

[Hong Kong
Σ (ngineers week)
香港工程師週] 2023

OUR FUTURE
WE ENGINEER

未來·一同創造

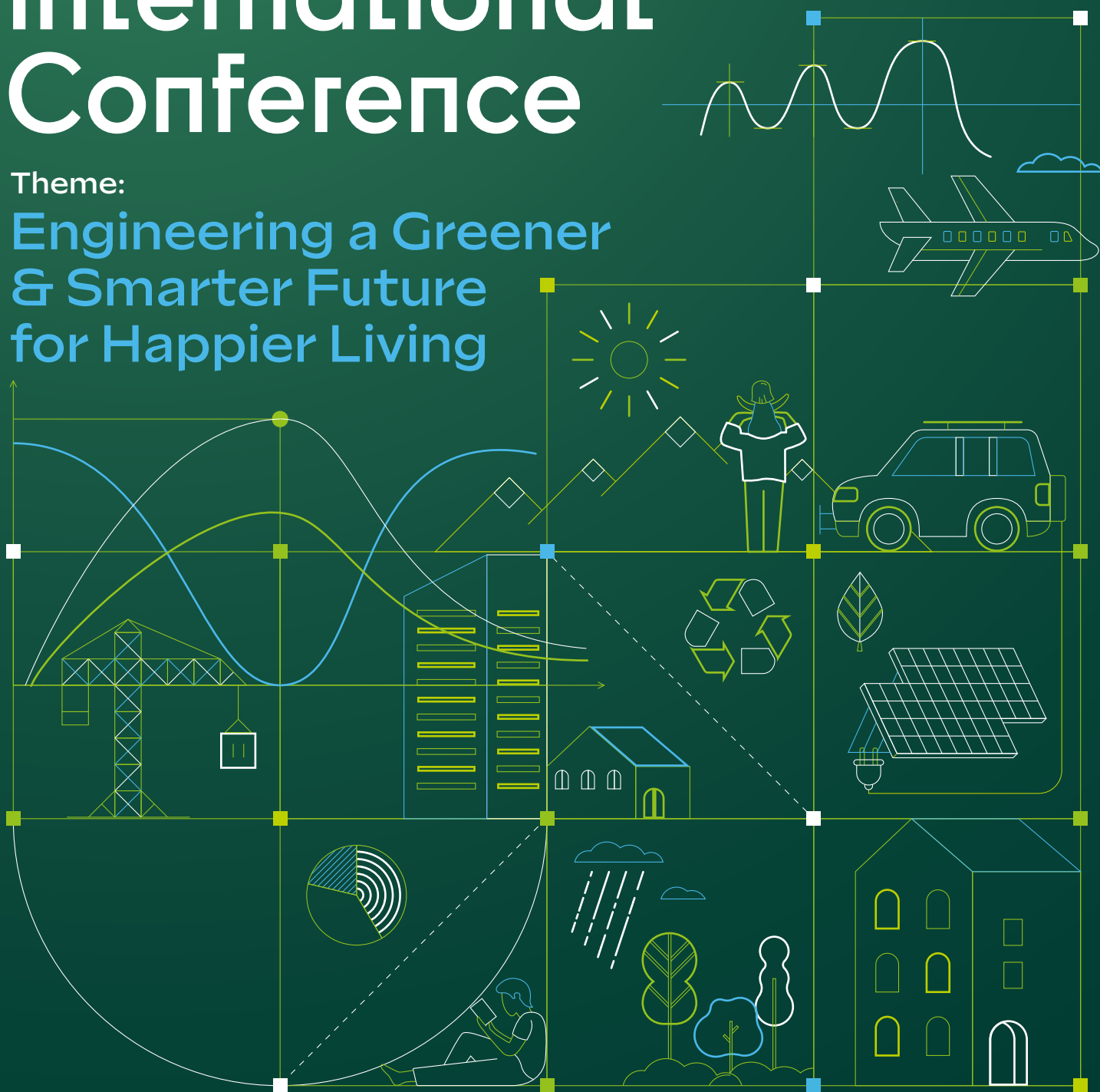
FUTURE



The HKIE International Conference

Theme:

Engineering a Greener
& Smarter Future
for Happier Living



02 Project Design
項目設計

01 Strategic Planning
項目規劃

03 Project Construction
項目施工

04 Management and Operation
管理運營

05 Investment and Financing
投融資


提供基礎設施 一體化服務

CHEC: FULL SERVICE PROVISION

Since CHEC was founded in Hong Kong over the 41 years, our team of over 1200 dedicated workers have undertaken more than 340 diversified projects ranging from civil and marine engineering, housing construction, foundation works and green initiatives – united under the common goal to create a more prosperous Hong Kong and deeply committed to building infrastructure to improve the lives of residents in Hong Kong. China Harbor's business scope covers all links such as project planning, feasibility study, investment and financing, design, construction, maintenance, and operation. Especially by virtue of its advantages in construction, harbor engineering, road drainage, site formation, etc., it can flexibly meet the ever-changing needs of Hong Kong's development, provide Hong Kong's customers with diversified service models, and consistently fulfill its service commitments.

中國港灣扎根香港41年來，員工增至1,200多名，秉持建設為民的理念和以推動香港的繁榮發展為目標，承接了土木工程、海事、房建、地基及環保等不同类型的項目約340個。中國港灣的業務範疇涵蓋項目規劃、可行性研究、投融資、設計、施工、維護、運營等所有環節。特別是憑藉在建築、海港工程、道路渠務、地盤平整等方面的實力優勢，能靈活配合香港發展不斷變化的需求，為香港客戶提供多元化服務模式，始終如一地實踐服務承諾。

Beyond Construction.....

一座從海洋中誕生的城市

COLOMBO PORT CITY, A CITY BORN FROM THE SEA

The Colombo Port City, which was developed and designed by CHEC, is a brand new urban development built and as offshore Special Economic Zone with an initial investment of US\$1.4Bn and an expected US\$15Bn overall investment when completed. Spanning 269 ha, it is a sea reclamation project next to existing Colombo CBD. When the city is fully developed by 2040, Port City Colombo is estimated to have some 6.3Mn m2 of build up space and city population of 273,000.

中國港灣負責開發、設計建成的科倫坡港口城是一個全新的城市開發項目，作為離岸經濟特區而建，初始投資為14億美元，預計完成全部開發後的總投資為150億美元。這是一個占地269公頃的填海工程，毗鄰現有的可倫坡CBD。到2040年，當這座城市全面開發後，科倫坡港口城估計將擁有約630萬平方米的建築空間和273,000的城市人口。



273,000
預計城市人口
Expected City Population
of 273,000

178 公頃
可開發的清晰地權
178 Ha Clean Title Land
for Development

91 公頃
公共空間
91 Ha of Public
Spaces

269 公頃
項目填海造地面積
Project reclamation area

150 億
美金投資
USD 15 Billion Investment

5 個
特色經濟區
5 Distinct Precincts

143,000 個
工作機會
Creating 143,000
New Jobs

6300 萬 m²
總建築面積
63 Million m² Total Build
Area (GFA)

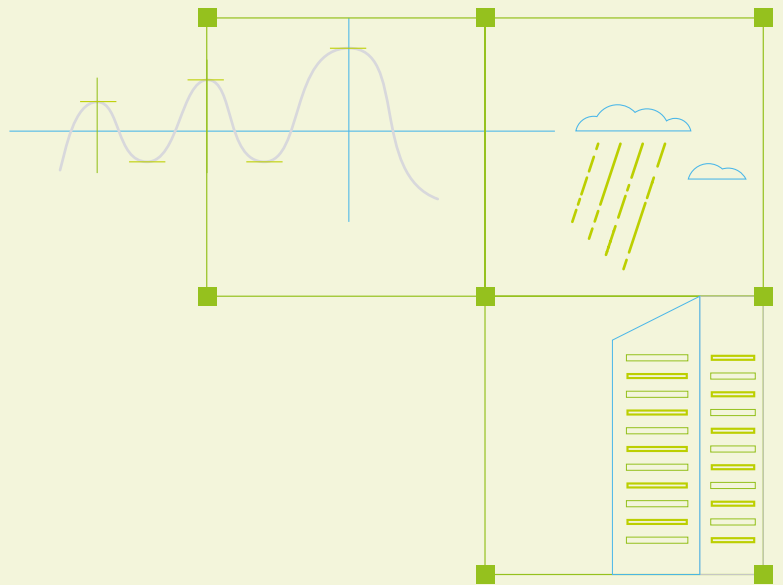
40 期
最長免稅期
Maximum 40-year
tax holiday

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Ir Aaron BOK Kwok-ming
President
The Hong Kong Institution of Engineers



On behalf of The Hong Kong Institution of Engineers (HKIE), I am honoured and delighted to welcome you to the HKIE International Conference.

Today's conference takes the theme "Engineering a Greener and Smarter Future for Happier Living" - a very timely topic for us all as our beloved home city bounces back in full swing to post-pandemic normalcy, and our engineering community remains as committed as ever to design and engineer for the future of Hong Kong's development.

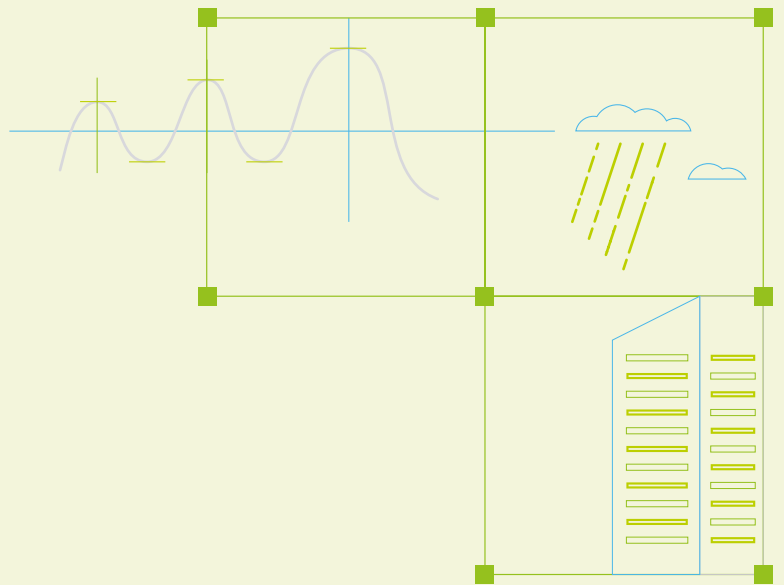
Today's conference will feature four subthemes: Environment and Energy; Logistics and Mobility; Health and Living; and Building and Construction. These four themes are all closely intertwined with the everyday lives and well-being of our city as well as with the people living in it. I am enthusiastic to hear our distinguished speakers from the academia, industry, utilities and public services as they share with us their latest breakthroughs in engineering technology and explain the enormous contribution engineers make to enrich people's lives and help shape Hong Kong into a city like no other, for us all and for our next generation.

The HKIE International Conference is part of our first ever Hong Kong Engineers Week where we will explore and promote the dynamism of the engineering profession in a series of high-profile events. The Hong Kong Engineers Week also features competitions, a carnival, exhibitions, and a Fundraising Cycling and Run.

These events wouldn't have been possible without the generous support of our sponsors and most importantly, our participants. As President of the HKIE, thank you to each and every one of you for joining us. Let's begin our journey of discovery and unveil the astonishing achievements of Hong Kong's engineering industry together.



Ir LAU Chun-kit, Ricky, JP
Permanent Secretary for Development (Works)
The Development Bureau



My warmest thanks and sincere congratulations to the Hong Kong Institution of Engineers (HKIE) for hosting this international conference as one of the events in its Hong Kong Engineers Week 2023.

With centuries of proud tradition, engineering is a profession with innovation and technology as its bread and butter. Yet going well beyond creators of constructions and machinery, engineers are now playing multiple roles – they are also integrators, transforming various expertise into solutions; adventurers, turning tough challenges into opportunities; and pioneers, making bold advances to break new ground.

The theme of this conference, “Engineering a Greener & Smarter Future for Happier Living” is a most timely topic for contemporary engineers to explore. Ridding out of the pandemic, it is opportune now for us to pull together and collaborate in making our living environment greener, smarter and happier. We have the collective commitment of creating a livable, well-connected and sustainable community for everyone’s enjoyment in our city.

I would take this opportunity to express our deep appreciation of you all, engineers and construction professionals, for your distinguished achievements over the decades. We are grateful to you not just for bringing us the many marvelous buildings and infrastructures, but also for your devotion to rising to the occasion to provide isolation and treatment facilities from scratch during the pandemic, embrace innovation, adopt new construction methods to meet the changing needs of the community and looking ahead, establishing infrastructure supporting economic development. Together we have laid down a solid foundation for the sector to thrive and to nurture its next generation, the cornerstone of our shared mission to build for the future of Hong Kong. And I would further thank you all for joining this inspiring and visionary conference, kick-starting our journey to take our contributions for the betterment of Hong Kong to a new horizon.

Agenda

9:00 am Welcome speech by the President of The Hong Kong Institution of Engineers

9:10 am Speech by the Guest of Honour

9:20 am Keynote speech

Sub-theme 1: Smart Environment & Energy

9:40 am The enhancement of the environmental impact assessment process and how it would make Hong Kong smarter and greener

10:00 am Towngas' energy transition journey towards green

10:20 am Sustainable transport operation in Greater Bay Area

10:40 am Q&A

10:55 am Break

Sub-theme 2: Smart Logistics & Mobility

11:15 am Building a green land transport ecosystem for Singapore

11:35 am The Airport City Link – Hong Kong's first public passenger transportation system using autonomous vehicles

11:55 am Smart mobility for a high-quality liveable Hong Kong

12:15 pm Q&A

12:30 pm Lunch & The HKIE Grand Award Presentation

Sub-theme 3: Smart Health & Living

2:30 pm Artificial intelligence for assistant thyroid nodule diagnosis in the era of precision medicine

2:50 pm Smart devices for smart health and living

3:10 pm Deep tech research and translation for precision health

3:30 pm Q&A

3:45 pm Break

Sub-theme 4: Smart Building & Construction

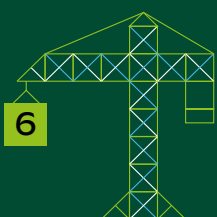
4:05 pm Application of smart construction technology in large-scale infrastructure projects – exploration and innovation of smart building and construction technology for large-scale cross-sea channel project immersed tube tunnel

4:25 pm Embracing ESG into smart construction – smart community

4:45 pm Building a smart and green Hong Kong – from vision to realisation

5:05 pm Q&A

5:20 pm Closing remarks by the Subcommittee Chair of the HKIE International Conference





Mr Alex WONG

Deputy CEO

Huawei International Co. Limited

Mr Alex Wong joined Huawei as a solution sales professional where he led the network solution sales team for Hong Kong and Macau, offering network design and consultancy services to fixed and mobile carriers in the region. He successfully built a team with strong business sensitivity and technical capability, enabling clients of the carrier network to effectively employ such technologies as Wired/Wireless Connection, Internet of Things and Big Data Analysis etc. in their business operations.

Most recently, Mr Wong has been actively promoting ICT development in Hong Kong. He has spoken at events organised by tertiary institutions, industry associations and public organisations, sharing his views on global trends as well as offering insight into the latest network and computing technologies in 5G, Cloud Computing and Cyber Security. He is also currently an executive committee member of the Communications Association of Hong Kong.

Mr Wong obtained a BEng (Industrial Engineering) and a MSc (E-Commerce and Internet Computing) from the University of Hong Kong. He also received a MSc (Communications and Signal Processing) from Imperial College London.

**Sub-theme 1:
Smart Environment & Energy**

The Enhancement of the Environmental Impact Assessment Process and How It Would Make Hong Kong Smarter and Greener



Dr CHUI Ho Kwong, Samuel, JP
Acting Director of Environmental Protection
Environmental Protection Department

Dr Samuel Chui is an environmental engineer and a Fellow of the Hong Kong Institute of Engineers who has over 30 years of experience in environmental engineering.

Currently the Acting Director of Environmental Protection, his work involves sewerage infrastructure planning, enforcing environmental legislations, overseeing the Shing Mun River Bioremediation Project, the Harbour Area Sewage Treatment Scheme, O-PARK1, O-PARK2, the Integrated Waste Management Facilities, and a review of the Environmental Impact Assessment Process. Dr Chui is an expert in wastewater treatment and has published around 30 international journal papers that include over 1,400 citations. His publications have won 5 international awards including the Best PhD Thesis Award at the University of Hong Kong. During the COVID-19 pandemic, he used his expertise to launch a territory-wide sewage surveillance programme that successfully identified over 26,000 COVID cases which helped to brake the chain of transmission.

Previously, Dr Chui taught for 20 years at the Hong Kong University of Science and Technology, sharing his expertise in a Master of Science course "Wastewater Treatment and Reuse".

**Sub-theme 1:
Smart Environment & Energy**

*Towngas' Energy Transition Journey
towards Green*



Ir Edmond FONG

*General Manager - Transmission Operation
Hong Kong and China Gas Company Limited*

Ir Edmond Fong is General Manager – Transmission Operation of the Hong Kong and China Gas Company Limited where he oversees the company's town gas transmission infrastructure in Hong Kong.

With over 30 years of experience in the city's gas and energy sectors, his expertise lies in management of high pressure gas transmission and includes design, planning, construction and asset management, as well as operation and maintenance. He is a Registered Professional Engineer in Gas and Mechanical disciplines and a Fellow of the Hong Kong Institution of Engineers (HKIE).

Ir Fong formerly served as Chairman of the Gas & Energy Division and was a Past Discipline Representative in Gas with the HKIE.

**Sub-theme 1:
Smart Environment & Energy**

***Sustainable Transport Operation
in Greater Bay Area***



Mr Gary LEUNG

Director
Shenzhen Bus Group Co., Ltd.

Assistant Director (Strategic Planning)
The Kowloon Motor Bus Co. (1933) Ltd.

Mr Gary Leung is Director of Shenzhen Bus Group Co., Ltd., a post he has held since 2021. The bus operator is the first in China and in the world to operate an all-electric bus fleet since 2017. Mr Leung is also Assistant Director (Strategic Planning) of The Kowloon Motor Bus Co. (1933) Ltd. (KMB), the largest franchised bus operator in Hong Kong.

Mr Leung joined KMB in 2013 as a full-time Bus Captain. He subsequently transferred to the company's back office to work on bus network planning and restructuring. Mr Leung also served as the project managers of various special projects, including the KMB Monthly Pass introduced in 2018. He currently oversees the transition of KMB's fleet to new energy buses as well as business development outside Hong Kong for the KMB Group.

Prior to joining KMB and Shenzhen Bus Group, Mr Leung served as Manager of the Valuation and Modelling Section (Corporate Finance) at KPMG. He graduated from The Chinese University of Hong Kong with a BSc in Quantitative Finance in 2008.

**Sub-theme 2:
Smart Logistics & Mobility**

***Building a Green Land Transport Ecosystem
for Singapore***



Er CHUA Chong Kheng
Deputy Chief Executive (Infrastructure and Development)
Land Transport Authority, Singapore

Er Chua Chong Kheng has more than 35 years of experience in urban land transport infrastructure development and management in Singapore. He helped pioneer the development of the Mass Rapid Transit (MRT) System in the Lion City.

Currently the Deputy Chief Executive (Infrastructure & Development) of the Land Transport Authority (LTA) in Singapore, Er Chua oversees the planning, design and implementation of all road and rail projects in the island nation, as well as traffic and road operations management. He has held this appointment since 2012. Besides his achievements at the LTA, he concurrently serves as a Director of LTA's subsidiaries, namely the MSI (Global) Pte Ltd, MSI (Shanghai) Engineering Consultancy Pte Ltd and TransitLink Pte Ltd. He is also Vice Chairman of the Singapore Rail Academy.

Er Chua is a Registered Professional Engineer with the Professional Engineers Board of Singapore, as well as a Chartered Engineer of both the Institution of Engineering Technology, UK (IET) and Institution of Engineers, Singapore (IES). He is a Fellow of the IET, IES and the Academy of Engineering Singapore. He is also an Honorary Fellow of the ASEAN Federation of Engineering Organisations. He was conferred the Republic of Singapore Public Administration (Gold) medal in 2015, the Public Service Medal in 2011, and the Public Service Star Medal in 2016.

Sub-theme 2:
Smart Logistics & Mobility

*The Airport City Link – Hong Kong’s First
Public Passenger Transportation System Using
Autonomous Vehicles*



Ir LEUNG Wing Kee, Ricky
Executive Director, Engineering & Technology
Airport Authority Hong Kong

Ir Ricky Leung is Executive Director, Engineering & Technology at the Airport Authority Hong Kong (AAHK). With more than 30 years of experience at the AAHK, he is responsible for engineering and technology development at the AAHK, managing AAHK’s assets and delivering engineering projects at Hong Kong International Airport.

Before joining the AAHK, Ir Leung worked in consulting engineering firms and government departments on the planning, design and management of large-scale infrastructure projects in Hong Kong. He is a Chartered Civil and Structural Engineer with close to 40 years of experience, of which over 30 years are in the planning, design, construction, operation and maintenance of airport infrastructure, facilities and systems. Ir Leung is also a member of the Vocational Training Council, a member of the Construction Industry Council and a board member of the Logistics and Supply Chain MultiTech R&D Centre Limited.

He holds a Master of Business Administration from the Chinese University of Hong Kong and a Bachelor of Science (Engineering) from the University of Hong Kong.

**Sub-theme 2:
Smart Logistics & Mobility**

*Smart Mobility for a High-Quality Liveable
Hong Kong*



Ms LAW Shuk Pui, Rosanna, JP
Commissioner for Transport
Transport Department

Miss Law joined the Government in July 1989. She served in the Labour Officer and Trade Officer Grades before joining the Administrative Service in July 1990, rising to the rank of Administrative Officer Staff Grade A in April 2022. She has served in various bureaux and departments, including the former Civil Service Branch, the former City and New Territories Administration, the former Constitutional Affairs Branch, the Chief Secretary for Administration's Office and the Trade and Industry Department. She was Principal Assistant Secretary for the Environment, Transport and Works (Transport) (later renamed Principal Assistant Secretary for Transport and Housing (Transport)) from March 2007 to August 2009, Deputy Commissioner for Tourism from August 2010 to September 2016, Deputy Secretary for Constitutional and Mainland Affairs from September 2016 to September 2020 and has been serving as Commissioner for Transport since September 2020.

**Sub-theme 3:
Smart Health & Living**

Artificial Intelligence for Assistant Thyroid Nodule Diagnosis in the Era of Precision Medicine



Professor LUO Yukun

*Director of Ultrasound Department,
Chief Physician Professor,
Ph.D. Supervisor
Chinese People’s Liberation Army General Hospital*

- Chairman of Beijing Ultrasound Medical Society
- Chairman of Ultrasound Medicine Committee of the Chinese Research Hospital Association
- Vice President of Chinese Ultrasound Doctors Association and Chairman of Discipline Construction and Management Committee
- President Designate of Ultrasound Professional Committee of Chinese Medical Imaging Technology Research Association
- Secretary-general of Ultrasound Professional Committee of Chinese PLA
- Editor of Chinese Journal of Medical Ultrasound (Electronic Edition), Chinese Journal of Hepatobiliary Surgery, Chinese Journal of Medical Imaging, Chinese Journal of Medical Imaging Technology etc.

Research

- Ultrasound-guided thermal ablation for thyroid diseases
- AI-assisted ultrasound for the diagnosis thyroid nodule and evaluation of invasiveness
- AI- assisted ultrasound for the diagnosis of trauma and critical illness
- Presided 4 projects of National Natural Science Foundation
- Beijing Municipal Science & Technology Commission-Special subject of AI
- Presided 1 project of Beijing Natural Science Foundation

Awards

- 2021 First prize of Medical Science and Technology Award of China Research Hospital Association
- 2008 The project “Research on the application of computer reconstruction imaging to assist abdominal viscera post-traumatic bleeding”, and the related research achievements won the first prize of the 2011 Military Science and Technology Progress Award;
- 2016 “The application of ultrasonic deep learning automatic recognition system in thyroid cancer diagnosis” won the first prize of the military ultrasound excellent paper;

Publication

- Published 90 SCI papers as the first author or corresponding author

**Sub-theme 3:
Smart Health & Living**

Smart Devices for Smart Health & Living



Ir Professor Wei-hsin LIAO

*Chairman and Choh-Ming Li Professor of Mechanical
and Automation Engineering
The Chinese University of Hong Kong*

Ir Professor Wei-Hsin Liao is Department Chairman and Choh-Ming Li Professor of Mechanical and Automation Engineering at The Chinese University of Hong Kong. He is a Fellow of the American Society of Mechanical Engineers (ASME), the Hong Kong Institution of Engineers(HKIE), and Institute of Physics (IOP), and concurrently serves as an Associate Editor for Journal of Intelligent Material Systems and Structures. Ir Professor Liao also serves on the Executive Editorial Board of Smart Materials and Structures.

His research has led to publications of over 350 papers in international journals and conference proceedings, and 21 granted patents. Four of his journal papers received awards from major engineering societies worldwide. He was the Conference Chair for the 20th International Conference on Adaptive Structures and Technologies in 2009; the Active and Passive Smart Structures and Integrated Systems, International Society for Optics and Photonics (SPIE) Smart Structures/Non-destructive Evaluation (NDE) in 2014 and 2015. He is the recipient of the 2020 ASME Adaptive Structures and Material Systems Award and the 2018 SPIE Smart Structures and Materials (SSM) Lifetime Achievement Award, to recognise his outstanding contributions to the advancement of smart structures and materials. As the Chair of Joint Chapter of Robotics, Automation and Control Systems Society, Institute of Electrical and Electronics Engineers (IEEE) Hong Kong Section, Ir Professor Liao received the 2012 Chapter of the Year Award from the IEEE Robotics and Automation Society.

**Sub-theme 3:
Smart Health & Living**

*Deep Tech Research and Translation for
Precision Health*



Ir Professor Anderson Ho-cheung SHUM

*President,
The Hong Kong Young Academy of Sciences*

*Professor, Department of Mechanical Engineering,
The University of Hong Kong*

Ir Professor Anderson Shum is President of The Hong Kong Young Academy of Sciences; Associate Vice-President (Research and Innovation) and Professor in the Department of Mechanical Engineering at the University of Hong Kong and Director of the Advanced Biomedical Instrumentation Centre.

His work in research and development is globally recognised, having received numerous international awards. His core research areas include emulsions, biomicrofluidics, biomedical engineering and soft matter.

Ir Professor Shum was selected to join the Global Young Academy as a new member in 2021. He received the Croucher Senior Research Fellowships 2020, National Natural Science Foundation of China (NSFC) Excellent Young Scientist Fund in 2019, and was elected as a Fellow of the Royal Society of Chemistry in 2017. He is an editorial board member of several scientific publications and he also serves on committees, including the Mechanical Systems and Manufacturing Technology Subgroup in the Innovation and Technology Fund Research Projects Assessment Panel of the Innovation and Technology Commission.

**Sub-theme 4:
Smart Building & Construction**

Application of Smart Construction Technology in Large-Scale Infrastructure Projects – Exploration and Innovation of Smart Building and Construction Technology for Large-scale Cross-sea Channel Project Immersed Tube Tunnel



Mr LIANG Heng, Henry

Deputy General Manager, Executive Deputy Leader, FHKIE, FCinstCES

China Communications Construction Company Regional Headquarters in Guangdong-Hong Kong - Macau Greater Bay Area

China Communications Construction Company Guangdong - Hong Kong-Macau Business Coordination Group

Mr Henry Liang is a leader in the field of management of large-scale infrastructure projects in China. With thirty years of experience under his belt, he spearheaded a variety of large-scale infrastructure projects in China and abroad, including the building of smart ports, smart cities, and the smart construction of bridges and tunnels.

Mr Liang led project teams through multiple challenging projects and won numerous global awards for engineering, project design, and construction management. Among his major representative projects is the Hong Kong-Zhuhai-Macao Bridge Immersed Tube Tunnel, which is the world's first deeply buried immersed tube tunnel measuring approximately 6.7 kilometres long. Mr Liang acted as Project Manager and Chief Engineer, and directed the team in the construction of immersed pipe joints using prefabricated production technology to ensure completion of the project in a seamless manner.

Another major project completed under Mr Liang’s watch is the Third Runway Project at Hong Kong International Airport, which consists of approximately 6.5 square kilometres of reclaimed land and a roughly 13 km long sea embankment. Under his supervision, his team pioneered a special combined reclamation technique using machine-made sand, marine sand, and public backfill, alleviating concern over marine sand shortage. The project marks the first ever large-scale construction of deep cement mixing (DCM) over water and on land in Hong Kong, and the third runway was completed and began operating in July 2022.

**Sub-theme 4:
Smart Building & Construction**

Embracing ESG into Smart Construction – Smart Community



Ms Rosana WONG

*Executive Director
Yau Lee Holdings Ltd.*

Ms Rosana Wong leads Yau Lee Group as its Executive Director and is responsible for the Group's provision of multidisciplinary Architecture, Engineering, Construction and Operation (AECO) services and its promotion as an integrated green corporation. She is passionate about technology, innovation and dynamic spatial data, and founded Ophylla Ventures and a group of start-ups to develop and execute her vision for a smart city.

Ms Wong also serves as Director of Hong Kong Cyberport and as Chair of the Construction and Facilities Committee, Vice President of Smart City Consortium and Chair of the Smart Living Committee, Deputy Director of China Green Building (Hong Kong) Council (CGBC(HK)), and as a member of various Government bodies, including the Transport Advisory Committee, Chair of the Transport Complaints Unit, Green Minibus Operators Selection Board and the Sub-committee on Access of Rehabilitation Advisory Committee. She is also a Co-Chair of Construction Industry Council's (CIC) Task Force on its Building Information Modelling (BIM) Personnel Development, a member of the CIC's Committee on BIM as well as of the Advisory Panel for Signature Common Data Environment (CDE) Course and Master Class on Artificial Intelligence (AI), Council Member of the Hong Kong Trade Development Council (HKTDC) Mainland Business Advisory Committee and a member of the HK Taxi Industry Innovation Committee.

**Sub-theme 4:
Smart Building & Construction**

Building a Smart and Green Hong Kong – From Vision to Realisation



Ir FONG Hok-shing, Michael, JP
Director of Civil Engineering and Development
Civil Engineering and Development Department

Ir Fong is currently the Director of Civil Engineering and Development, leading the Department in taking forward Hong Kong's new town development and land supply projects, among which are the Northern Metropolis and the Lantau Tomorrow Vision that serve as the two key drivers for the social and economic growth of Hong Kong.

Over the past 30 years, Ir Fong held numerous positions in various works departments and the Development Bureau (DEVB), including Chief Assistant Secretary of DEVB, Assistant Director / Projects and Development of Drainage Services Department, Deputy Project Manager of the West Development Office of Civil Engineering and Development Department (CEDD), and Head of Sustainable Lantau Office of CEDD. Ir Fong is widely known in the construction industry as a determined champion of construction safety and innovation technologies.

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Ir Dr. Otto Poon, BBS, OBE



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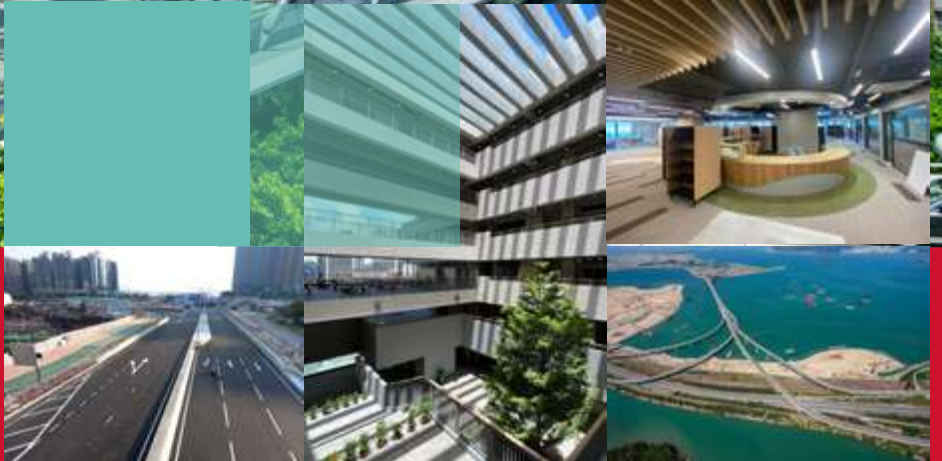
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安全裝配



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1

中央援港社區隔離及治療設施

香港第五波疫情爆發，公司臨危受命以中國速度打造生命之舟，僅用122天完成交付全部中央援港6個臨時社區隔離設施及2個永久社區隔離治療設施。當中啟德社區隔離治療設施為全港首個4層結構的MiC永久隔離治療設施及首個採用預製電梯井道的MiC隔離治療設施。

2

中醫醫院及政府中藥檢測中心項目

公司採用組裝合成建築法(MiC)、應用Modular OT技術、並在建造過程中全程採用公司自主研发的C-SMART智慧工地系統的香港首間中醫醫院。項目於2022年6月2日舉行動土典禮，預計建成後每年診症服務量約達31萬人次。

3

香港將軍澳海水化淡廠第一階段工程

公司以“設計、建造、運營”一體化模式實施的香港特區政府水務史上最大民生工程。項目於2022年10月20日舉行平頂儀式，並預計可於2023年生產出第一杯由海水轉化而來的飲用水。

4

香港故宮文化博物館

2022年7月2日，北京故宮博物院在內地以外的首個合作項目 - 香港故宮文化博物館正式開館。

5

有機資源回收中心第二期項目 低碳建造展覽館

展示公司低碳建造科技，打造香港綠色低碳施工全新的展示窗口與交流平臺。

6

啟德新急症醫院工程

香港十年醫院發展計劃唯一新建的大型急症全科醫院，是應對香港人口老化及醫療資源緊缺的重要民生工程，也是香港歷史上工程體量及合約金額最大的醫院工程。

2022
10月

2022
12月

2022
12月

2023
1月

近10年，中國建築國際及旗下中建香港在建築領域持續深耕，受到業界廣泛認可，榮獲逾1600個包含質量科技、企業品牌、安全管理、健康管理及環境管理類獎項。



中建香港在“HKIBIM Award 2021”勇奪年度機構大獎，繼續積極推動“全民皆BIM”，開創全面數字化的建築新時代。



中建香港作為香港特別行政區代表團成員之一參加“第二十一屆亞太資訊及通訊科技大獎”，並憑藉自主研发的“C-SMART智慧工地管理平台”榮獲“工業類別-工程及建築”組別大獎，成為亞太資訊及通訊科技大獎開辦以來首屆獲此獎項的工程承建商。



中建香港承建的香港故宮文化博物館項目榮獲2022年度MIPIM Asia大獎(亞太區房地產領袖高峰會獎)“最佳基建發展、社區及市政建築項目”組別金獎。



中建香港憑藉香港有機資源回收中心二期工程在聯合國工業發展組織2022全球方案徵集的低碳“智”造方面表現卓越，成為本年度獲得全球冠軍獎的唯一建築企業。

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Description of the Corporation

China Road and Bridge Corporation (CRBC) mainly undertakes contracting, investment, development and operation of road, bridge, port, railway, airport, tunnel, real estate and industrial park projects. With branches and offices in nearly 60 countries and regions global, CRBC has established an efficient and rapid market network.

CRBC has over 31 years' experience in Hong Kong construction market. It is registered on the List of Approved Contractors for Public Works for Group C kept by Development Bureau under all five categories including Build-ings, Port Works, Roads and Drainage, Site Formation and Watermain. Currently, CRBC undertakes 19 on-going projects in Hong Kong with total contract sum of over HKD 27 billion.



Phnom Penh - Sihanoukville Expressway Project, Cambodia



Suramadu Bridge, Indonesia



Bar-Boljare Highway, Montenegro



Peljesac Bridge, Croatia

Kai Tak Development Stage 3 Infrastructure Works

Contract No.: KL/2014/03

Robotic Aqua Jet Cutter construction technology have been actively used to protect the environment and improve efficiency, and is admired by the government and the industry.



- Aqua Jet Cutter is a Diesel Driven and Remote-Controlled Robot
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- Remove Diaphragm Wall Overbreak without Damaging the Reinforcement

Cross Bay Link (CBL) Tseung Kwan O

Contract No.: NE/2017/07

Installation of Steel Bridge Sections by Float-over Method

- The innovation of the float-over method has reduce the construction time and cost.
- High standard of quality and workmanship are assured.



- Adopting Fully Digitalized Design with DfMA and Pre-fabrication Concept, enhanced the productivity, the efficiency, safety and quality of the project.



Ping Che Road Transitional Housing Project - adopted MIC construction method

Contract No.: KPA-J2202



- Estimated at about 601 units and about 1000 residents
- Estimated construction of 2 nos. four-storey buildings
- 1 no. single-storey amenity block
- 1 no. single-storey day care centre for the Elderly

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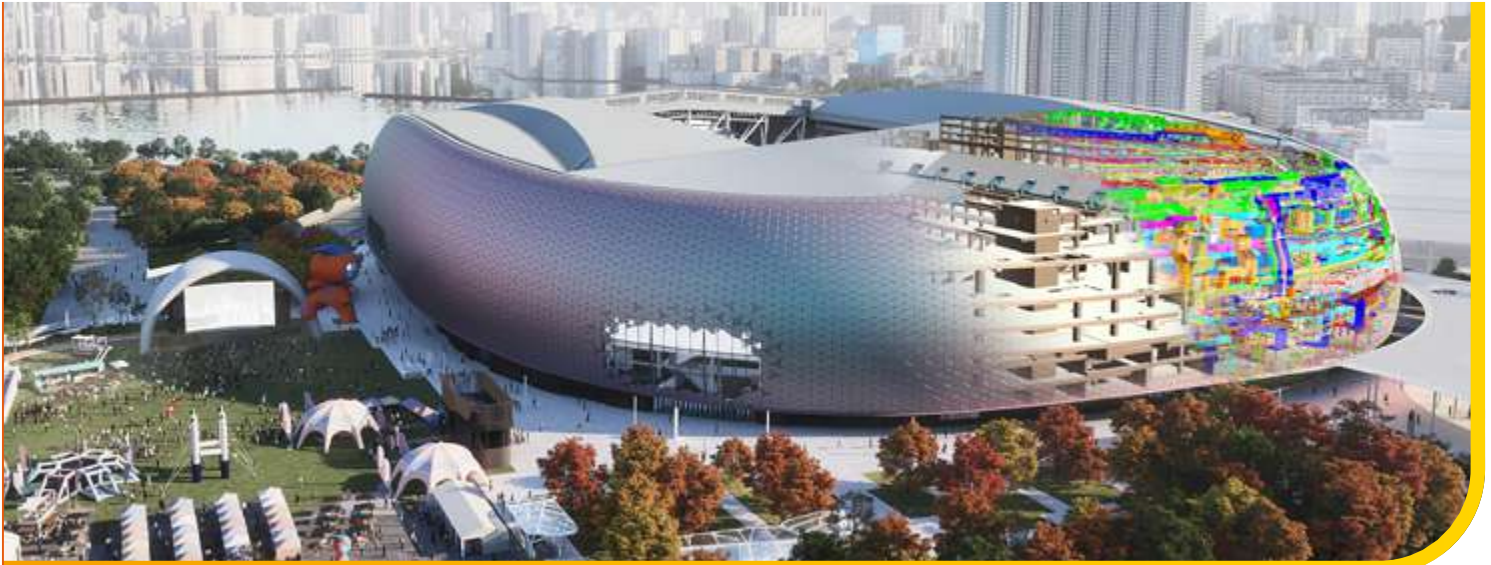
獲委託利用「組裝合成」建築法（鋼材）興建葵涌業成街5-7號過渡性房屋
Entrusted the building of Modular Social Housing at 5-7 Yip Shing Street, Kwai Chung by steel MiC systems



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Noise Barriers along Tuen Mun Road



Kai Tak development - stage 4 infrastructure



Temporary Quarantine Camp at Penny's Bay (Phase IV)

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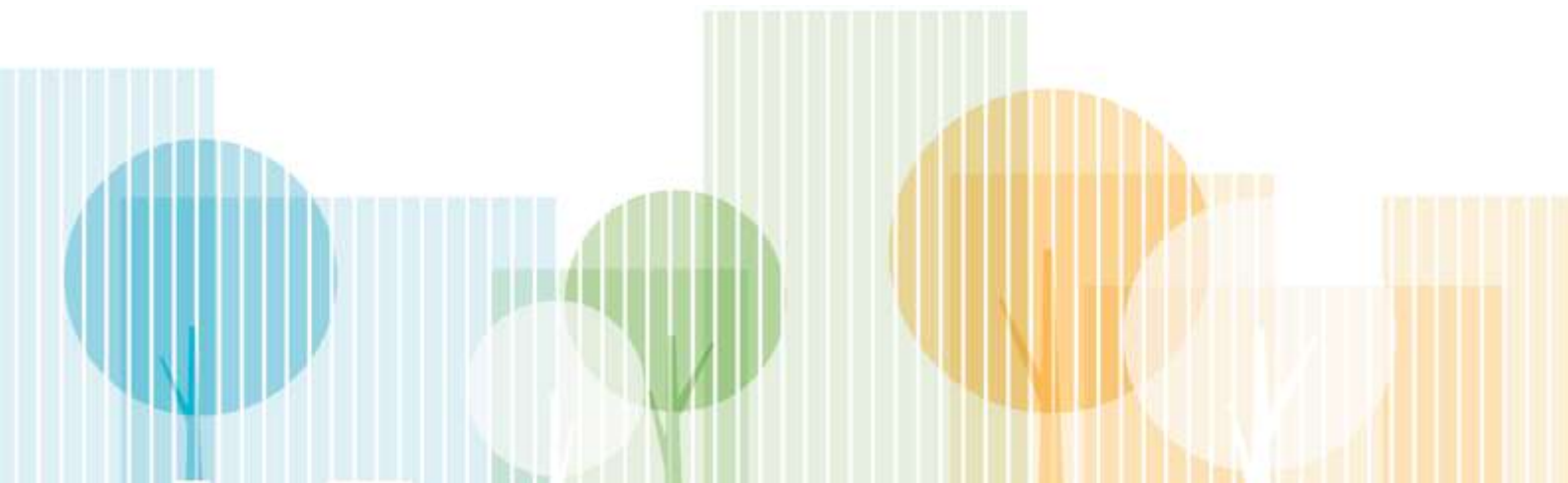
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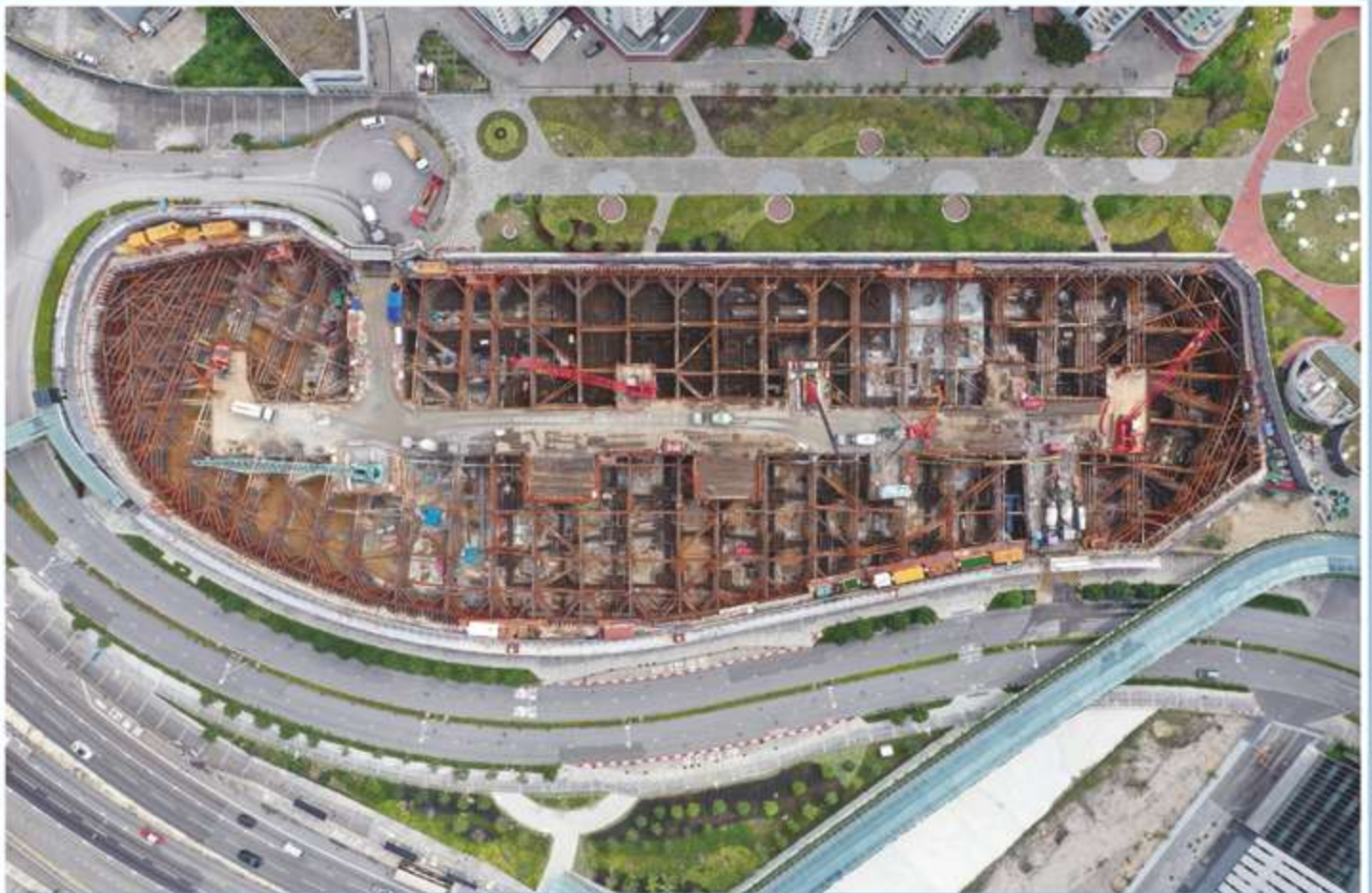
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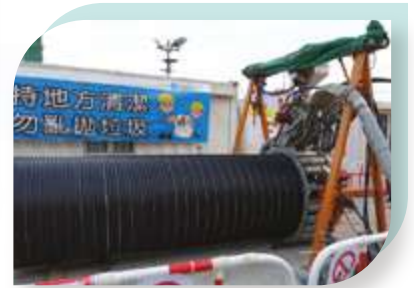
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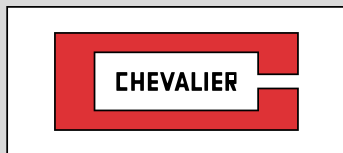
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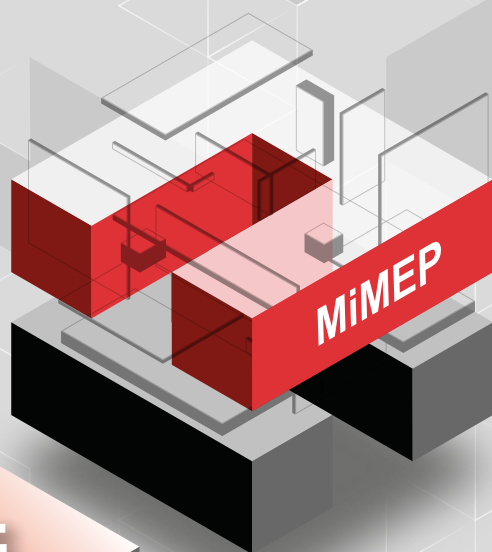
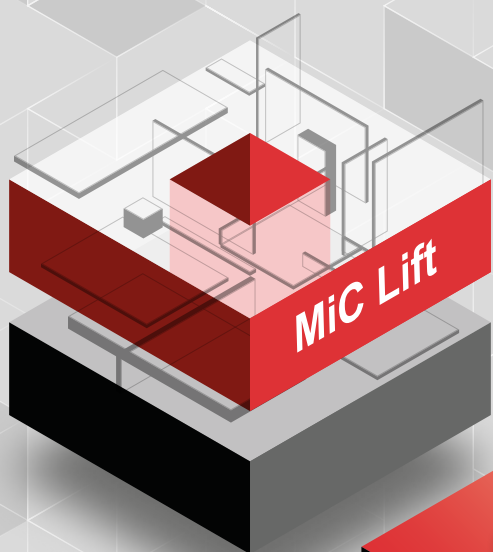


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Structural Steel Footbridge - Admiralty - HY/2013/13



Experience



Prestressed Concrete Footbridge - Fanling Station - CV/2016/06



Horizontal Pipe Piles and Trenchless Excavation - Shek Mun - CV/2020/02

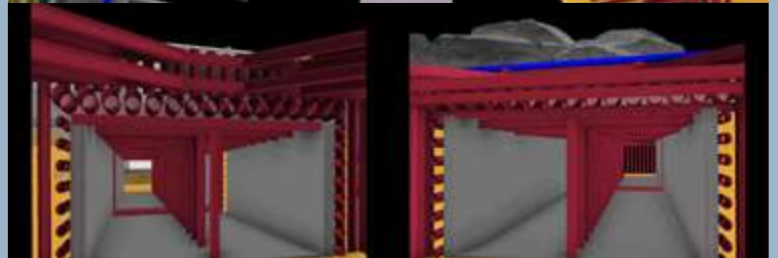
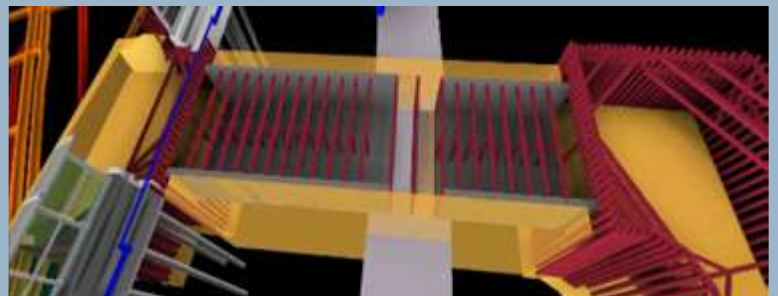


Lift Tower and Footbridge - Ho Man Tin - HY/2016/03

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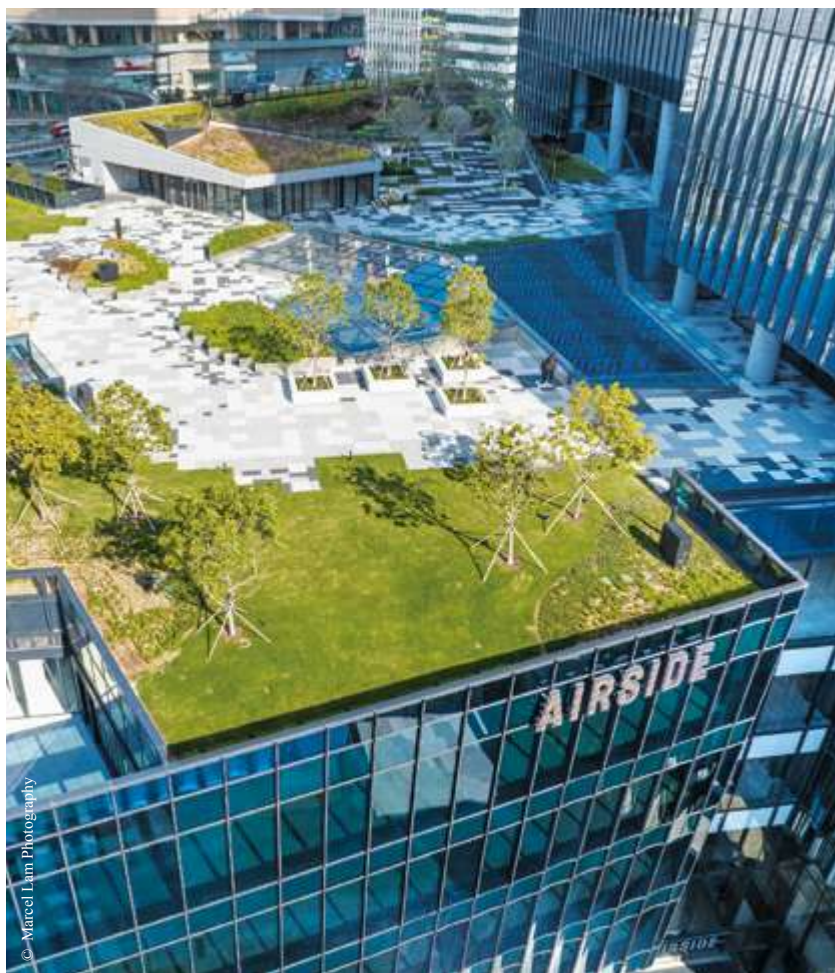
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CEDD Contract: KL/2016/01 – West Kowloon Reclamation – Main Works (Remainder) – Footbridge at Junction of Sham Mong Road / Tonkin West in Sham Shui Po

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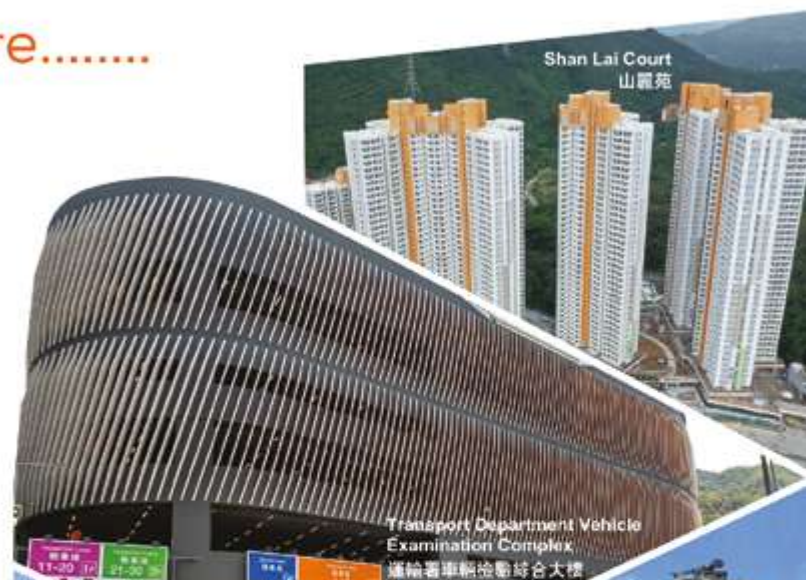
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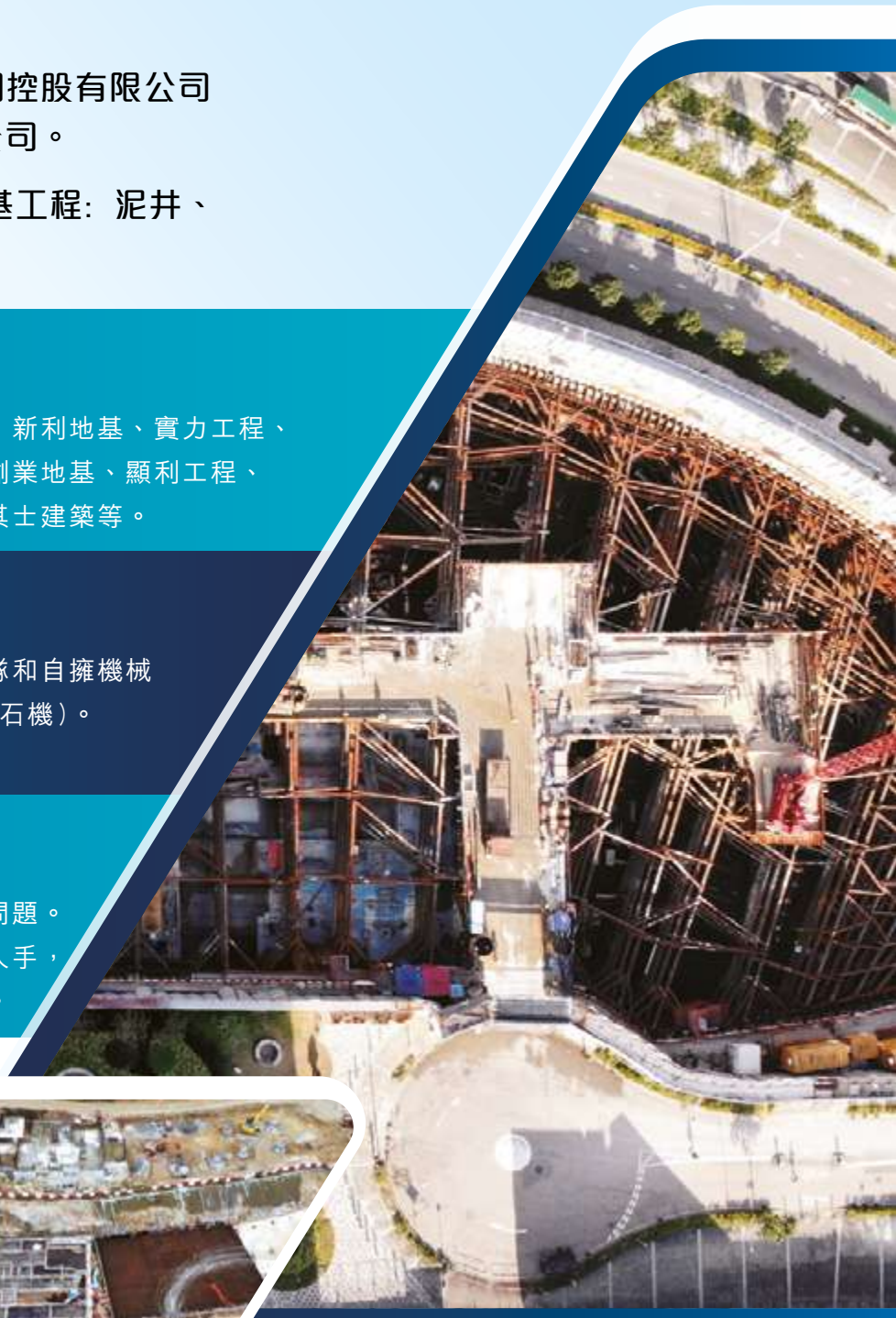
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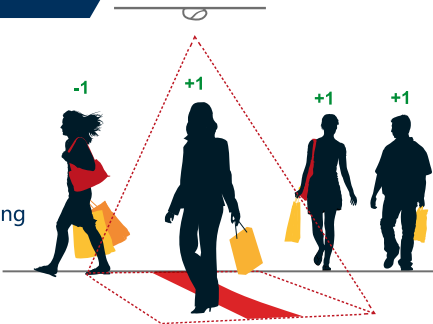
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離場人數	1234

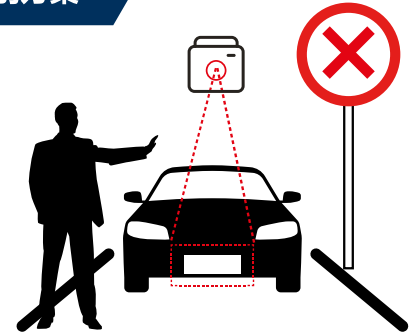
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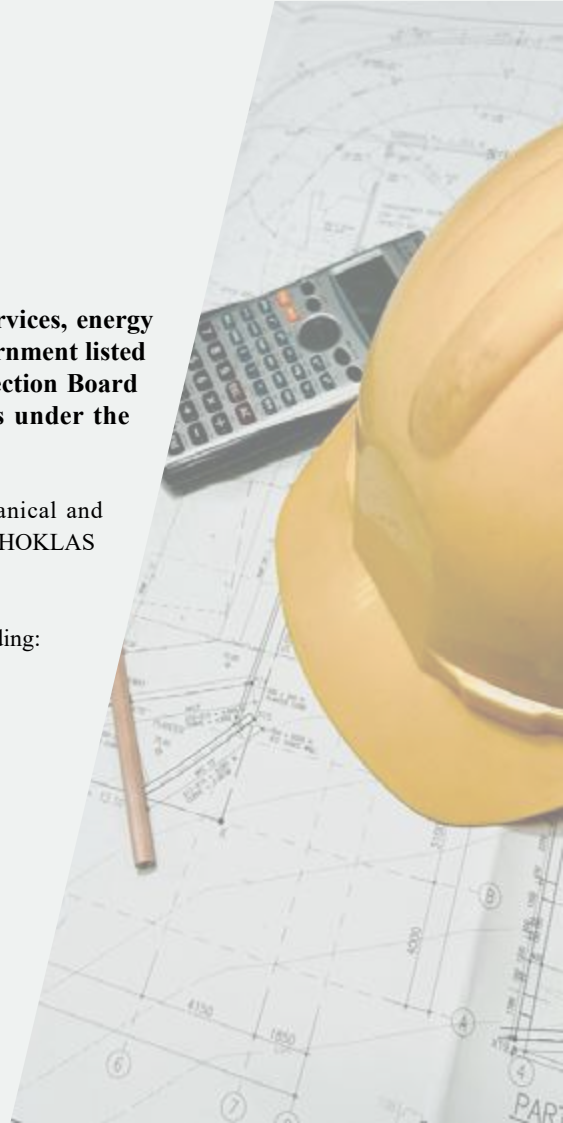
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The Hong Kong Institution of Engineers (HKIE) – previously The Engineering Society of Hong Kong - was founded in 1947. In 1975, the Institution of Engineers, was incorporated under the Hong Kong Institution of Engineers Ordinance, Chapter 1105 of the Laws of Hong Kong. Today the HKIE has over 30,000 members, of which more than 16,000 are Corporate Members.

The Institution aims to bring together engineers of different disciplines for their common good. The HKIE is committed to upholding the quality of membership, and sets standards for the training and admission of engineers from 21 engineering disciplines. It also has strict rules governing members’ conduct and is dedicated to raising the ethical standards of professional engineers in Hong Kong. The HKIE encourages the 19 divisions to hold regular activities to keep members abreast of the latest engineering developments and also provide opportunities for their continuing professional development.

As a professional body championing engineering excellence, the HKIE prides itself on being a proactive social citizen by not only nominating members to serve on various external boards and committees of Government Departments and higher education institutions, but also by providing timely and constructive comments and professional advice on the Government’s consultation papers. The engineering profession has one seat representing the Engineering Functional Constituency in the Legislative Council through which views of the profession can be expressed to the Government.

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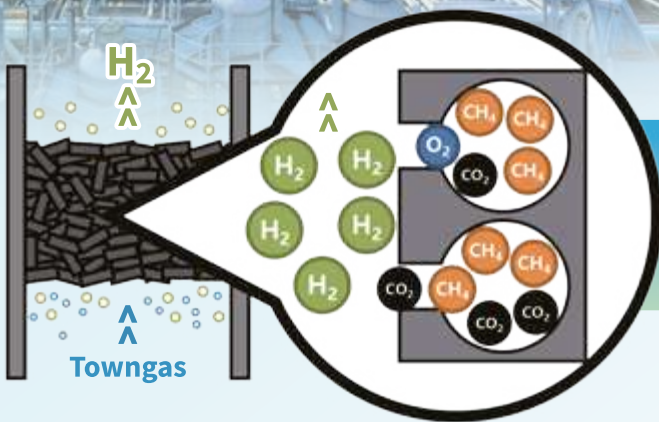
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