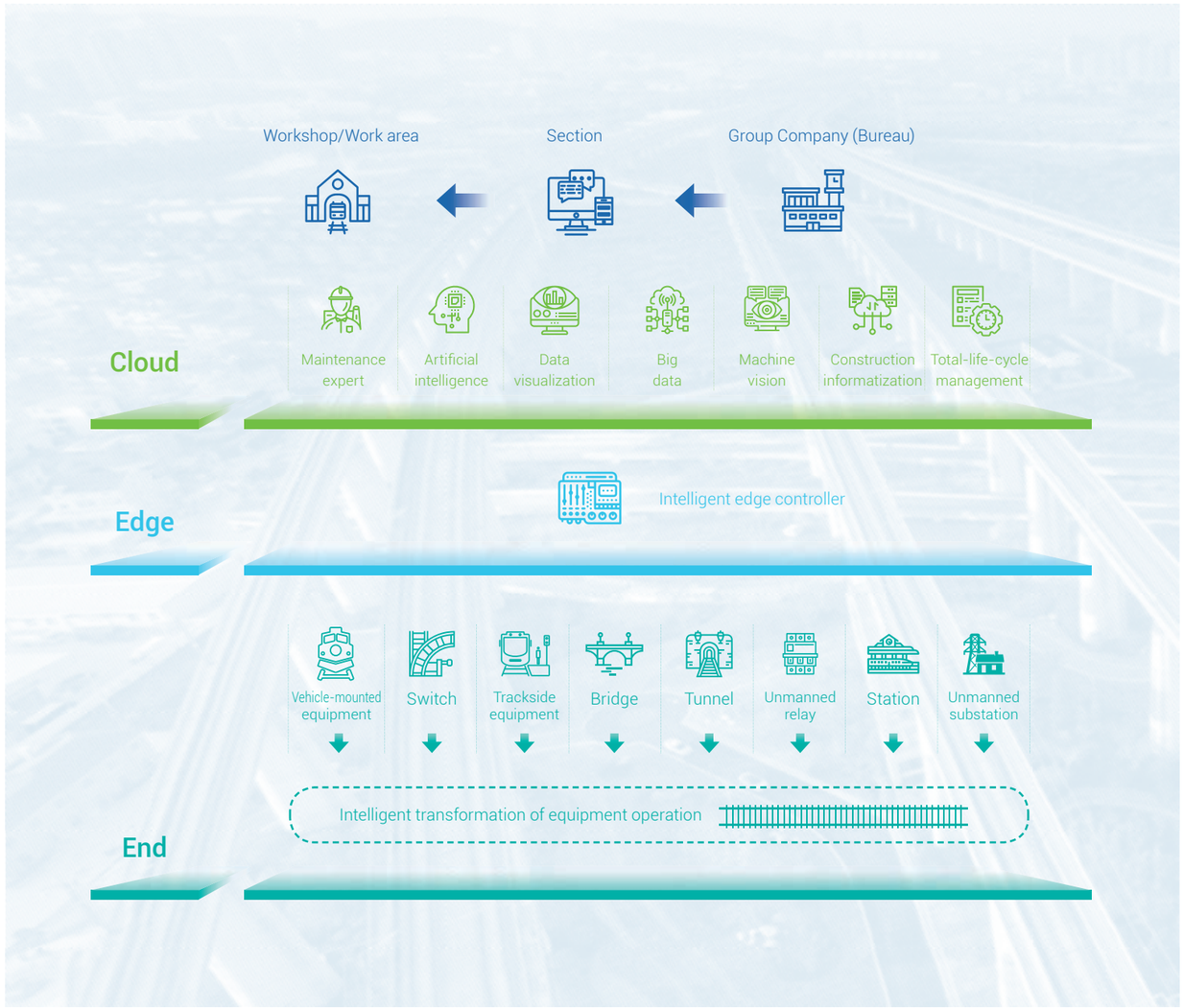
The Kuching Urban Transportation System’s Blue and Red Line in Sarawak

EIC Traffic Reference
Beijing Subway Line 19 iBAS
Intelligent Patrol Inspection System for Substation of Dalian Metro Line 1
Electromechanical Intelligent Control System of Chongqing Rapid Transit Project
Vehicle Intelligent Operation and Maintenance System of Chongqing Rapid Transit Project
Chongqing Airport Boarding Bridge System
Chongqing Airport Baggage Sorting System
Intelligent Operation and Maintenance System of Kunming Metro Line 5
Shenzhen Airport Line Smart Station System
Lanzhou Subway Line 2 Smart Station Demonstration Project
Zhejiang Gaoshuwu Tunnel Management and Control Project
Zhejiang Gaoxin Experimental Simulation Tunnel Management and Control Project
Xuegongling Tunnel Management and Control Project of Luliang South Expressway
Real-time Monitoring and Collaborative Control Project of Guizhou Huitong Highway Tunnel Electromechanical Equipment
Video Incident Detection Project of Guizhou Kaili Tunnel
Vehicle-road Collaboration Project of Yizhuang National Self-driving Demonstration Zone

PLC Traffic Reference
Integrated Supervisory Control And Data Acquisition (SCADA) for Thomson-East Coast Line and East District Line of Singapore Metro
Singapore Metro Mandai Depot Environmental Control System
Beijing Subway Line 14 (BAS)
Beijing Subway Yanfang Line (BAS)
Beijing Subway Line 17 (BAS)
Beijing Subway Line 19 (BAS)
Malaysia Metro Sarawak Line (BAS)
Tianjin Central City to Jinghai Suburban Railway (BAS)
Ningbo Metro Line 7 (BAS)
Chongqing Rail Transit Line 27 (BAS)
Guangzhou Metro Lines 1/3/5 (PSCADA)
Dalian Metro Lines 1/2/13 (PSCADA)
Wuhan Metro Lines 1/4/8 (PSCADA)
Beijing Subway Yizhuang Line, Beijing Daxing International Airport Express, Daxing LIne, Lines 4/8/10/13 (PSCADA)
Tianjin Metro Lines 5/9 (PSCADA)
Substation Monitoring System of Tianjin Station Traffic Hub Project
Shenzhen Metro Lines 1/6/14 (PSCADA)
Qingdao Metro Line 13 (PSCADA)
Lanzhou Metro Lines 1/2 (PSCADA)
Hohhot Metro Line 1 (PSCADA)
Chengdu Metro Lines 5/10/30, Chengdu Intercity Railway Line S3 (PSCADA)

Intelligent Operation and Maintenance

Create intelligent overall operation and maintenance solution integrating communication & signalling works, track maintenance and power supply based on "cloud-edge-end"



FOR reducing operating costs, improving efficiency, and ensuring operation safety, HollySys, combining its own operation and maintenance experience in industrial intelligent factory projects and rail transit industry, has built “cloud-edge-end” based solutions for the intelligent ground signal workshop,intelligent on-board workshop,and intelligent overhaul solution.The solution puts the industrial internet platform and edge computing platform as its core, while integrating advanced technologies such as cloud computing, IoT, big data, BDS, 5G and AI, etc, which makes railway operation and maintenance safer, more efficient, and more environmentally friendly, and helps the intelligent transformation of railway operation and maintenance work.

51 application cases of Railway intelligent operation and maintenance products in China

INTELLIGENT OPERATION AND MAINTENANCE PRODUCTS

Intelligent Ground Signal Workshop

Serving the signal & telecommunication service ground signal workshop responsible for the daily operation and maintenance of ground signal equipment such as train control center, temporary speed limit server, radio block center and turnout, HollySys intelligent ground signal workshop solution has realized digital and intelligent operation and maintenance, and management by intelligent means, and helped the maintenance of ground signal equipment to be safer and more efficient.

Intelligent On-board Workshop

HollySys intelligent on-board workshop solution serves the daily operation and maintenance of signal equipment, such as ATP. With technologies including multi-mode sensing, machine learning, image recognition, automatic detection equipment, and industrial Internet of Things, it has realized the data management of the full life cycle of equipment, improved the operation efficiency, and reduced the operation and maintenance cost.

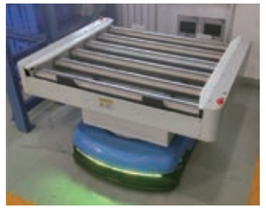
Intelligent Overhaul Solution

HollySys intelligent overhaul solution is based on the intelligent overhaul base management system, with the whole lifecycle management of equipment as the focus. By managing equipment, tasks, and data, it tracks the inspection, maintenance, repair, storage, and usage of railway signal equipment within certain section, which in turn reduce s operational and maintenance costs through breaking through the closed-loop tracking of equipment on-site by process management and data sharing.

Equipment intelligent products

Smart logistics

Top up traction AGV



Roller AGV

Drum type assembly line

Intelligent suspension conveyor line

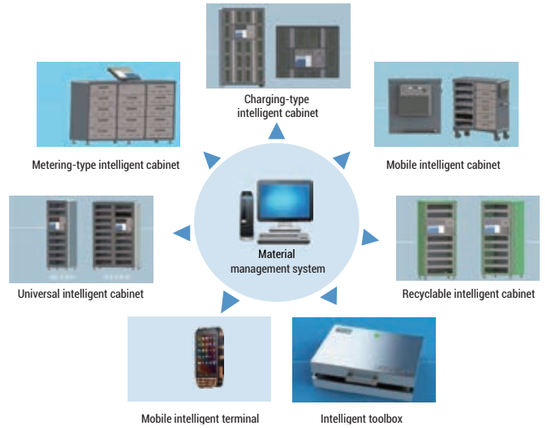
Intelligent operation

Ultrasonic cleaning machine

Spray painting robot

Wheel diameter programming

Intelligent warehousing



Elevated warehouse Compact cabinet Material cabinet

Intelligent detection

Microcomputer test table for power supply panel

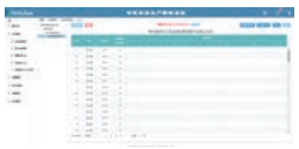
Intelligent test platform for high-voltage pulse equipment

Auxiliary monitoring system

Unmanned robots

Intelligent detection station

Full lifecycle management system



Intelligent workshop production management system

Material management system

Vocational Education

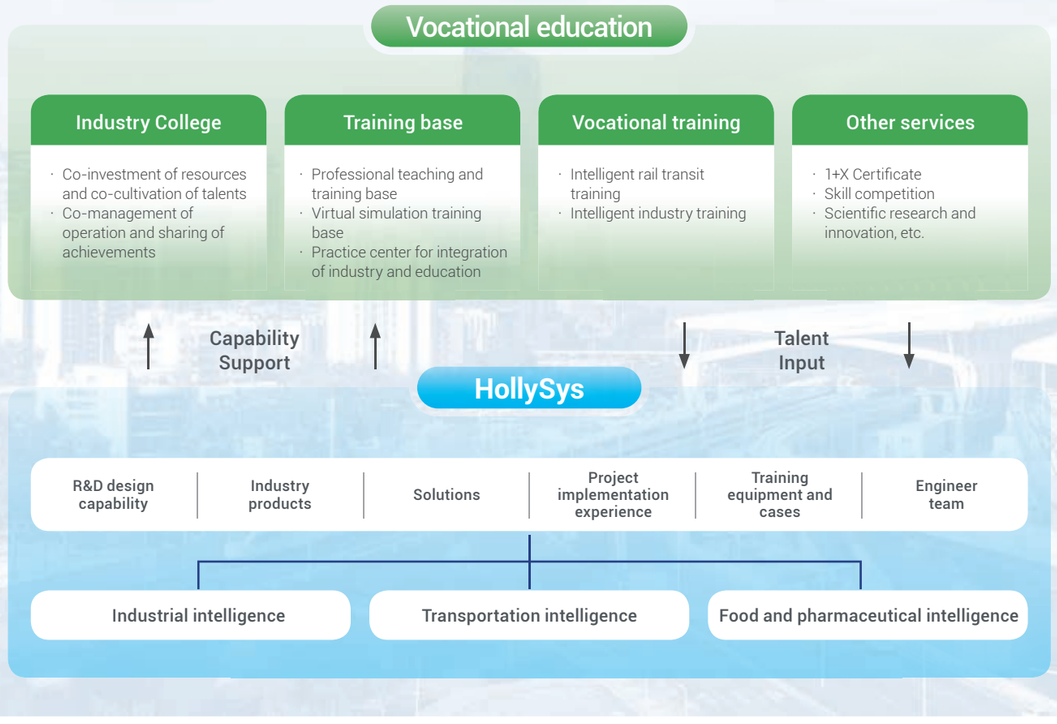
DEEPLY CULTIVATES THE INDUSTRY, EMPOWERS EDUCATION ECOLOGY

introduces advanced application experience of the industry and enterprise advantage resources into the education field, and promotes the rapid development of rail transit vocational education.

Relying on more than 30 years of industry technology and experience accumulation, HollySys introduces advanced application experience and enterprise advantage resources into the education field to respond to the national call to deepen the integration of industry and education and actively support the development of vocational education, and constructs a new business mode of rail transit vocational education.

At present, more than 20 professional colleges nationwide has established strategic cooperation with HollySys, it has built more than 30 practical training bases for railway bureaus and colleges, and provided professional skill training for more than 5,000 people.

In the near future, HollySys will focus on the fields of industry colleges construction, practical training base construction and vocational training, to explore new modes on industry-university cooperation.



TYPICAL CASES

Industry college

On December 17, 2020, Nanjing Vocational Institute of Railway Technology, the first HollySys Rail Transit Industry College, was established, marking a new level in the integration of industry and education in the field of rail transit for HollySys.

On December 25, 2020, HollySys signed joint construction of the Industry College between the school and the enterprise with Wuhan Railway Vocational College of Technology. President CHENG Shixing awarded the Distinguished Professor Certificate to the Dean of the Industry College of HollySys.

Hebei Vocational College of Rail Transportation
- → College of Intelligent Manufacturing Industry
- → Rail Transit Industry College
- → College of Field Engineers

Xi'an Railway Vocational & Technical Institute
- → Rail Transit Industry College

Wuhan Railway Vocational College of Technology
- → Rail Transit Industry College

Nanjing Vocational Institute of Railway Technology
- → Rail Transit Industry College

Training base

Performance of colleges

- → Training Center of Xi'an Railway Vocational & Technical Institute
- → Hebei Rail Transport Signal Training Center
- → Training Center of Luoyang Railway Information Engineering School
- → Training Center of Liuzhou Railway Vocational Technical College
- → Signal Training Center of Xinjiang Railway Vocational and Technical College
- → Signal Training Center of Nanjing Vocational Institute of Railway Technology
- → RSignal Training Center of Jilin Railway Technology College

Achievements of railway bureau

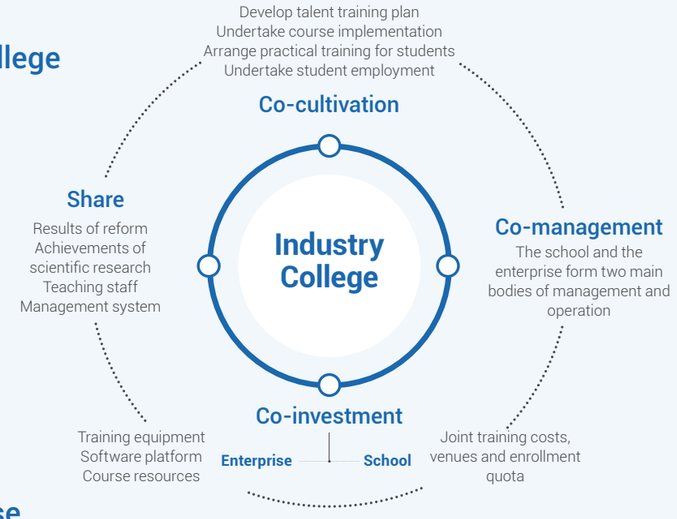
- → Wuhan High-speed Railway Vocational Skill Training Section
- → Fuzhou Training Base
- → Kunming On-board Training Base
- → Yangang Training Section
- → Urumqi Training Base
- → Training Base of Taiyuan Bureau
- → Huizhou Simulation Base
- → Zhengzhou Yellow River South Bank Training Base
- → Xi'an North Training Base
- → Dujiangyan Training Base
- → Dazhou Training Base
- → Chongqing Training Base
- → Zibo Training Base

Vocational training

On March 7, 2023, the "Factory Training Course for Train Control Equipment Maintenance Personnel" jointly held with China Railway Beijing Group Co., Ltd. was grandly started in Beijing Base of HollySys.

VOCATIONAL EDUCATION PRODUCTS AND SERVICES

Industry College



Training base

Construction of rail transit training base

Signal system comprehensive training base

Comprehensive training base for vehicle, electromechanical and operation

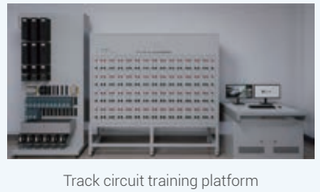
Construction of virtual simulation training base

Ground signal equipment virtual simulation training system

Virtual simulation training system for on-board equipment

Various types of practical training products

On-board practical training system



Track circuit training platform

Various basic signal training platforms

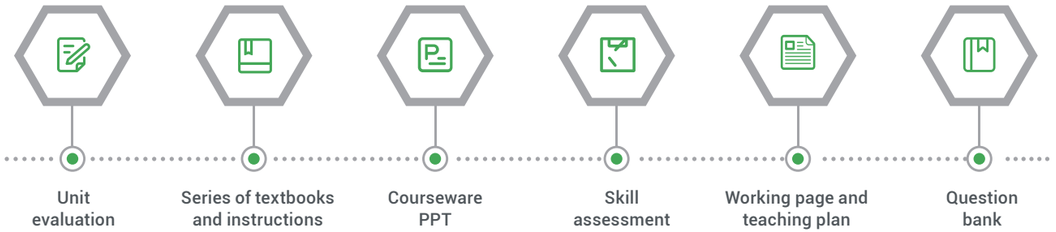
Vocational training

Curriculum system

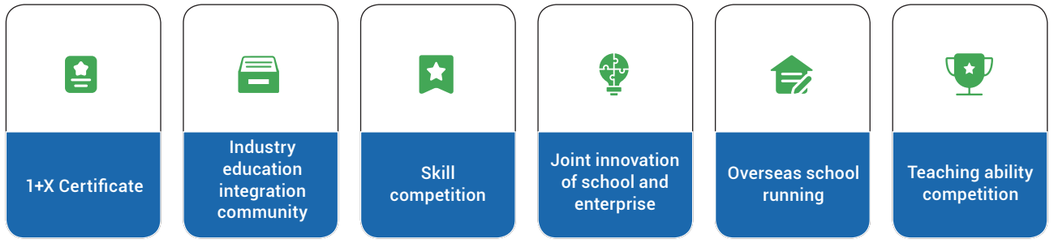
Post adaptability training

Safety knowledge training	Seasonal training	New drawing training	Basic skill drill	New technology, new equipment New regulations and new processes	Emergency treatment for abnormal situation	Technical and business training

Exclusive teaching resources



Other Services



1+X Certificate

Industry Education Integration Community of National Intelligent Rail Transit Automation

National Railway Industry Vocational Skills Competition

COMPREHENSIVE STRENGTH

PRODUCTION & MANUFACTURING

HollySys has set up professional R&D, test and production teams, established scientific and systematic management systems, all systems and products have passed safety authentications by third party authorities. HollySys also established rail transit simulation test center to simulate various scenes of train in the process of actual operations through simulation system so as to verify and confirm each sub-system and integrated system to realize the correctness and effectiveness of verified data as well as stability and safety of verified system.

3

3 R&D Centers in China:
Xi'an, Beijing and Hangzhou

155

Owning 155 authorized patents
and 123 software copyrights

1500

More than 1500 R&D engineers
and continue growing

10%

10% of annual revenue
invested on R&D

TEST & CERTIFICATION

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- ISO/IEC 27001
- ISO/IEC 20000
- ISO/IEC 17025
- ISO/TS 22163
- CMMI 3
- IRIS

COMPREHENSIVE EXPERIMENTAL CENTER

Comprehensive Experimental Center is a large-scale comprehensive rail transit laboratory established independently by HollySys.The experimental center is Beijing Key Laboratory of high-speed railway Signalling system. With a net area of about 4200m^2 square meters, the experimental center consists of laboratories of hardware environment, R&D test, and engineering test environment.

The business of the multifunctional experimental center covers national, intercity, and urban railway, as well as local dedicated railway lines, including verification and validation (V&V) of signalling, integrated supervision and control, information security, intelligence operation and maintenance, practical training system and other related products. Combining software, hardware and system integration, it provides technical and environmental support for the whole life cycle of products and the whole process quality assurance of engineering.

HollySys Reliability Test Center

Stepping Cyclic Damp Heat Test

Device Screening and Aging Test

Temperature Shock and Temperature Variation Test

Electromagnetic Compatibility Test

Electric Vibration Test

PRODUCTION & MANUFACTURING

HollySys was included in China's first batch of intelligent manufacturing pilot model enterprises (intelligent control system) and enterprises in the Recommended Catalog of Intelligent Manufacturing System Solution Providers.
HollySys's automated product factory has achieved lean, automatic,and information-based management, and its production capacity has reached an advanced level in the automation field.

Panoramic view of intelligent manufacturing workshop

Flexible assembly and testing line

Internal automatic logistics system

Assembly line

Automatic SMT system

Intelligent warehousing management system

SERVICES

HollySys provides not only products and systems but also engineering services such as project design, electrical installation and field debugging, as well as whole life cycle operation and maintenance and optimization services with tens of R&D, production or service bases worldwide.

CUSTOMERS IN MIND
WITH SINCERITY

In Time

7*24h hotline
Offer on-site technical support

Professional

Rich service experience
Professional engineering expert team

Standard

Three-level service response
Impeccable service process

Overseas Expansion

With technology advantages and practice experience in rail signalling, HollySys can provide global users with top-class, safety-first control products, solutions and engineering services. The extensive applicability of HollySys control solutions contributes to the traffic safety and intelligence at home and abroad. Guided by technological innovation, HollySys brings people travel convenience, which expands the influence of China's high-speed railway.

→ Undertaking the construction of the main control system software and PLC project of the first ART (Autonomous Rail Rapid Transit) line in Sarawak, Malaysia

→ MCS for Hong Kong East Rail Line, Tuen Ma Line, and Tung Chung Line Extension

→ Turkish National Commuter Railway ETCS Level 2 On-board System Supply Project

→ As a system integrator, the company adopted international standards to undertake the construction of signal system and main control system engineering and maintenance service of Hong Kong Section of Guangzhou-Shenzhen-Hong Kong High-speed Railway, and won the MTR Gold Award for Quality

→ Undertook multiple overseas ISCS projects, including SCADA project of Singapore Thomson-East Coast Line

→ PTC system certified by U. S. Federal Railroad Agency (FRA), and was adopted in U. S. LVRR Line

→ ETCS-2 train control system for PRASA's KwaZulu-Natal service region in South Africa

Sustainable Development

FOCUS ON CORE TECHNOLOGIES ADHERE TO INDEPENDENT INNOVATION

HollySys will keep concentrating on core technologies and adhere to innovate independently , striving to provide users with more reliable, safer and more efficient products and services, fulfilling original mission of its own, to ensure safety of public travelling and achieving intelligence for excellence.

1999

2oo3 fault-tolerant computer interlocking was developed, kicking off the traffic automation business

2001

The first ISCS platform software MACS-SCADA in China for Beijing Subway Line 13

2005

Standing among the first suppliers of onboard train control system for EMUs in China

2007

ATP, TCC and LEU were applied in the 6th major speedup of China Railways

2008

The first CTCS-2 train control system in China for Hefei-Nanjing PDL

2010

The first CTCS-3 train control system in China for Zhengzhou-Xi' an PDL

2012

The signalling system and MCS for Guangzhou-Shenzhen-Hong Kong XRL (Hong Kong section)

2014

SCADA for Singapore MRT Thomson East-Coast Line

2016

Intercity rail CTCS2+ATO train control system for Foshan-Zhaoqing Intercity Line

2017

TIAS for the first fully-automated subway line in China: Beijing Subway Yanfang Line

2018

Track circuit for HSR for the first time: Southwest section of Guiyang Ring Railway

2019

CTCS-3 train control system for the first intelligent HSR in the world: Beijing–Zhangjiakou HSR (Winter Olympic Line)

2021

The first CBTC Airport Rapid Transit Line in China: Kunming Airport Line

2022

- New generation train control system for the world's first railway loop line in desert: Hotan-Ruoqiang Railway
- FAO signalling system for GoA4 metro line: Chongqing Airport Rapid Transit Line
- EIC for Beijing Metro Line 19 (iBAS)

2023

- ETCS-2 train control system for PRASA's KwaZulu-Natal service region in South Africa
- ETCS-2 ATP for Turkish National Commuter Railway
- MCS software and PLC for the first ART line in Sarawak, Malaysia: the Kuching Urban Transportation System' s Blue and Red Line

2024

MCS for Hong Kong East Rail Line, Tuen Ma Line, and Tung Chung Line Extension