



CIC CONSTRUCTION DIGITALISATION AWARD

建造業議會數碼化大獎

2024



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| Building Information Modelling (BIM) & Digital Twin | 24-25 |
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| ORGANISATION CATEGORY | |
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| Client (Private) | 40-43 |
| Consultant | 44-49 |
| Contractor | 50-55 |
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| Training / Research Institute | 62-65 |

OBJECTIVE

- To recognise outstanding local projects and local organisations for their contribution in the promotion and adoption of digitalisation tools and workflows and in bringing innovation in these areas to improve productivity, quality, sustainability and safety, with measurable KPIs; and
- To share the knowledge and experience of the digitalisation leaders with the industry through post-award seminars and workshops.

AWARD CATEGORIES

PROJECT CATEGORY

SUB-CATEGORIES

- Project (Public)
- Project (Private)

SPECIAL SUB-CATEGORIES

- Building Information Modelling (BIM) & Digital Twin
- Common Data Environment (CDE)
- OpenBIM
- Smart Site Safety System (SSSS)

ORGANISATION CATEGORY

SUB-CATEGORIES

- Client (Public)
- Client (Private)
- Consultant
- Contractor
- Small and Medium Enterprise (SME)
- Training / Research Institute

JUDING CRITERIA

PROJECT CATEGORY

| CRITERIA | | DESCRIPTION |
|---|-----|--|
| Smart Technical Execution & Benefit Realisation | 30% | Demonstrate how the implemented digital technologies have been selected and how they have benefited the specific design and construction process(s) or task(s) with tangible measures in term of enhancement in productivity, safety, sustainability, quality, time and cost, etc. |
| Strategy, Planning & Leadership | 30% | Elaborate how the project teams have set strategies to plan, develop and engaged to implement the digital technologies in the project |
| Innovation & Process Streamlining | 20% | Illustrate what innovation has been introduced in the project and how the project team have streamlined the design and construction processes and improved the efficiency of the overall project execution |
| ESG Impact | 10% | Elaborate the ESG factors that have been considered by the project team in implementing the project and the contributions made by the digital technologies adopted and share innovative digital solutions with industry |
| Safety Management | 10% | Illustrate what innovation has been introduced in the project and how the project team have improved the safety management of the project through the adoption of digital solutions or tools in the project |

FOUR SPECIAL SUB-CATEGORIES

| CRITERIA | | DESCRIPTION |
|----------------------|-----|--|
| Planning & Execution | 75% | Overall adoption plan of the technology in the project, including the use of the technology, resource planning, and the detail execution of the plan |
| Innovation | 25% | Innovative use of the technology in addition to the common use of the technology in the local industry and its impact to the project |

JUDING CRITERIA

ORGANISATION CATEGORY

| CRITERIA | | DESCRIPTION |
|---|-----|---|
| Smart Technical Execution & Benefit Realisation | 30% | Demonstrate by using the different projects implemented and the processes streamlined (internal operation or workflow) which have benefited from the digital technologies adopted by the organisation with tangible measures in term of enhancement in productivity, safety, sustainability, quality, time and cost, etc. |
| Strategy & Leadership | 30% | Demonstrate how the organisation has set strategies, implemented action plans and internal user buy-in on its digital transformation journey and developed innovative digital capabilities in the organisation which improve the market potential or performance |
| Innovation Management & Operation | 20% | Demonstrate how the organisation has created and maintained an environment to nurture and reward innovation and digital transformation |
| ESG Impact | 10% | Elaborate the ESG factors that have been considered by the organisation in implementing the projects and internal operations and the contributions made by the digital technologies adopted and share innovative digital solutions with industry |
| Safety Culture | 10% | Demonstrate how the organisation has built up or improve the safety culture of their organisation through the use of innovative digital solutions or technologies |

LIST OF WINNERS

PROJECT CATEGORY

| PROJECT (PUBLIC) | |
|------------------|--|
| Gold | Trunk Road T2 and Cha Kwo Ling Tunnel |
| Silver | Empowering Smart Airport City with Digital Twin |
| Bronze | Development of Lok Ma Chau Loop - Main Works Package One |
| Bronze | Kwu Tung Station on East Rail Line |

| PROJECT (PRIVATE) | |
|-------------------|--|
| Gold | New Central Harbourfront Site 3 |
| Silver | One Causeway Bay |
| Bronze | Sanfield Engineering Construction Limited Digital Transformation |

| BUILDING INFORMATION MODELLING (BIM) & DIGITAL TWIN COMMON DATA ENVIRONMENT (CDE) SMART SITE SAFETY SYSTEM (SSSS) | |
|---|---------------------------------------|
| Winner | Trunk Road T2 and Cha Kwo Ling Tunnel |

| OPENBIM | |
|---------|---|
| Winner | Commercial Development on IL No. 8945, Caroline Hill Road |

ORGANISATION CATEGORY

| CLIENT (PUBLIC) | |
|-----------------|---|
| Gold | Construction Digitalisation Journey of Airport Authority Hong Kong |
| Gold | Architectural Services Department |
| Bronze | Digital Transformation - A Journey from Scratch to Infinity (Independent Checking Unit, Office of the Permanent Secretary for Housing, Housing Bureau) |
| Bronze | MTR Capital Works |
| Bronze | Urban Renewal Authority - Digital Construction Management Platform |

LIST OF WINNERS

ORGANISATION CATEGORY

CLIENT (PRIVATE)

| | |
|--------|------------------------------|
| Silver | Nan Fung Development Limited |
| Silver | Kerry Properties Limited |

CONSULTANT

| | |
|--------|-------------------------------|
| Gold | Rider Levett Bucknall Limited |
| Silver | Digital AECOM |
| Bronze | TFP Farrells Limited |

CONTRACTOR

| | |
|--------|--------------------------------------|
| Gold | Gammon Construction Limited |
| Silver | China State Construction Engineering |
| Bronze | Leighton Contractors (Asia) Limited |

SMALL AND MEDIUM ENTERPRISE (SME)

| | |
|--------|--|
| Gold | Varadise Limited |
| Silver | Janus Services Limited |
| Bronze | Llewellyn and Partners Company Limited |

TRAINING / RESEARCH INSTITUTE

| | |
|--------|--|
| Gold | The Hong Kong University of Science and Technology |
| Silver | Modular Integrated Construction Laboratory (MiCLab) of HKU |

PROJECT CATEGORY



PROJECT CATEGORY

Project (Public)

Project (Private)

Building Information Modelling (BIM) & Digital Twin

Common Data Environment (CDE)

Smart Site Safety System (SSSS)

OpenBIM

Trunk Road T2 and Cha Kwo Ling Tunnel Civil Engineering and Development Department



Organisations to be Credited

- Asia Infrastructure Solutions
- Meinhardt Infrastructure and Environment Limited
- Bouygues Travaux Publics

Introduction of the Project

Trunk Road T2 and Cha Kwo Ling Tunnel (collectively "Trunk Road T2") constitutes the central part of Route 6 that will serve as a strategic east-west link across Kowloon. With the new Route, journey time between Yau Ma Tei to Tseung Kwan O will be substantially shortened from the present 65 minutes to 12 minutes. Trunk road T2 comprises 3.4km of dual tunnels and two ventilation buildings. It starts from Kai Tak in the west and connects to the Tseung Kwan O - Lam Tin Tunnel in the east, serving to reduce travelling time by 80%.

The T2 project is complicated, involving a multitude of works types including deep shafts, buildings, sub-sea tunneling by Tunnel Boring Machines (TBMs), and drill-and-blast / drill-and-break mined tunnels, etc.

The works are highly challenging. The 2.4km long subsea portion of the tunnels are in difficult geology and routed closely beneath seawalls and breakwaters. The 35m deep TBM launching shaft in Kai Tak is located less than 2.5m away from the friction piles of the highly sensitive Public Works Central Laboratory; and the mined tunnels are routed in hard rock right under the sensitive Cha Kwo Ling Village.

The T2 project is under a tight delivery schedule for early realisation of its substantial transportation benefits that will lead to many related enhancement like reductions in traffic emissions and air quality improvement. Digitalisation provides the team with the much-needed means to achieve efficiency as well as project expedition alongside numerous other merits.

GOLD



Empowering Smart Airport City with Digital Twin

Airport Authority Hong Kong



Introduction of the Project

The Airport Authority Hong Kong (AAHK) vision is to develop a Smart Airport City at Hong Kong International Airport (HKIA) and align with the Greater Bay Area Development by HKSARG. This would solidify the airport's position as a key aviation hub. Cutting-edge innovative technologies such as Building Information Modelling (BIM) for Architecture, Engineering and Construction AEC (AEC) and a Geographic Information System (GIS) centric Digital Twin for Operation and Maintenance (O&M) in enhancing revamp project safety, constructability, maintenance and operational efficiency to cater for future demands, projected at over 120 million passengers by 2035. The digital transformation journey integrates GIS and BIM to form a digital twin, a 3D replica of HKIA's infrastructure.

AAHK adopted a GIS-centric Digital Twin with BIM embedded, performing as a combination of BIM and GIS and backed by artificial intelligence, big data, and spatial analytics. HKIA Digital Twin creates dynamic digital models that adapt alongside physical

changes, enabling predictive decision-making and comprehensive airport management, not only daily operations and maintenance processes by consolidating geographic information across airport departments but also an integrated approach that facilitates the entire building lifecycle, from design and construction to operation and asset management.

HKIA Digital Twin accommodates dynamic and real-time data integration through dedicated 5G bandwidth infrastructure. This infrastructure utilises IoT devices and big data intelligence to holistically monitor and analyse operation data. This technology fusion empowers the Airport Authority Hong Kong to optimise airport operations and enhance overall efficiency.

SILVER



Development of Lok Ma Chau Loop - Main Works Package One West Development Office, Civil Engineering and Development Department



Organisations to be Credited

- Civil Engineering and Development Department
- China Road and Bridge Corporation
- China Railway 11th Bureau Group Co., Ltd – Kwan Lee Holding Limited – Paul Y. Construction Company Limited JV
- AECOM Asia Co. Ltd.

Introduction of the Project

According to the “Memorandum of Understanding on Jointly Developing the Lok Ma Chau Loop” signed by the Hong Kong SAR Government and the Shenzhen Municipal Government in 2017, the two governments will jointly promote the collaboration of innovation and technology and establish the Hetao Shenzhen-Hong Kong Innovation and Technology Co-operation Zone under the principle of “One Zone, Two Parks”. The Development of the Lok Ma Chau Loop Project (“the Project”) included site formation works of 87-hectare of land and various infrastructure works to support the development of the Hong Kong-Shenzhen Innovation and Technology Park (“HSITP”), which is strategically located near the border of Hong Kong adjacent to Shenzhen with an unique synergistic significance.

Sharing the same vision of HSITP for innovation and technological excellence, the Project incorporates



Artistic Impression of HSITP

the state-of-the-art infrastructures to bolster the park’s capacity as a bridgehead for Hong Kong’s Innovation and Technology development. One notable achievement is the development of revolutionary bridge construction method through the power of precise digitalisation technology, allowing for the realisation of ideas that had previously been considered beyond reach.

Embracing the complex and diverse challenges of the Project, the project team was fully dedicated to adopting digitalisation technologies, establishing a digitalised working environment that enhanced project efficiency, streamlined operations, and prioritised sustainability and safety. The project team’s aspiration was not only to optimise the outcomes of the Project but also to set a benchmark for the construction industry as a whole.

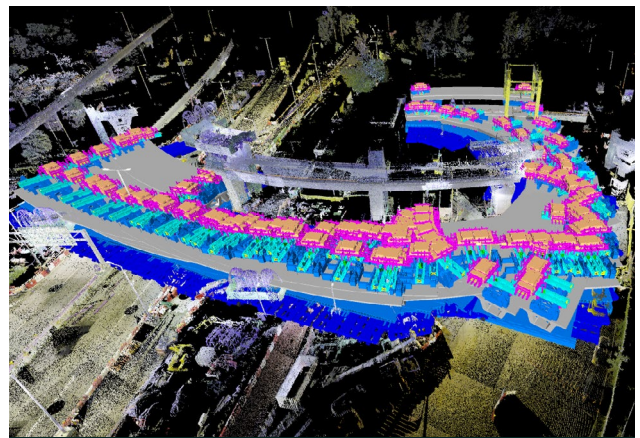
BRONZE



Aerial View of Bridge ST01 constructed by Full-Span Deck Erection Method



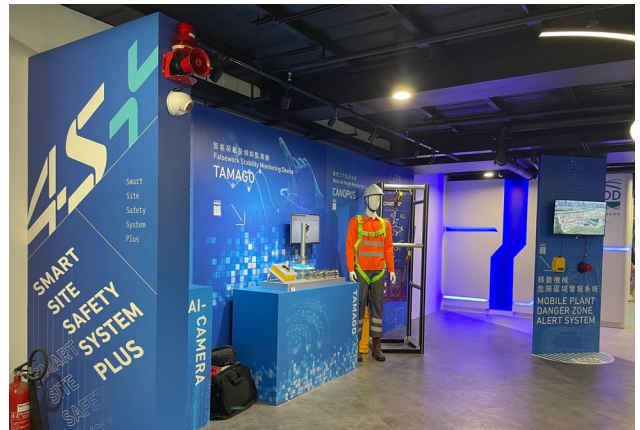
Use of 3D Scanning Technology



Digitalised Simulation of Operation of Full-Span Deck Erection Method



Smart Site Control Centre and Smart Site Safety Training Centre



Kwu Tung Station on East Rail Line

MTR Corporation Limited



The station name is a working title only. All drawings and visuals are provided for concept illustration only, and the content is subject to change.

Organisations to be Credited

- Dragages
- Meinhardt (Civil & Structure)
- Hassell (ARC & LAN)
- BYME Engineering (MEP)

Introduction of the Project

KTU (EAL) - the first station to be built atop an operating railway tunnel in Hong Kong. Innovative technologies have been applied at every stage to visualise the railway structures' internal and external design, making integration and communication on construction works easier.

Taking into account the development pave along the Northern Link, the construction of KTU (EAL) has been first commenced and then the construction of the Main Line, including Kwu Tung Station on the Northern Link, progressively. Kwu Tung Station on the East Rail Line and Kwu Tung Station on the Northern Link will be next to each other and inter-connected.

KTU (EAL) will be located in the town centre of the future Kwu Tung North NDA, near the NDA's

residential, retail, leisure, social services and community facilities. In addition to facilitating travel by residents in the existing communities and the NDA, the proposed station will help unleash the development potential of its surrounding areas and inject new vitality into the community. The detailed design of KTU (EAL) has been completed, and the main construction works have already been commenced in September 2023, with a target to complete the entire project in 2027.

Following the completion of the construction of Kwu Tung Station on the Northern Link, passengers can interchange between the East Rail Line and Northern Link at Kwu Tung Station easily.

BRONZE



New Central Harbourfront Site 3 Henderson Land Development Company Limited



Organisations to be Credited

- Wong & Ouyang (HK) Limited
- Arup
- Arcadis Hong Kong Limited
- isBIM Limited
- China Overseas Building Construction Limited

Introduction of the Project

Henderson Land's New Central Harbourfront Site 3 project has a total site area of approx. 4.8 hectares. Site 3 consists of a gross floor area (GFA) of 1.6 million sq. ft. and a construction floor area (CFA) of 3.1 million sq. ft. Site 3 will be developed in 2 phases with the first phase due to complete by 2027 and the second phase by 2032. This world-class iconic landmark consists of a commercial podium spanning over Lung Wo Road and Yiu Sing Street, a grand theatre and three office towers with a connected landscaped garden at roof, creating a vast amount of green and public spaces.

The architecture of Site 3 is based on the concept of a "BRIDGE". It will become a critical connection between Central and the harbourfront developed into a mixed-use destination with indoor facilities, providing various experiences of innovation, cultural and leisure activities. Site 3 will be a place where work and play intersect, along with shopping, eating, socializing and leisure.

Taking a step further from the notion of a "BRIDGE", the project adopted contractual BIM with a digitalized workflow that integrates design with construction, leading our construction industry into a new age of digitalisation.

GOLD



One Causeway Bay

Gammon Engineering & Construction Company Limited



Organisations to be Credited

- One Causeway Bay Limited
- HongKong Land Limited

Introduction of the Project

The Excelsior Hotel was a landmark building located in Causeway Bay, Hong Kong, which was built in 1973. In 2019, the hotel officially closed and ceased operations. The project, undertaken by Gammon Construction Limited, involves demolition, excavation and new building construction.

The objective of this project is to redevelop the former Excelsior Hotel site into a brand-new Grade-A office building named One Causeway Bay, catering to the growing commercial demands in the Causeway Bay area. The project site covers an area of 4,261 square meters, with a total gross floor area of 63,915 square meters. The building encompasses state-of-the-art green and modern building features, including 3 basement levels, 3 retail floors, 24 office floors, a top-floor restaurant floor with rooftop bar facilities and footbridges connecting to the adjacent buildings. This will bring a brand-new commercial office space to the Causeway Bay district. The project is expected to be completed and delivered for use in mid-2025.

One Causeway Bay fully capitalizes the unique site location with full and unobstructed view of the Victoria Harbour and being at the central heart of the district. It will bring a modern, high-quality commercial office space to Causeway Bay, enhancing the district's commercial offerings.

SILVER



Sanfield Engineering Construction Limited Digital Transformation

Sanfield Engineering Construction Limited



Introduction of the Project

“Cullinan Harbour” is a prestigious residential development situated in the Kai Tak area of Kowloon, Hong Kong, developed by Sun Hung Kai Properties. This project represents the first residential development in Hong Kong designed by the internationally acclaimed architectural firm SOM. The development features an innovative design, incorporating curved terrace elements and distinctive exterior illumination, with approximately 90% of the units offering panoramic views of Victoria Harbour. The project also includes 23 premium units, eight of which are equipped with private swimming pools.

“Cullinan Harbour” is Sanfield Engineering Construction Limited Digital Transformation in the Kai Tak Area 4C Site 3, Kowloon.

The development consists of 10 structures in total—eight high-rise towers and two low-rise blocks—with an anticipated completion date in 2025. The project encompasses a site area of 117,930ft² (10,956m²) and features a total gross floor area of 648,612ft² (60,258m²), which includes a designated yellow area of 64,670ft² (6,008m²).

BRONZE



Trunk Road T2 and Cha Kwo Ling Tunnel Civil Engineering and Development Department



Organisations to be Credited

- Asia Infrastructure Solutions
- Meinhardt Infrastructure and Environment Limited
- Bouygues Travaux Publics

Introduction of the Project

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BUILDING INFORMATION MODELLING (BIM) & DIGITAL TWIN COMMON DATA ENVIRONMENT (CDE) SMART SITE SAFETY SYSTEM (SSSS)

WINNER



Commercial Development on IL No. 8945, Caroline Hill Road, Causeway Bay Hysan Development Company Limited and Chinachem Group



Organisations to be Credited

- Ronald Lu & Partners
- Foster + Partners
- ARUP
- WSP

Introduction of the Project

The Caroline Hill Road Development Project in Causeway Bay, a joint venture between Hysan Development and the Chinachem Group, represents an ambitious and innovative development. This project aims to expand the Lee Gardens area, setting new standards for premium, sustainability-minded offices and creating a unique art and cultural destination. At its heart lies a 6,000sqm lifestyle park featuring an Old and Valuable Banyan Tree, serving as an urban oasis that promotes social interaction and well-being.

Integrating seamlessly with a network of footbridges, the development is easily accessible from the Causeway Bay MTR station, blending high-end offerings and community engagement to create a diverse and vibrant neighborhood at the center of Hong Kong that is suitable for all.

Covering 14,802m² of site area and boasting the largest commercial floor plate on Hong Kong Island, the Project is a commercial complex with three towers with a total gross floor area of 102,000m². Towers 1 and 2 feature a 5-storey commercial podium and 19 office storeys on top of 5 levels of basement. Tower 3 features a 4-storey podium and 11 office storeys on top of 2 levels of basement.

The design emphasises on sustainability and modern living, incorporating energy-efficient systems, green building materials, and smart technologies to minimise environmental impact, and aims to achieve the highest level of environmental certifications. This is a unique opportunity to extend the vibrant experience of Causeway Bay and create a new landmark for Hong Kong on a site with valuable cultural and heritage assets. Embracing the site's unique characteristics, our design integrates seamlessly with its surroundings, unlocks new connections, and provides high-quality public spaces that breathe new life into the local area.

WINNER



ORGANISATION CATEGORY





ORGANISATION CATEGORY

Client (Public)

Client (Private)

Consultant

Contractor

Small and Medium Enterprise (SME)

Training / Research Institute

Construction Digitalisation Journey of Airport Authority Hong Kong



Introduction of the Organisation

From City Airport to Smart Airport City

Development Strategy:

Development of the Smart Airport City calls for infrastructural and functional enhancements, as well as a flexible planning approach which allows the airport to be more responsive to market changes and trends, which in many ways are driven by new technologies. For this reason, a three-pronged development strategy has been mapped out and represented by: Infrastructure, Innovation and Destination. The development strategy also aligned with Greater Bay Area Development Strategy of the HKSARG.

Infrastructure:

Infrastructure underpins the Smart Airport City. The focus of major infrastructure development at HKIA will remain on the construction of the Three-runway System (3RS), targeted for completion and commissioning in 2024. In tandem, a series of expansion projects have been planned and executed in the past few years.

Innovation:

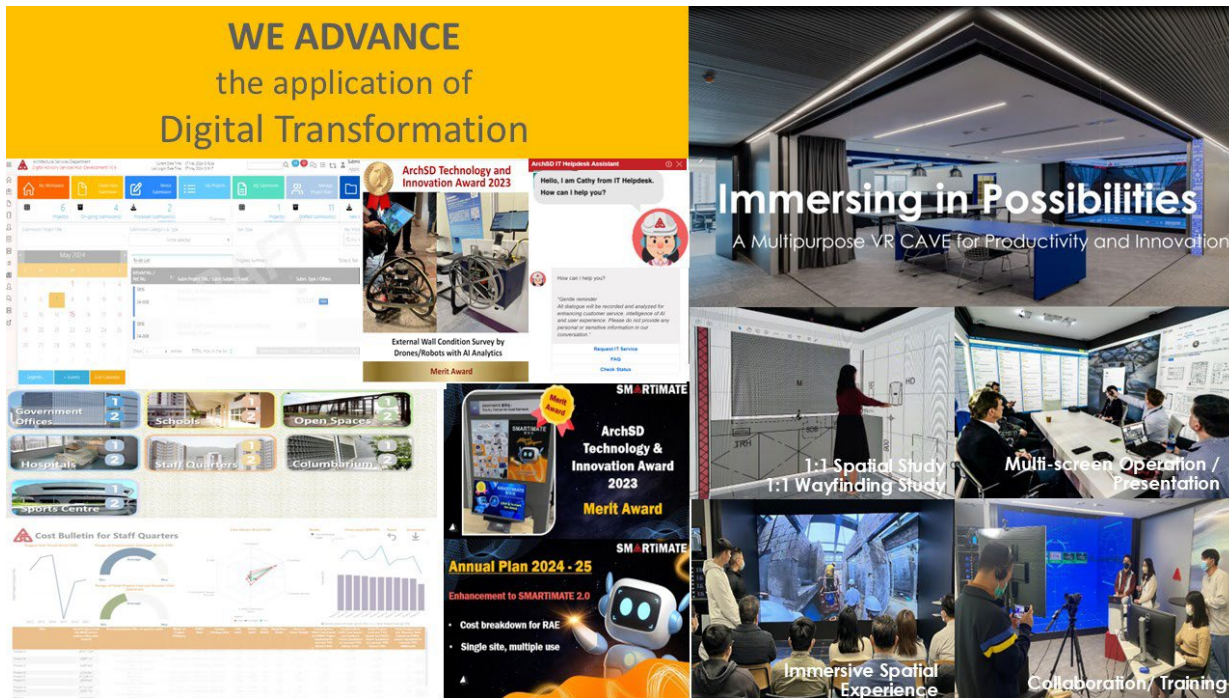
The airport business of today – and increasingly so of tomorrow – is about services and innovation, which are largely driven by developments in technology. Under its Smart Airport City strategy, HKIA has invested in new technologies to enhance services and operational efficiency.

Destination:

As leading airports around the world all vie to become destinations in themselves, HKIA's proposition is to become a SKYCITY – an integrated development comprising retail, dining, entertainment, offices as well as hotels, which forms an integral part of the Smart Airport City.

GOLD





Introduction of the Organisation

Driven by a commitment to building a better Hong Kong, Architectural Services Department (ArchSD) with core belief “We Build Our City. We Build Your Dream”, has proactively explored new horizons in digital construction and public facilities since 1986. We are responsible for the development, upkeep and monitoring & advisory of government-owned and government-funded facilities, ensuring they meet the evolving needs of our community. With our dedicated team of over 2,000 staff, we embrace innovation and sustainability as core principles.

1. Embracing Innovation and Sustainable Environment: We believe in harnessing collective wisdom and cutting-edge technologies to deliver exceptional results while championing a sustainable future. Our commitment to pioneering solutions ensures we consistently surpass industry standards, creating a vibrant, resilient, and low-carbon built environment.

2. Leading the Digital Transformation in Construction: Embracing the “Construction 2.0” and “Smart

City” vision, we actively champion “Collaborative Innovation”. Since 2018 our strategic focus on “Corporate Intelligence”(CO-i) has been instrumental in driving digital transformation within the construction industry. We established Innovative Construction Focus Group (ICFG), empowering our project teams to explore and adopt innovative construction solutions that pave the way for a more efficient, sustainable and technologically advanced future.

3. Empowering Innovation through Collaboration: We actively collaborate with consultants, contractors, technology companies, institutions, and start-ups to explore, develop and implement cutting-edge digital solutions. This collaborative ecosystem allows us to leverage diverse expertise, rapidly prototype innovative technologies, and efficiently deploy them within the construction industry.

ArchSD stands at the forefront of digital construction in Hong Kong, leveraging technology to deliver a brighter and more sustainable future for our city and beyond.

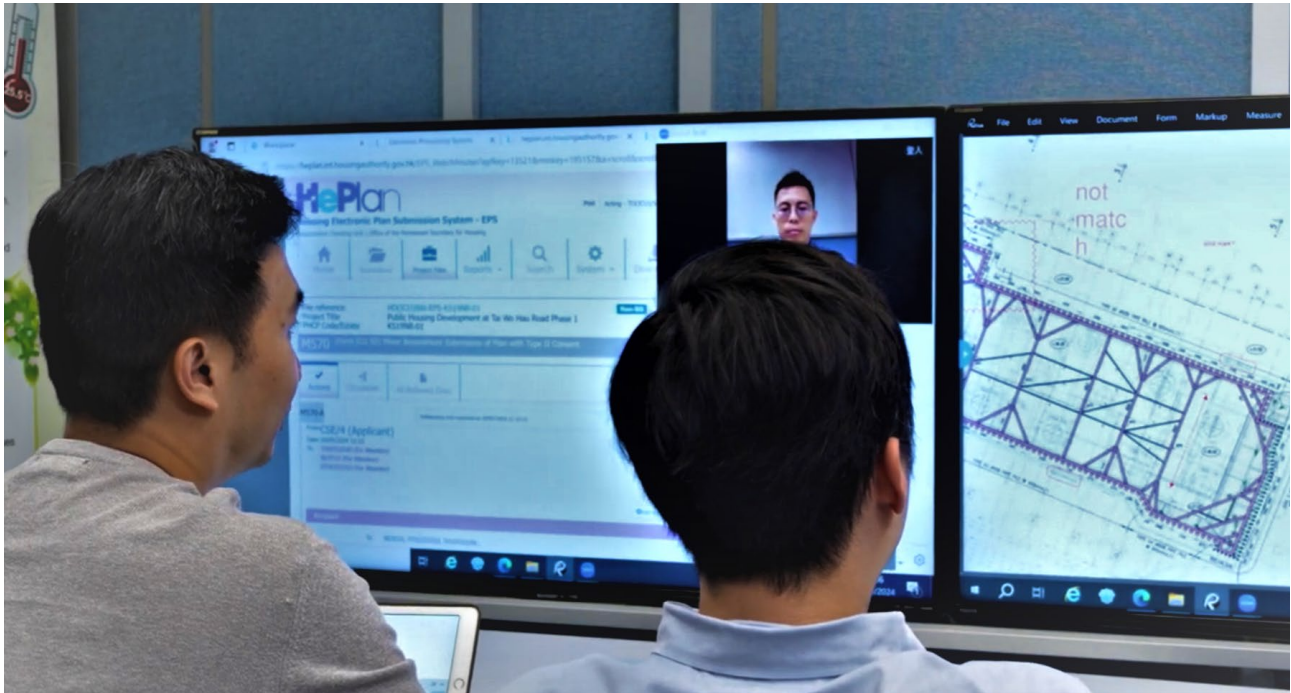
GOLD



Digital Transformation - A Journey from Scratch to Infinity (Independent Checking Unit, Office of the Permanent Secretary for Housing, Housing Bureau)



中華人民共和國香港特別行政區政府
房屋局
Housing Bureau
The Government of the Hong Kong Special Administrative Region
of the People's Republic of China



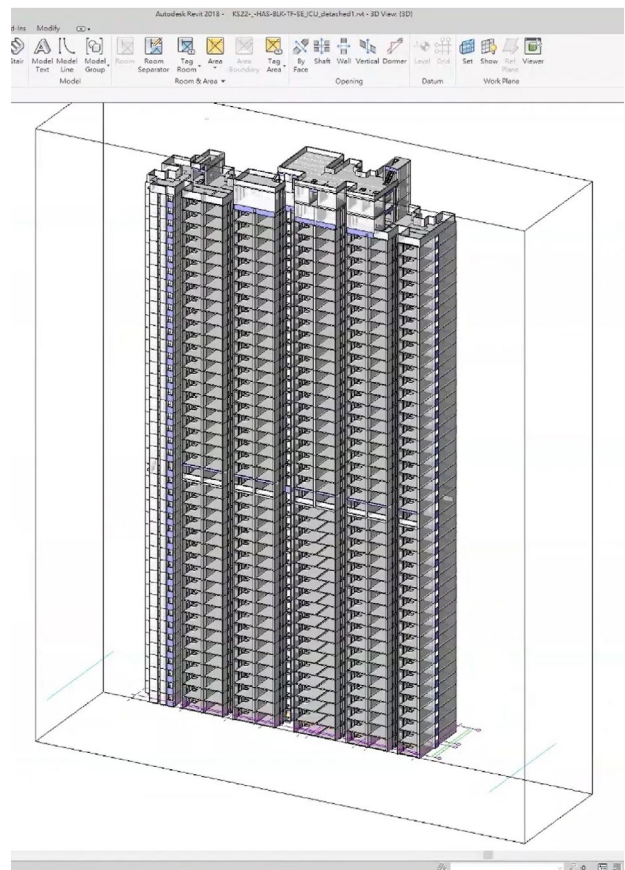
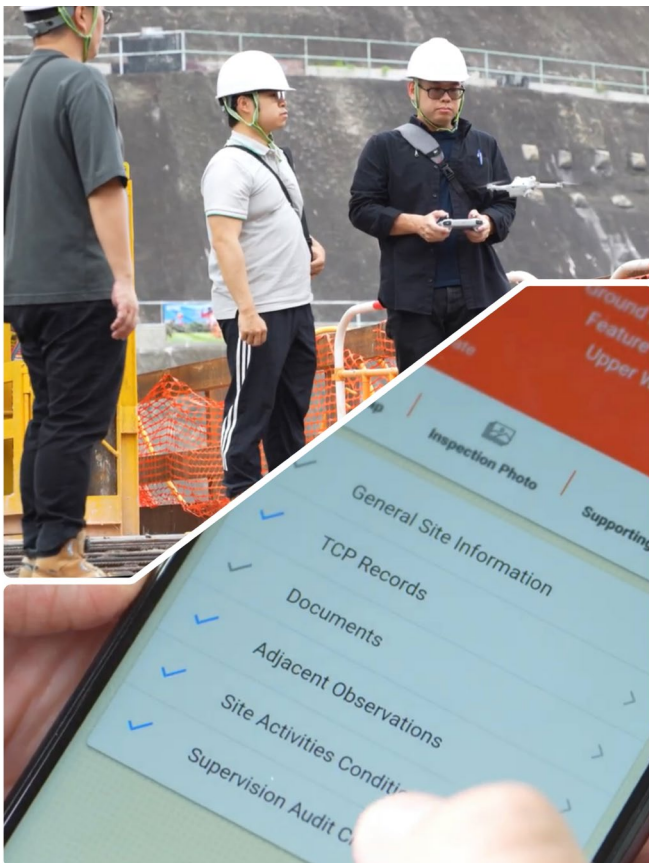
Introduction of the Organisation

The Independent Checking Unit (ICU) works directly under the Office of the Permanent Secretary for Housing. ICU exercises statutory building control to properties developed by the Hong Kong Housing Authority (HA) that have been sold or divested and HA's new development works in accordance with the Buildings Ordinance and the policies and guidelines of the Building Authority.

ICU has all along been committed to leveraging advanced technology to enhance quality assurance and efficiency of building controls at all fronts. We launched Hong Kong's first digital platform for submission and approval, "HePlan", and developed our BIM tools to assist vetting. More than 100,000 public housing units have been benefited. For site supervision, we have developed digital system "ICUSMS" and made use of drone to conduct site inspections. For construction material control, we have launched Hong Kong's first AI-powered automatic checking system, "HeCheck", to check construction material test reports. More than 100,000 test reports have been processed.

To further enhance our services, we are developing an AI-powered big data system to enhance our New Quality Productive Forces with a view to meeting the challenges of public housing production.

BRONZE



MTR Capital Works



Introduction of the Organisation

MTR was established and exists today to Keep Cities Moving.

Through our transportation network and property developments, we enable cities and their people to move forward and make progress. And through fulfilling our purpose, we create long-term sustainable value for all stakeholders - our customers, employees, our supply chain and the community.

MTR makes encounters happen and rendezvous for a more connected tomorrow. As a recognised world-class operator of sustainable rail transport services, we are a leader in safety, reliability, customer service and efficiency.

MTR has extensive end-to-end railway expertise with more than 40 years of railway projects experience from design to planning and construction through to commissioning, maintenance and operations. Going beyond railway delivery and operation, MTR also creates and manages dynamic communities around

its network through seamless integration of rail, commercial and property development.

With more than 40,000 dedicated staff, MTR carries over 13 million passenger journeys worldwide every weekday in HKSARG, the United Kingdom, Sweden, Australia and Mainland China. Together, we Go Smart and Go Beyond.

BRONZE



Urban Renewal Authority - Digital Construction Management Platform



Introduction of the Organisation

The Urban Renewal Authority (URA) was established in May 2001 under the Urban Renewal Authority Ordinance as the statutory body to undertake, encourage, promote and facilitate urban renewal of Hong Kong, with a view to addressing the problem of urban decay and improving the living conditions of residents in old districts.

The URA follows the guidelines set out in the Government's Urban Renewal Strategy in the implementation of its urban renewal initiatives under a "people first, district-based, public participatory" approach. The URA adopts a comprehensive and holistic approach by ways of its two core businesses i.e. Redevelopment and Rehabilitation, as well as Reservation, Revitalisation and Retrofitting (the 5R business strategy), for creating a sustainable and quality living environment for the people of Hong Kong.

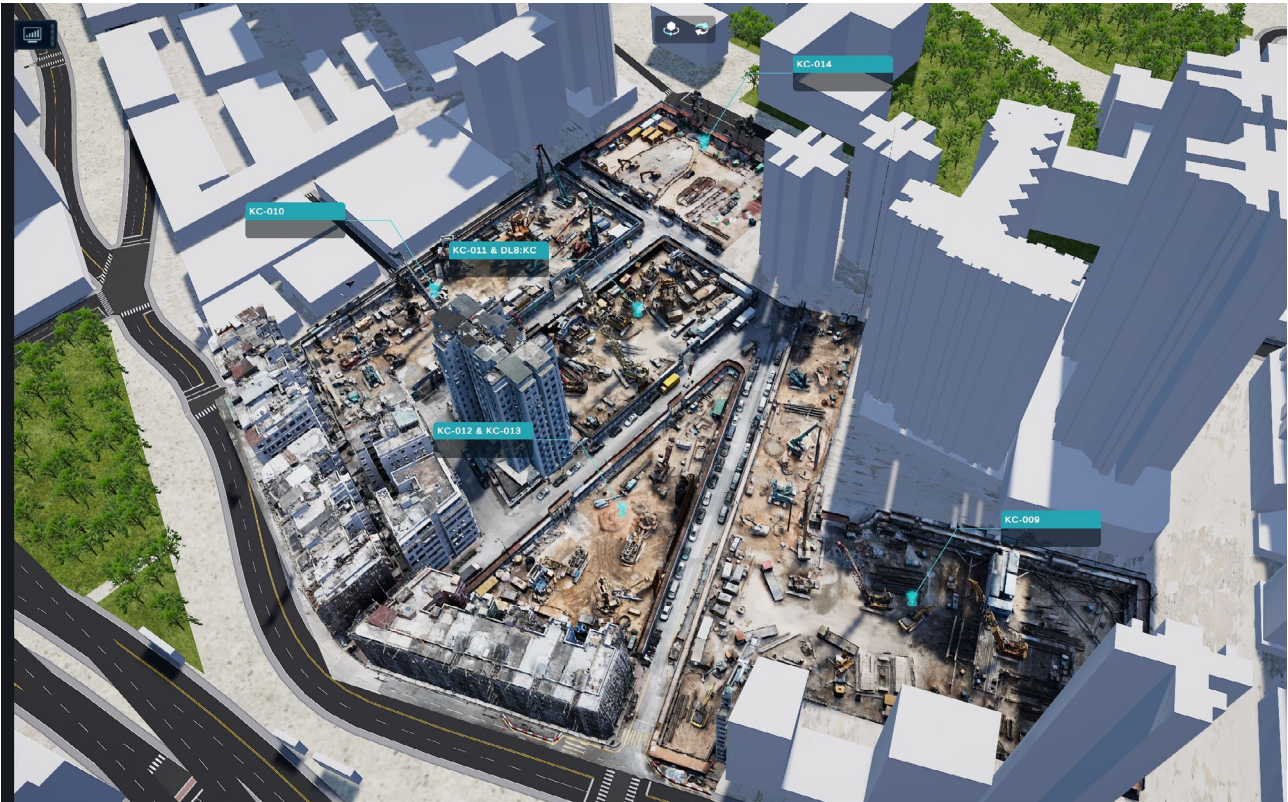
The URA is dedicated to creating quality and vibrant urban living in Hong Kong, striving to make it a better home in a world-class city, guided by six core values:

People-oriented, Teamwork, Leadership, Innovation, Accountability, and Value-aspiration.

Innovation, in particular, drives URA's digitalisation efforts, leading to the adoption of advanced digital tools and solutions that streamline business processes, promote digital transformation, enhance talent development and foster collaborations across relevant industries.

By embracing innovative technologies, the URA ensures that its urban renewal initiatives are efficient, compliant, and beneficial to the community, aiming to achieve our targets in various areas of work to make significant headway in the development of urban renewal.

BRONZE



Wed 26 Jun 2024 10:46 0° 30°C 80% 0min

KCAA1 Search Site

市區管理處 URBAN RENEWAL AUTHORITY

KC-009 NOISE HEATMAP

Source from sensors at site

PM2.5 24 µg/m³ PM10 38.4 µg/m³

454 Alerts 30 days

| TIME ↓ | SENSOR | ALERT |
|-----------------------|--------|-------------------------|
| 09:09 | 0003 | PM2.5: 54 |
| June 25, 2024 5:59 PM | 0003 | PM2.5: 63 |
| June 25, 2024 4:39 PM | 0004 | PM2.5: 112, PM10: 148.8 |
| June 25, 2024 4:19 PM | 0004 | PM2.5: 73 |
| June 25, 2024 3:19 PM | 0004 | PM2.5: 59 |
| June 25, 2024 | 0004 | PM2.5: 103 |

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ENVIRONMENTAL DATA

Date Range: Start Date 2023-12-01, End Date 2023-12-15

PM 2.5 (µg/m³) Threshold: 50

PM 10 (µg/m³) Threshold: 80

Noise (dB) Threshold: 70

A 3D map showing the sensor locations and environmental data. The map is color-coded by noise levels, with a legend indicating noise levels in dB. The map also shows the locations of the sensors and the surrounding buildings and roads.

Nan Fung Development Limited



Introduction of the Organisation

Nan Fung Development Limited is a subsidiary of the Nan Fung Group, one of the largest privately held conglomerates in Hong Kong with global interests in real estate development and investment. Nan Fung holds a well-diversified and substantial financial investment portfolio. The Group was founded in 1954 and has a track record spanning more than 50 years with over 170 projects including residential, commercial, and industrial buildings. The Group also strategically focuses on first-tier cities in mainland China and recognises attractive opportunities for development and investment overseas, including New York and London.

The Group's flagship commercial development AIRSIDE, opened in Q3 2023, is a Grade A office and retail development located in the heart of the former Kai Tak Airport site, showcasing the great potential of the government's initiative for Central Business District (CBD) 2.0.

SILVER



A Leader in Construction Digitalisation (Private Sector)



嘉里建設有限公司
KERRY PROPERTIES LIMITED



Introduction of the Organisation

Kerry Properties Limited (KPL), listed on The Stock Exchange of Hong Kong Limited (Stock code 683) since 1996, has been a vanguard in property investment and development in Hong Kong since 1978. As a world-class property company with significant investments in Mainland China and Hong Kong, it is a constituent stock in the Hang Seng Composite Index, Hang Seng Composite MidCap Index, and Hang Seng Composite Industry Index (Properties & Construction). Kerry Properties is lauded for its commitment to sustainability, evidenced by its highest 5-Star Rating from the Global Real Estate Sustainability Benchmark (GRESB) and its inclusion in the FTSE4Good Index Series, Hang Seng Corporate Sustainability Index Series, and Hang Seng ESG 50 Index.

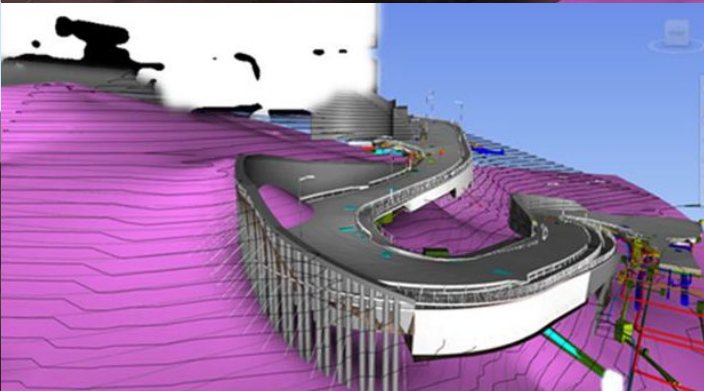
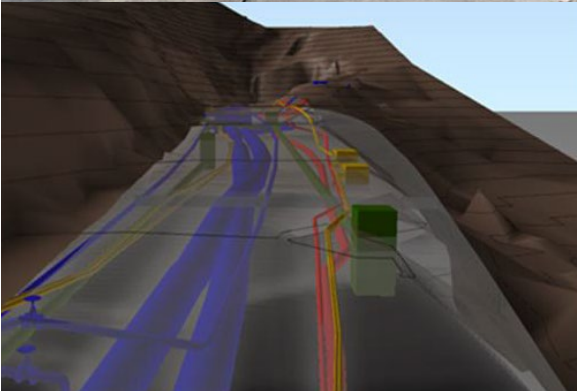
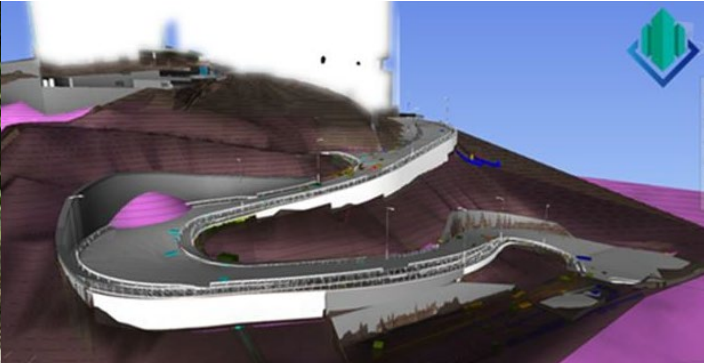
The company's pioneering spirit extends to the HK construction industry, where it leads with a dedicated in-house digital team to explore and develop all possible digital solutions to enhance the efficiency in both management & operation, cost saving through risk management, and continuous people development.

KPL's innovative approach is showcased in projects like Mont Verra, La Marina, and La Montagne, highlighting its digital prowess and commitment.

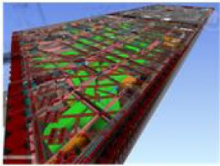
KPL set an industry benchmark in 2018 by adopting a full BIM process for a private development project, demonstrating its vision to lead the private sector in digitalisation. This initiative underscores the company's digital capabilities and its role as a trailblazer in the construction industry.

With its strong vision and history of innovation, KPL stands as a prime candidate for exemplifying its dedication to advancing the industry through digital technology.

SILVER



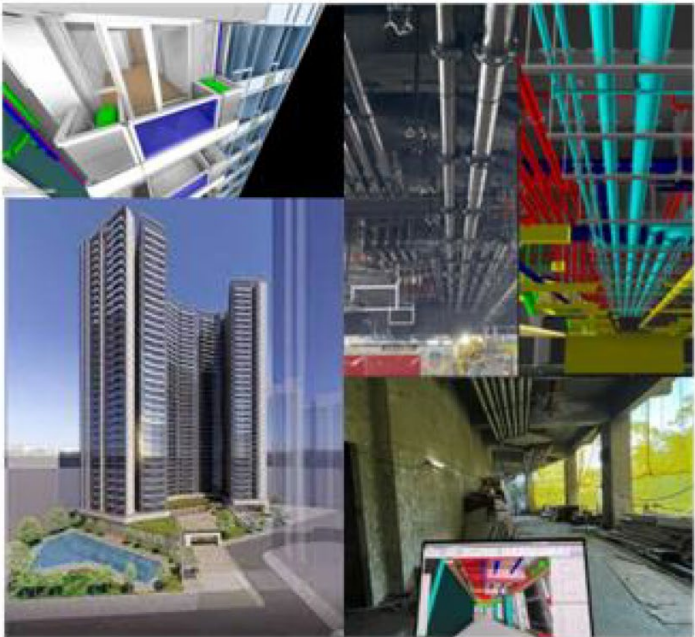
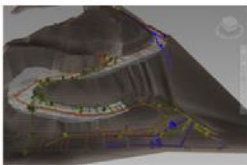
2021 Proposed Composite Redevelopment at Hung Fook Street / Ngan Hon Street



2022 Proposed Residential Redevelopment at Hill Road

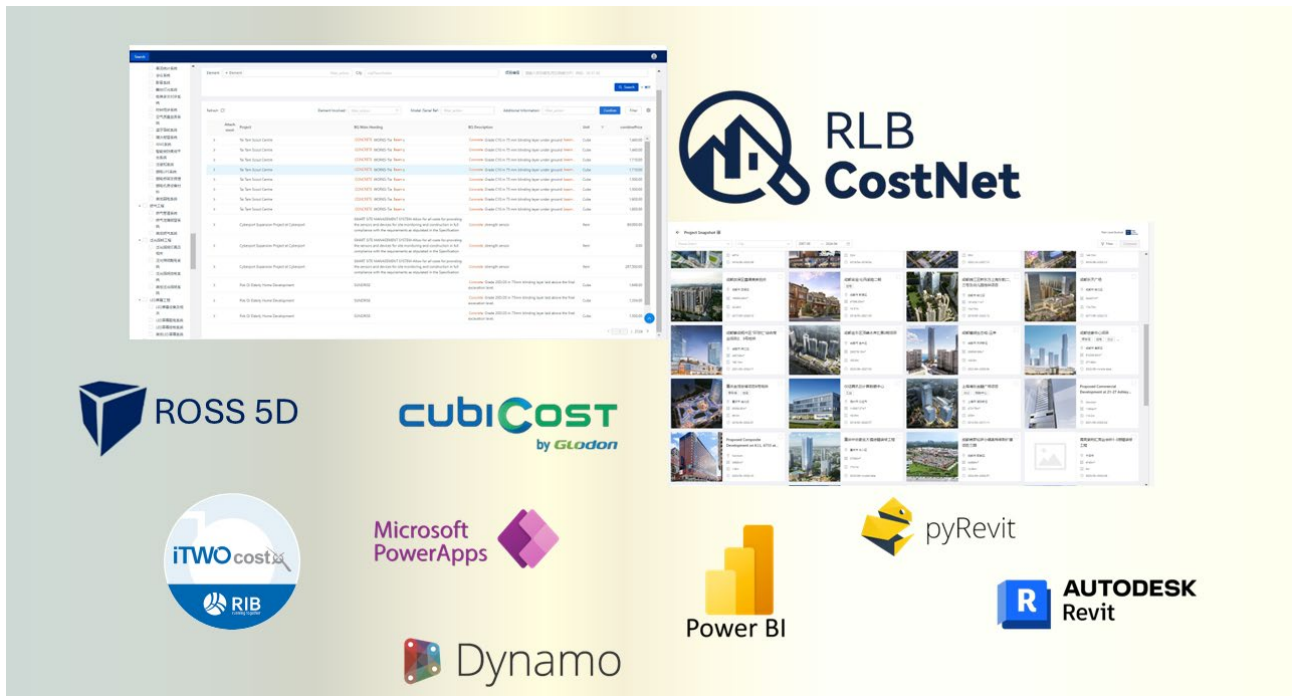


2023 Proposed Residential Development at Po Fung Road



2019 - La Montagne Full BIM Adoption + CDE

Rider Levett Bucknall Limited



Introduction of the Organisation

Rider Levett Bucknall Limited (RLB) is a prominent global quantity surveying consultancy with a rich history that dating back to its establishment in Hong Kong in 1962. Over the years, RLB has evolved into one of the largest independent professional QS firms worldwide, employing over 4,000 people across 120+ offices in various countries.

RLB's 1,500 strong team in Asia Pacific, including Mainland China, Macau, and South Korea, has 400 staff in the Hong Kong office. The firm specialises in providing comprehensive cost consultancy services, offering expertise and support across a diverse range of sectors, from residential and public housing to healthcare, education, commercial, retail, industrial, entertainment, and community infrastructure projects. The quality and success of RLB's projects have earned widespread recognition and prestigious accolades within the industry.

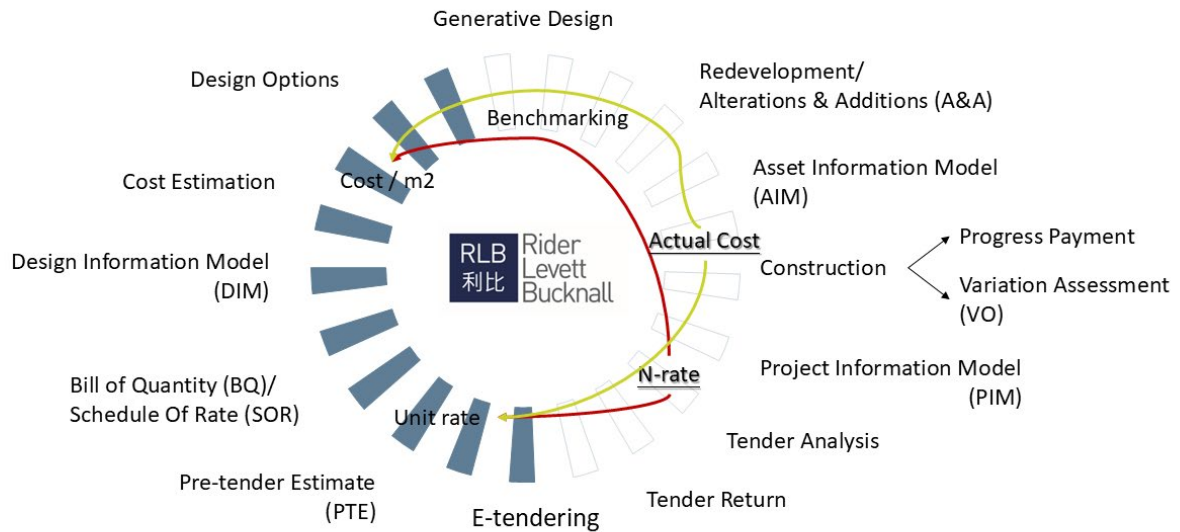
One of RLB's core objectives is to solidify its position as the undisputed global leader in construction cost

and advisory consultancies. To achieve this, the firm actively engages in industry initiatives, holds influential roles in professional institutions, contributes to public consultations, and publishes thought-leadership articles. RLB believes in sharing our knowledge and insights to foster industry growth and drive innovation within the QS profession.

As a pioneer in promoting 5D Building Information Modelling (BIM), RLB has been at the forefront of leveraging BIM technologies and implementing digital tools in projects locally and globally to date. RLB takes pride in being the first QS Consultant in Hong Kong to achieve ISO19650 certification in BIM for design, construction and commissioning.

GOLD

5D BIM IN FULL LIFE CYCLE



CONSTRUCTION INDUSTRY COUNCIL
建造業議會

CIC Construction Digitalisation Award
建造業議會數碼化大獎

Organisation Category - Consultant Bronze

Rider Levett Bucknall Limited

RLB 利比

Established in 1962, Rider Levett Bucknall Limited (RLB) has grown with the economic expansion of Hong Kong until today it is one of the largest independent global professional practices with about 4,000 people operating from more than 120 offices. We offer a full spectrum of professional services ranging from cost consultancy and quantity surveying to project management and advisory professional services. We always strive to create value through achieving our clients' goals using the highest professional standard. We are committed to continual research and development, with digital transformation being our foremost objective in recent years.

Launched in Nov-2020, RLB 5D BIM Standards share professional knowledge and expertise for all stakeholders in the industry.

RLB 5D BIM STANDARDS FOR USE IN HONG KONG

CIC Construction Digitalisation Award Presentation Ceremony
建造業議會數碼化大獎頒獎典禮 2021



HKIBIM AWARDS

Certificate of Grand Award
Private Development Projects

is awarded in the high standard recognition of BIM performance of
Proposed Eastern District Advanced Medical Centre
at 3 A Kung Ngam Village Road, Shau Kei Wan

Project Owner:
Hong Kong Sanatorium & Hospital

Contributors:
Yau Lee Building Construction & Decoration Co., Ltd.
Yau Lee Construction Management Co., Ltd.
Global Virtual Design and Construction Limited
Rider Levett Bucknall Limited
Visoft Technologies Company Limited

Mt Siwon Ng
Chairman, HKIBIM

2023

CELEBRATION OF BIM ACHIEVEMENT 2022
建築信息模擬成就嘉許禮

Rider Levett Bucknall Limited

BIM Organisations 2022



Introduction of the Organisation

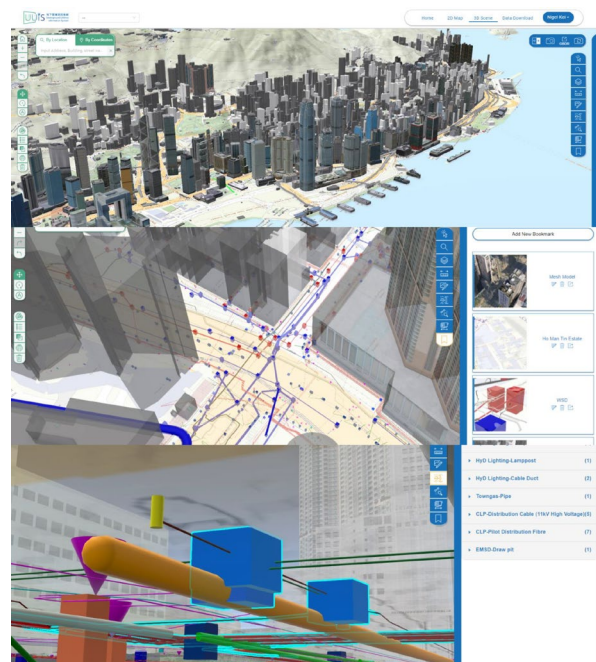
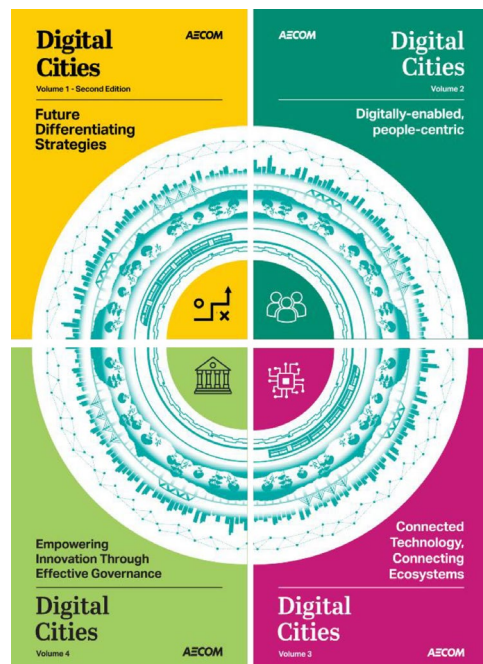
AECOM is the world’s trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from advisory, planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical and digital expertise, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of USD\$14.4 billion in fiscal year 2023.

Digital AECOM as a specialty team brings together the potential of AECOM’s digital technologies to deliver a better world. With a team of over 2,000 digital practitioners, Digital AECOM is transforming the way we do business by developing an expanding ecosystem of tools, systems and processes. Combining our leading

industry knowledge with digital consulting services and products, we define, develop, and implement personalised – and even disruptive – solutions for clients to help them achieve better outcomes.

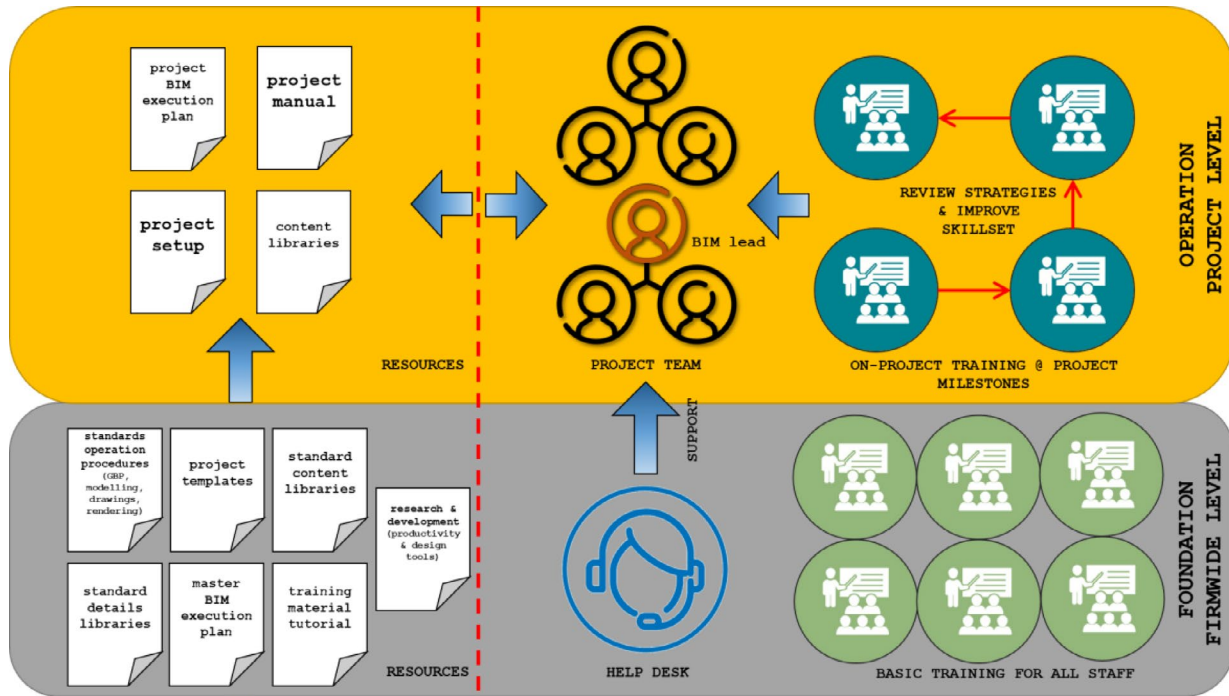
Our digital capability is widely recognised by the industry. Recently, AECOM received the Grand Award in the Hong Kong openBIM / openGIS Awards 2024 organised by HKABAEIMA and the Hong Kong Chapter of buildingSMART International. AECOM was also one of the award winners of the CIC Construction Digitalisation Award in 2021.

SILVER



TFP Farrells Limited

FARRELLS



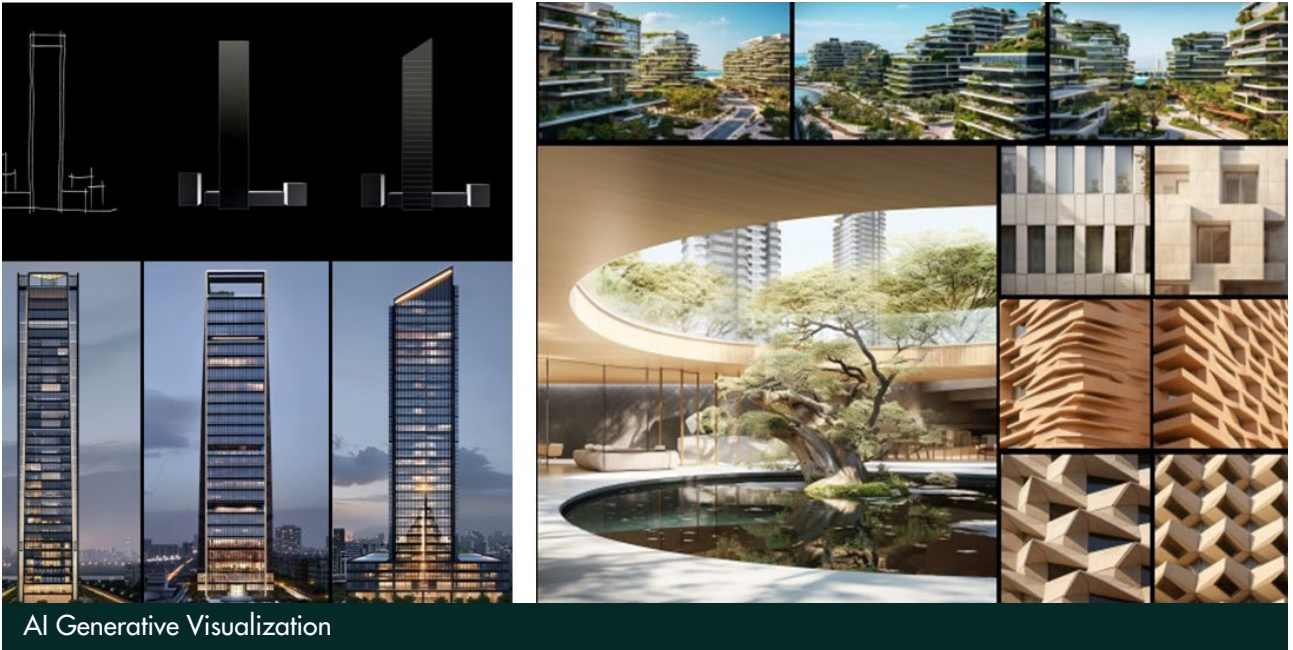
Introduction of the Organisation

Farrells is an international firm of architects, urban planners and designers, founded in 1965 by Sir Terry Farrell, an architect-planner and a leading proponent of urbanism. With offices in London, Hong Kong, and Shanghai, the firm is a group of diverse talent that has delivered a broad range of projects worldwide. Our international studios combine urban planning, architecture, and design, providing end-to-end services for projects of all sizes and industries, from concept to completion. The Farrells approach to design draws upon a 60-year heritage of leadership within the built environment industry to create places that work for the people who use them, the environment and investors. We put people at the heart of our goal to create places that truly make a difference in how people live their lives. Our projects are renowned for their ability to capture the unique essence of their surroundings, opening up new possibilities for all those involved. From London's Chelsea Waterfront and Vauxhall Cross to Korea's Incheon Airport GTC, Cambodia's Vattanac Capital, Beijing's China Zun, and Shenzhen's KK100 and One Excellence, to the recent M+ Museum in Hong

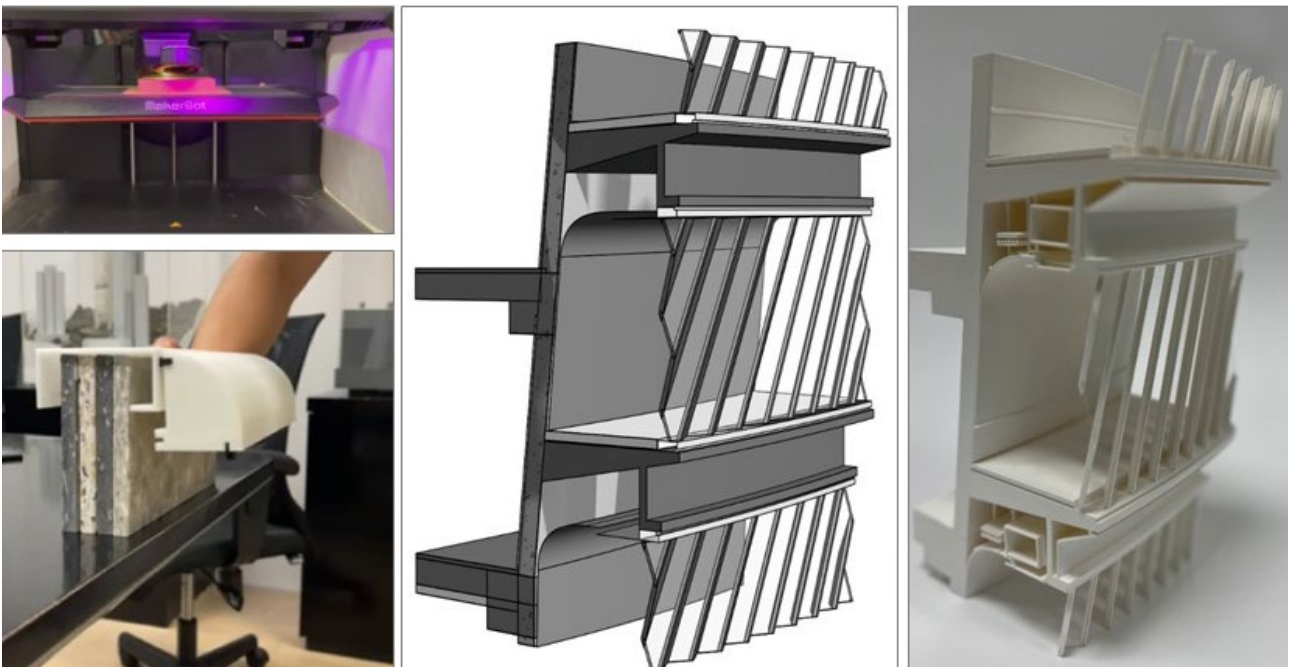
Kong, Kwai Chung Hospital Redevelopment, District Court Building, our work spans the globe. We are dedicated to creating truly transformative architecture with innovative practice that fosters sustainable connections between people, community, and the environment.

In Farrells' projects, diverse stakeholders comprising clients, end-users, designers, consultants, and contractors are engaged in ongoing coordination. This collaboration necessitates the management and continuous updating of a significant volume of building data, making the efficiency of decision-making, as well as accuracy, consistency, and productivity, essential for the successful delivery of projects. To address the growing demand for digital solutions and to enhance our leadership, Farrells has been developing our capabilities in digitalisation, including streamlining the design process through the use of various tools and platforms, integrating design and production via intelligent workflows, and establishing an in-house R&D team to facilitate knowledge exchange and adaptation.

BRONZE



AI Generative Visualization



BIM Model to 3D Printing

Gammon Construction Limited



Introduction of the Organisation

Gammon Construction Limited is a leading construction company in Hong Kong, with further operations in Singapore and mainland China. Our integrated business focuses on civil, building, foundations, electrical and mechanical, facades and interiors works and design, and our construction services division provides considerable plant, steel fabrication and concrete production capabilities. We have a strong building and information modelling department and a digital entity dedicated to furthering the commercial opportunities of our own innovations, as well as those of start-ups, specialist groups and universities.

With an annual turnover of more than US\$3 billion, we employ almost 8,000 staff. Backed by two major international companies, Jardine Matheson and Balfour Beatty, we combine local expertise and global resources as we build Asia's 21st century infrastructure.

Our mission is to build for a better quality of life and living environment in a safe and sustainable manner. Our vision is to be the smart and digital contractor of choice in Hong Kong, China and Southeast Asia.

Our goal is to deliver a high level of quality to our customers. In this, we mean not only the quality of our built products and service outcomes, but also in the way they are delivered: reliably, safely and responsibly. We believe we can best deliver the level of quality to which we aspire by concentrating on our three core values of Safety, Integrity, and Excellence.

GOLD



China State Construction Engineering



TRANSCENDENCE



Introduction of the Organisation

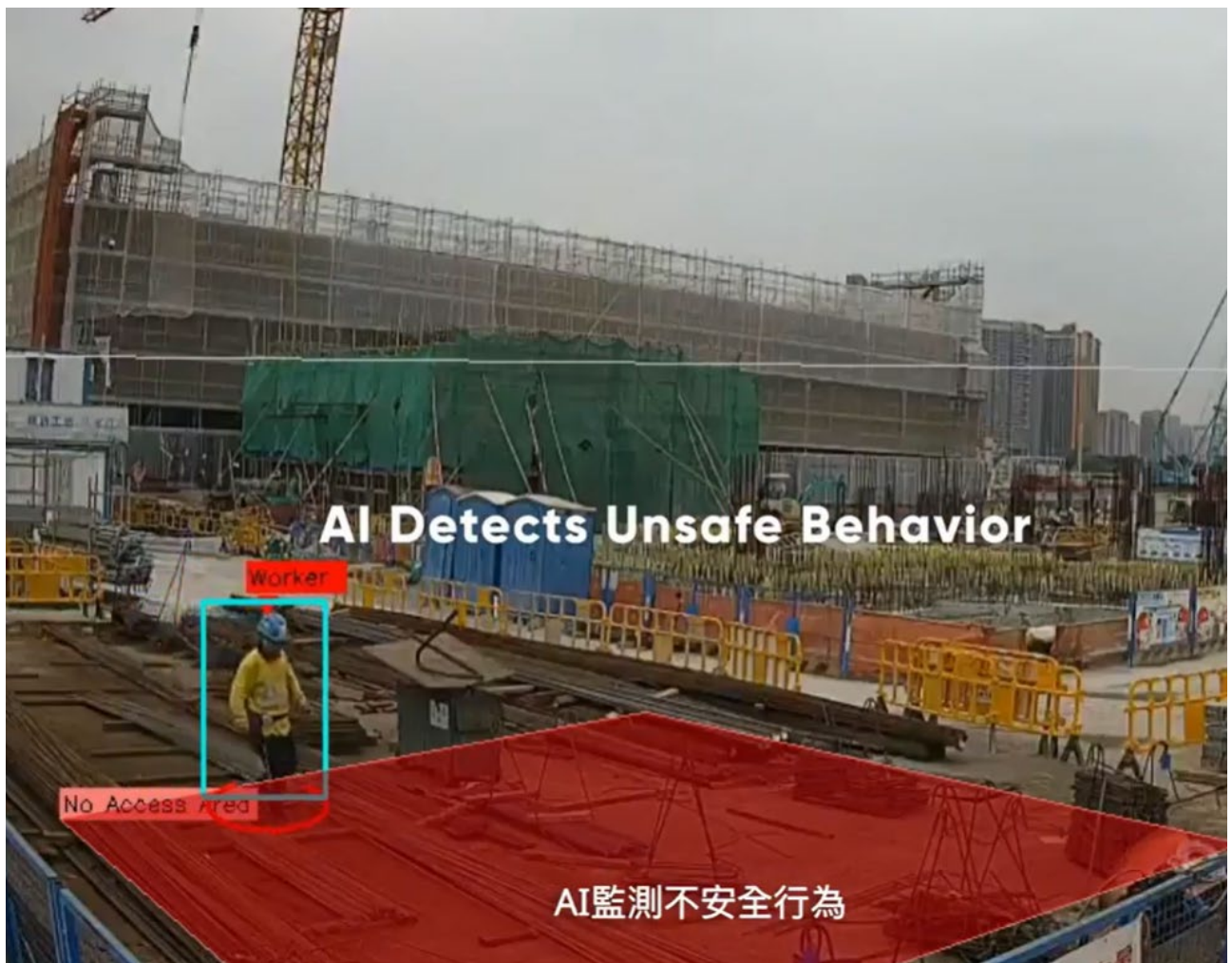
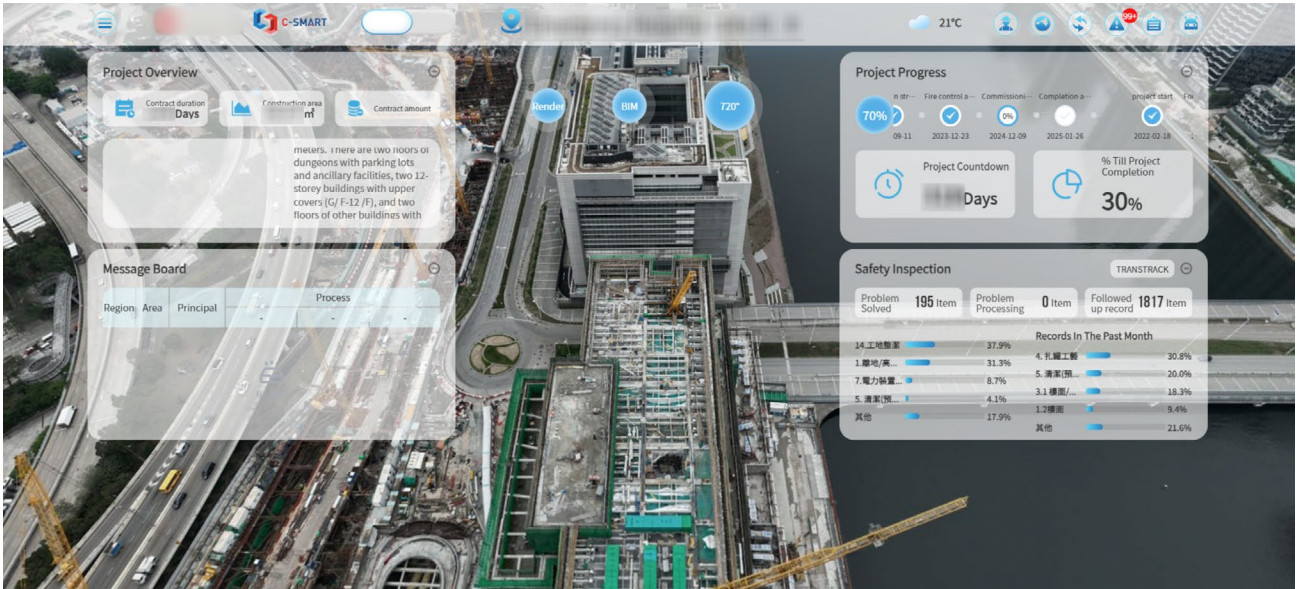
Established in 2014, Transcendence aims to revolutionise the construction industry through innovative technologies. The company has developed the “All-in-one Smart Construction Management Platform” in 2020, which utilises cutting-edge technologies such as IoT, AI, cloud computing, and BIM. This comprehensive platform offers customised solutions for smart construction sites, optimising management and decision-making processes, improving operational efficiency, and enabling intelligent and digital construction site management.

Transcendence has successfully implemented C-SMART All-in-one Smart Construction Management Platform across Hong Kong, Mainland China, and Macau. This platform has been deployed in various projects, such as Hong Kong Temporary Hospital, Shenzhen International Hotel, 8 community isolation facilities, Hong Kong Palace Museum, Tseung Kwan O Desalination Plant, and O · PARK2. Transcendence has developed a safety system that fully meets the HKSAR government Smart Site Safety System (4S) requirements. This system has

been incorporated into the implementation plan in certain areas of the market.

In addition to transforming construction site operations, Transcendence also aims to digitalise internal administration and business processes. By leveraging the latest digital tools and automation, the company seeks to streamline its own administrative workflows, enhance data-driven decision making, and drive greater efficiency throughout its organisation.

SILVER



Leighton Contractors (Asia) Limited



50 year journey in Asia



Introduction of the Organisation

Established in 1974, this year marks Leighton Asia's 50th Anniversary. Leighton Asia has been at the forefront of high-profile infrastructure projects throughout Asia. As a member of CIMIC Group, a family of industry leaders proven across diverse disciplines, sectors and environments. We operate in Hong Kong and six other regions in Asia.

Over these five decades, our landmark projects in Hong Kong, ranging from rail and road infrastructure to boundary control facilities and healthcare facilities, have driven Hong Kong's economic and social development.

Leighton Asia has a dedicated Information Systems and Digital department, under which there are various discipline streams which focus on different aspects of digitalisation. First, the Digital stream includes Digital Construction, which focuses on the development of Digital Engineering expertise such as Building Information Modelling (BIM), along with the use of innovative digital technology and its integration into

our core services. For the Information Systems stream, this includes traditional IT services, along with the development and integration of digital systems and platforms into the business.

Importantly, these organisational streams are also reflected in our project organisation plans to ensure consistency across our projects.

BRONZE



Varadise Limited



Sharing by Varadise's CEO at World Economic Forum -
Introducing HK's Successful Digitalisation Case to the International Arena

Introduction of the Organisation

Varadise Limited is a pioneer in digital engineering, leading the charge towards smart city innovation in the built environment. As a comprehensive digital transformation consultant for Construction, Facility, and City Data Management, we leverage state-of-the-art digital twin technology and analytics intelligence to transform interactions with and manage physical environments.

By integrating real-time and historical data insights, we offer a predictive perspective for managing the life-cycle of assets and infrastructures. In partnership with Varadise Limited, we empower our clients to gain a competitive edge through comprehensive digital transformation strategies. These strategies are founded on informed decision-making and optimal resource management, enabling our clients to build a smarter, more connected, resilient, and sustainable environment for a thriving future.

SMALL AND MEDIUM ENTERPRISE (SME)

GOLD



CDE as the Smart Construction Platform - Empowering our client on the digitalisation journey



Janus Services Limited

Janus

BIM Service

ISO 19650
CCBM, CCBC, HKIBIM

- BIM Execution Plan
- Design Authoring and Reviews
- Existing Conditions Modeling
- 3D Coordination
- Cost Estimation (5D)
- Engineering Analysis
- Sustainability Evaluation
- Phase Planning
- Digital Fabrication
- Site Utilization Planning
- 3D Control and Planning
- As-built Modeling
- Maintenance Scheduling
- Asset Management
- Drawing Generation
- BIM Object
- Standard Approach of Modeling







Janus

Introduction of the Organisation

Janus Services Limited (Janus) is a subsidiary of SOCAM Development Limited and was established as a digital builder in late 2021. Founded to seize the pivotal business opportunity, we recognise the immense potential of digital technology to transform the construction and real estate (CRE) sectors.

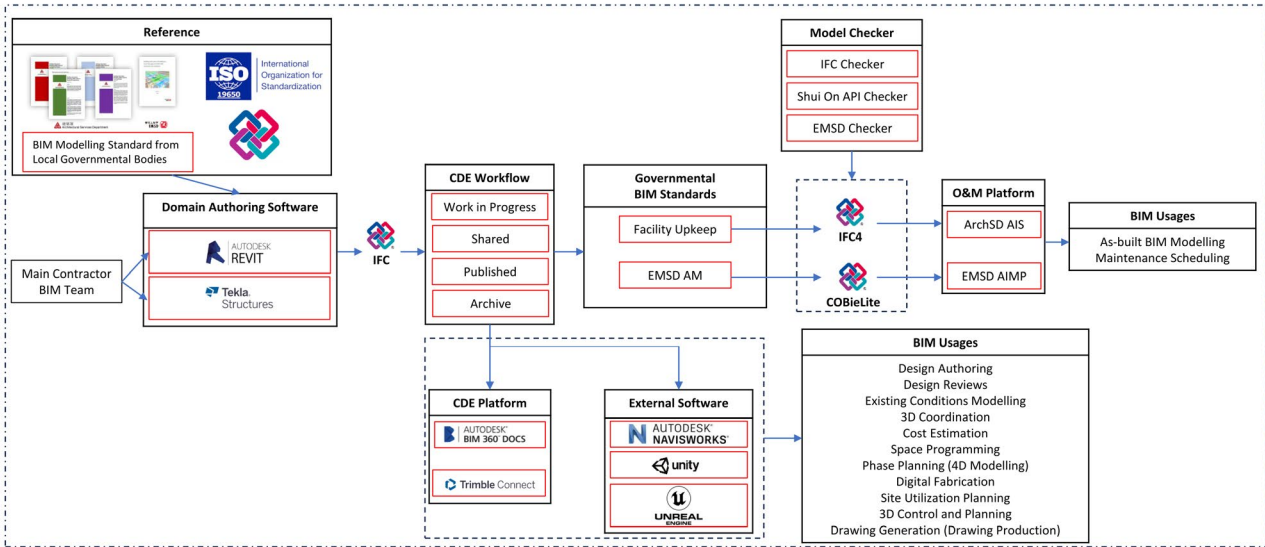
Assembling a diverse team of construction and IT experts, Janus is well-positioned to address long-standing industry pain points. We firmly believe that strategically applying innovations and digital solutions will improve efficiency, collaboration, and overall project management, from design and construction to facility operations.

Janus aims to transform the built environment by leveraging innovative technologies. Our mission is to introduce transformative digital tools that enhance project optimisation, industry health and safety, and environmental sustainability, all of which are critical for the sustainable development of the CRE industry. By integrating data analytics, automation, and

collaborative platforms, our comprehensive approach streamlines workflows, enhances decision-making, and fosters greater transparency by eliminating uncertainties. Janus is committed to empowering industry stakeholders, ranging from workers to professionals, by making their processes easier, safer, and more efficient through technological innovation.

SILVER

OpenBIM & CDE – Ecosystem and Process Map



Janus

Smart Site Safety System (4S)

For capital works contracts with an estimated contract sum exceeding \$30 million and with tenders invited before the date of this Circular, SSSS shall also be adopted.

- One stop shop for **10** items.
- **Extendable**, support API Integration.
- Integrate with **Progress Monitoring** Modules.



Camera



IoT Sensors

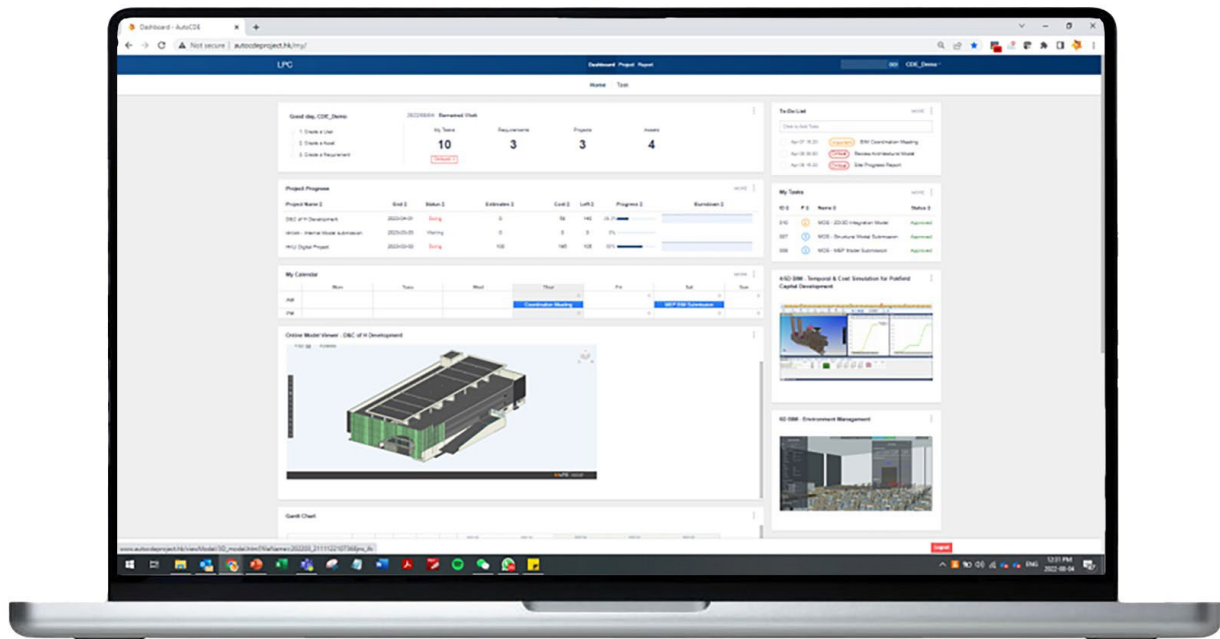


Applications



(CITF Pre-approved Product:
Janus AI Safety Monitoring)

Janus



Introduction of the Organisation

With over a decade of practical experience in the AECO industries in the UK, China and Hong Kong, Llewellyn and Partners Company Limited (LPC)'s mission is to reshape the AEC ecosystem with revolutionary products using BIM, GIS, A.I., IoT and Blockchain technologies.

Founded in 2019, we are the first potential unicorn incubated by the HKU MetaBIM Research Laboratory and a member company of Incu-Tech Programme of HKSTP that focus on the cutting-edge technologies for smart assets. Based on our R&D achievements, our unprecedented ISO-compliant products empower the industry for the new construction normal – digitalisation, standardisation, integration, and industrialisation. We offer total services in consultancy, research, platform development, carbon quantification and training. In 2021, we become the first company in the world to receive BSI Kitemark™ for BIM Software as a global recognition of achieving full compliance of ISO 19650. Our success has demonstrated in various awarded adoption projects for public and private clients.

LPC's SuperApp-AutoCDE digitises and standardises data in a variety of formats using our patented AI-BIM engine, such as 2D drawing models, laser scans,

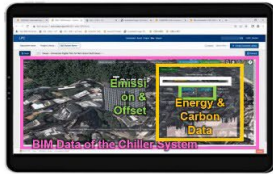
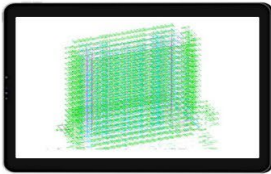
documents, PDFs, photos and Internet-of-Things data, and turns that data into three-dimensional environments incorporating BIM and GIS to form a Digital Twin. The Digital Twin can analyse carbon emissions across entire built assets and give insights based on a client's targets, in a format that is much easier to understand than 2D drawings, charts and reports.

LPC currently has its headquarters in the Hong Kong Science & Technology Park. Three other branch offices are located in the Hong Kong Cyberport, China (Shenzhen and Guangxi) and plans to expand into the APAC and UAE regions.

LPC gained international and local recognitions with 20+ awards such as Bronze in CIC Digitalization Award 2021, Geneva Silver Medal on BIM Innovation 2021, Special Mention in CIC CDE Award 2022 and Outstanding ESG Solution for Smart Cities of FinTech Award 2023 in ESG Solutions, Silver in Software and Apps, ICT Startup Award 2023 Hong Kong ICT Awards etc.

SMALL AND MEDIUM ENTERPRISE (SME)

BRONZE



TOTAL SERVICES
Standardisation and tech solutions using BIM, GIS, A.I., IoT, Blockchain



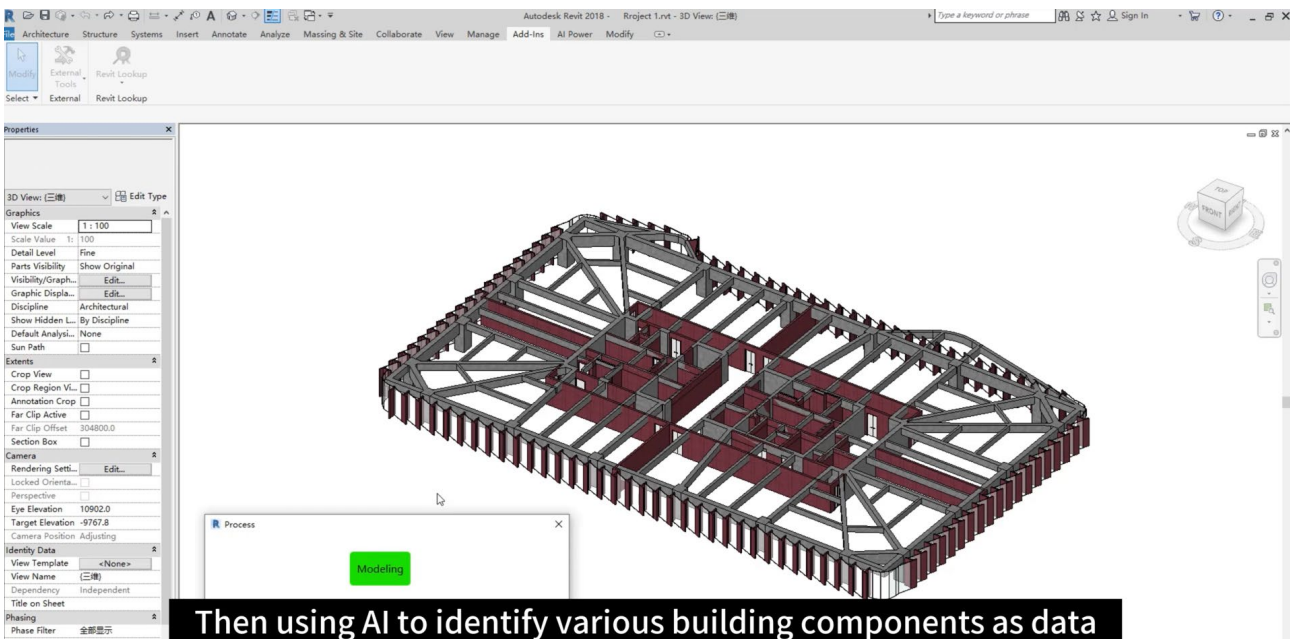
TECHNOLOGY
All-in-one smart built asset platform solution for smarter city & carbon



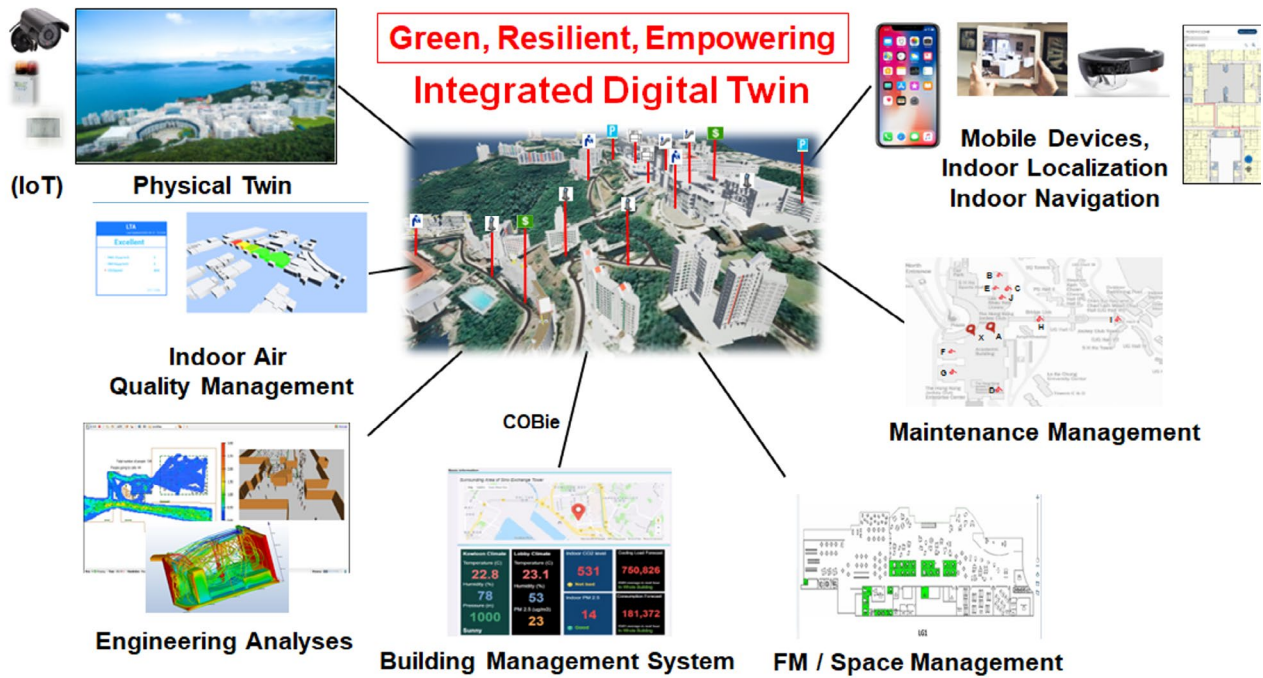
ESG
Standard-compliant carbon quantification & management



ACADEMY
Tailor-made trainings on standardisation & technology



The Hong Kong University of Science and Technology



Introduction of the Organisation

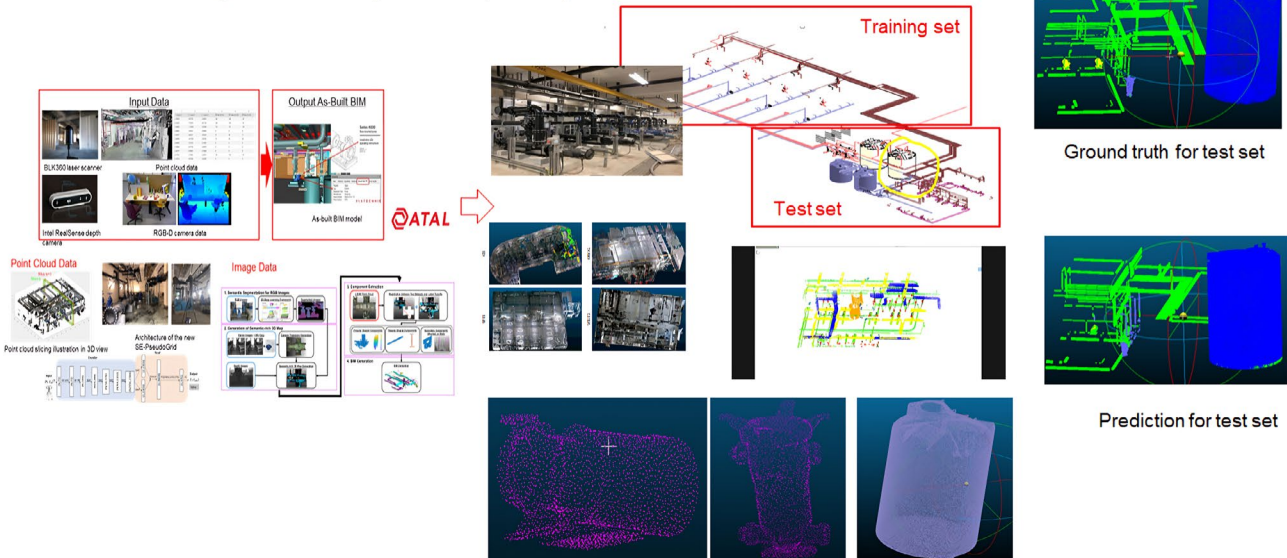
The Hong Kong University of Science and Technology is a public research university founded in 1991. It was ranked 47th in the world and second in Hong Kong by QS 2025. HKUST and its BIM Lab have been enhancing BIM-related digital innovations and applications in research, education, promotion, and institutional adoption over the past years.

Since 2019, HKUST has started the initiative to develop a digital twin for its entire campus, which serves as the core to support smart and sustainable campus at HKUST. It promotes BIM internally at an institutional level, involving different research groups, FMO, faculty members, staff, and students. The HKUST BIM Lab has conducted cutting-edge academic and applied research in many emerging scientific and technological fields, including BIM, IoT, artificial intelligence, computer vision, VR/AR, facility management, laser scanning, robotics, and blockchain. It has organised many BIM and digital construction events for the industry. By 2024, it has published over 300 international journal and conference papers in these fields. 26

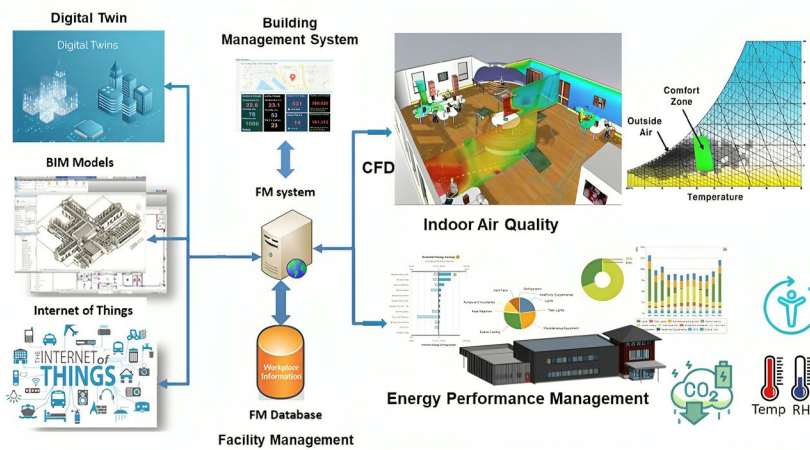
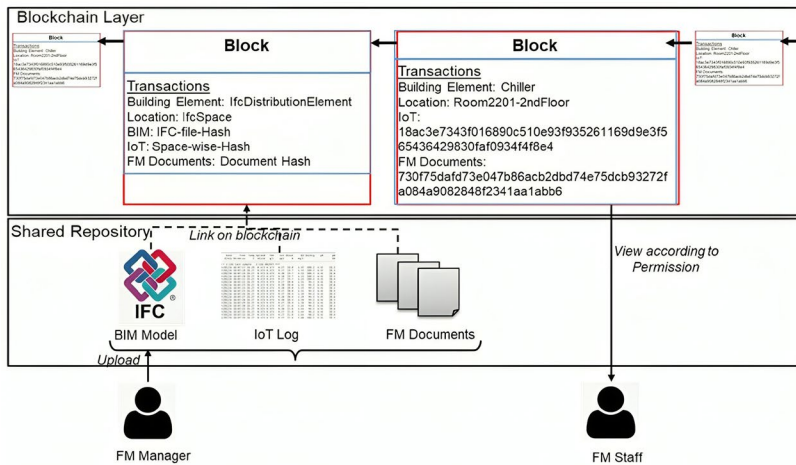
PhD graduates, 18 MPhil students, and hundreds of master students have participated in scientific research projects. Currently, there are 23 researchers, including 13 PhD students and 2 MPhil students in the HKUST BIM Lab. Furthermore, BIM and digital construction have been taught at HKUST at the postgraduate level since 2010. BIM was then introduced to the undergraduate civil engineering curriculum in a required course starting 2018. Each year, over 300 HKUST students were trained with the latest BIM and digital construction materials on both undergraduate and postgraduate levels.

GOLD

- **HKUST DT for facility management**
Scan-to-BIM Using Machine Learning and AI Deep Learning



Blockchain-enabled openCDE



Modular Integrated Construction Laboratory (MiCLab) of HKU



香港大學
THE UNIVERSITY OF HONG KONG

MiCLab INTRODUCTION

MiCLab
The University of Hong Kong

<https://www.miclab.hk>

VISION
Pursue *excellence* and *innovation* in MiC

A world-leading research laboratory to foster continuous improvements and target excellence in MiC

- Interdisciplinary & Integrated Research
Civil, Management, CS, ME, EEE, Geo, IMSE
- Gov-Industry-Uni Collaboration
Basic & Applied research
Local & Overseas
- Digitalisation for Sustainability
AI, IoT, Digital Twin, VR/AR, BIM, GIS, Scanning

| Director | Members |
|---------------------|--|
| <p>Prof Wei PAN</p> | |
| Advisors | <p>11 Postdoc Research Fellows</p> <p>19 Postgraduate Researchers</p> <p>8 Research Assistants and Engineers</p> |
| | |

Design (prototyping)

Manufacturing

Transport (weight analysis)

Assembly (auto-crane)

Progress M

Quality M

Energy M

DT for Life cycle monitoring

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www.miclab.hk

Introduction of the Organisation

Background

Modular Integrated Construction Laboratory (MiCLab) is a research laboratory established in 2020 at the Department of Civil Engineering of The University of Hong Kong (HKU). MiCLab aims to foster continuous improvements and target excellence in MiC, through the development of innovative strategies and technologies. The objectives include (a) developing a world-leading 'Laboratory of Excellence' for research, discourse and dissemination of innovations; (b) implementing interdisciplinary research on MiC; and (c) promoting MiC to achieve digital and sustainable development through government-industry-university collaboration.

Vision

MiCLab strives to achieve excellence and innovation in MiC research with a desire to contribute to the advancement of practice and improvement of the performance of the construction sector in Hong Kong and around the world.

Organisation Chart

MiCLab comprises an Executive Committee with academics from HKU Department of Civil Engineering and other relevant disciplines, and an Advisory Committee with members from academia, government and industry. MiCLab is under direction of Professor Wei PAN, a world-leading scholar in MiC, and has 50+ members including 7 professors and 40+ postgraduate researchers and engineers.

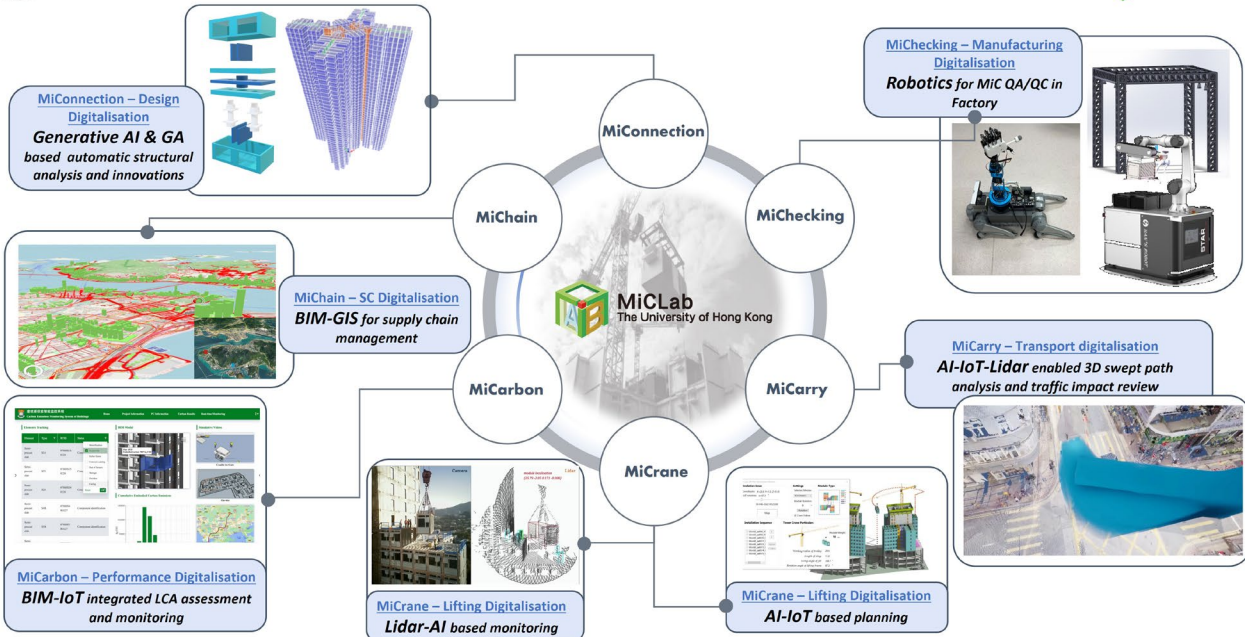
Award and Impacts

MiCLab has made significant achievements and impacts in both academia and industry: (1) HK\$100million+ research grants on MiC and digitalisation; (2) 200+ research papers published on MiC and digitalisation; (3) 10+ industry reports and guidebooks produced; (4) 10+ best paper awards from international conferences and journals; (5) 100+ trained researchers; (6) 5000+ trained professionals via forums and workshops; (7) 30+ keynotes delivered; (8) advised and supported 13+ MiC projects of over billion dollars contract value.

SILVER



DIGITALISATION RESEARCH & INNOVATION



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LEADERSHIP, BENEFIT, ACHIEVEMENT, IMPACT



10+ Best/Outstanding Paper Awards

- Modular integrated construction, off-site production, advanced prefabrication, productivity and automation
- Smart Traffic Fund (STF), A Smart Planning Platform for Safe and Efficient MiC Module Transport; HK\$19,236,900, 2022-2023, PI
 - Development Bureau, HKSAR Government, Zero-Accident Module Lifting in MiC through Smart Monitoring and Risk Prevention for Collision Detection and Alarming; 2023-2024.
 - Housing Authority, HKSAR Government, Study on Modular Integrated Construction Performance Measurement in Housing Authority; 2022-2024.
 - RGC Collaborative Research Fund (CRF), Optimizing Total Factor Sustainability of Tall Residential Buildings through Innovative Modular Integrated Construction; HK\$5,740,000, 2021-2024, PI
 - Development Bureau, HKSAR Government, Study on Performance of Modular Integrated Construction in Various Building Projects; 2021-2024.
 - RGC SPRF, Enhancing Modular Integrated Construction (MiC) Supply Chain in the Greater Bay Area (GBA) for Hong Kong Development; HK\$4,125,000, 2020-2024, PI
 - RGC RIF, Modular Integrated Construction 2.0+ for Quality and Efficient Tall Residential Buildings through Advanced Structural Engineering, Innovative Building Materials and Smart Project Delivery; HK\$14.3 million, 2019-2025, PI

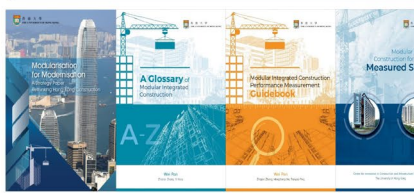
HK\$100m+ research grants on MiC & Digitalisation



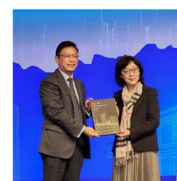
13+ MiC projects advised & value-added



Uni-Gov-Industry Collaboration, e.g. 5+ MoUs



10+ Industry Guidebooks from MiC theory to implementations



Awards & Honours



~100 researchers & >5000 professionals trained

Knowledge Exchange

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