

**PropTech**<sup>HK</sup>  
Hong Kong PropTech Association

Co-organiser:

數碼港  
*Cyberport*



**PropTech  
Excellence  
Awards  
2024**





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## About Organiser

### **About Hong Kong PropTech Association**

The Hong Kong PropTech Association (HKPTA) aims to acknowledge and celebrate outstanding achievements within the PropTech industry, while promoting innovation, collaboration, and the advancement of the sector.

As a collaborative ecosystem, we bring together property developers, investors, and emerging PropTech startups to foster effective communication, drive the innovation agenda within the property industry, and encourage technology-enabled solutions that enhance our lives, businesses, cities, and the environment.

# Message from Founder & Chairman



## **Ms Vivian CHAN**

*Founder & President*

Hong Kong PropTech Association (HKPTA)

It is with great pleasure that I extend my warmest congratulations to all the winners of the inaugural PropTech Excellence Awards. This award not only recognizes outstanding achievements but also serves as a platform to showcase innovative ideas, foster industry connections, create business opportunities, and attract investors and talents.

I am truly proud and inspired by the overwhelming response we received, with nearly 80 entries for this year's award application. The level of innovation and dedication displayed by all the participants is a testament to Hong Kong's immense potential in property technology. As we approach the 3rd anniversary of the Hong Kong PropTech Association, it is incredibly gratifying to witness the growing number of PropTech innovations and solutions emerging in Hong Kong. Underscored by its decades of profound sophistication in real estate and construction, world-class financial and legal systems, and convenient access to technology talents and supply chains within the Greater Bay Area, I believe Hong Kong is uniquely positioned with growing prominence as a hub for property technology in Asia.

Congratulations to all the winners for their exceptional achievements and contributions to the PropTech industry. I would like to again express my deepest gratitude to everyone who joined and supported the PropTech Excellence Awards 2024. Your dedication and commitment have contributed to the success of this event.

Together, let us continue to build a bright future for PropTech in Hong Kong. We warmly welcome more like-minded supporters to join us on this exciting journey.



## Message from the Guest of Honour



### **Ms. HO Wing Yin, Winnie, JP**

*Secretary for Housing*  
Housing Bureau

It is my great pleasure to congratulate the Hong Kong PropTech Association (HKPTA) on successfully hosting the Award Presentation Ceremony for the first PropTech Excellence Awards 2024.

Technology, innovation and creation drive the future of our economy and bring prosperity in Hong Kong. The success in PropTech needs the participation of all stakeholders including the Government, the industry, the academic/research institutions, the start-ups, etc. The PropTech Excellence Awards provides an excellent platform for all stakeholders to communicate, share and acknowledge the innovative technology and its application in real life.

In collaboration with the industry and academic/research institutes, the Housing Bureau and Housing Department are not only embracing innovative construction technologies to enhance site safety, efficiency, productivity and sustainability of public housing construction, but are also actively promoting smart estate management with an aim to enhance management efficiency and service quality for the nearly 200 public housing estates, around 810,000 households. To accelerate the revolution, in the 2023 Policy Address, CE introduced the element of promoting smart estate management, we will endeavor to explore more effective estate management technologies for trial.

Once again, I would like to express my warmest congratulations to all the awards winners of the PropTech Excellence Awards 2024.

My gratitude also goes to HKPTA, a pioneer in driving technological advancements in the real estate industry, for their continuous contributions to the property development industry, and I eagerly look forward to working together hand-in-hand to achieve the well-being of the community.

# Message from Chairman of Jury Panel



## **Dr Winnie TANG, MH, JP**

*Founder and Chairman*

Esri (China) Hong Kong Limited

### **Look forward to breakthrough of PropTech**

According to a newly released market research report, it predicts that the global PropTech market will grow from US\$19.5 billion in 2022 to US\$32.2 billion by 2030, at a CAGR of 6.5% between 2023 and 2030, reflecting a promising future ahead.

A consulting firm Ernst & Young and the Urban Land Institute also jointly published the GBA PropTech White Paper (“White Paper”) on the digital transformation in the real estate industry in the Greater Bay Area in 2022, analysing the current situation and opportunities in the region.

The White Paper states the demands from epidemic control, remote working, and data integration trends have catalysed the growth of the digital transformation of enterprises which PropTech is believed to be part of the new normal.

It also points out, the urbanisation rate in the GBA has reached 70% and more construction projects are ready to be launched. With the country’s “dual carbon” policy, it is imperative to reduce the carbon emissions generated by buildings and promote sustainable development in the future.

What’s more, in the context of climate change and the post-pandemic recovery, reducing carbon emissions and improving indoor environmental quality have become the common focus of the world.

PropTech has a lot of potential, I do hope all parties, especially the Government, industry, academia and research sectors can work together to co-create more innovative solutions and accelerate the transformation of the real estate and construction industry in Hong Kong and beyond.



## Jury Panel

### Chairman of Jury Panel

**Dr Winnie TANG, MH, JP**

*Founder and Chairman*

Esri (China) Hong Kong Limited

### Members of Jury Panel

**Ir Eric CHAN Sze-yuen**

*Chief Public Mission Officer*

Hong Kong Cyberport Management Company Limited

**Prof Jack CHENG Chin-pang**

*Associate Head and Professor*

Department of Civil and Environmental Engineering  
The Hong Kong University of Science and Technology

**Ar Donald CHOI Wun Hing, JP**

*Executive Director and CEO*

Chinachem Group

**Ar Prof Ada FUNG, BBS**

*Chairperson*

Hong Kong Chapter of buildingSMART International

**Prof Eddie HUI Chi Man, MH, JP**

*Professor, Department of Building and Real Estate*

The Hong Kong Polytechnic University

**Mr Eric OR**

*Head of Partnerships*

Hong Kong Science and Technology Parks Corporation

**Ir Sammy YEUNG Sau-kuen**

*Assistant Director/2*

Electrical and Mechanical Services Department

**Ir Andrew YOUNG**

*Associate Director (Innovation)*

Sino Group



# Message from Jury Panel



## **Ir Eric CHAN Sze-yuen**

*Chief Public Mission Officer*

Hong Kong Cyberport Management Company Limited

Ir. Eric Chan is the Chief Public Mission Officer of the Hong Kong Cyberport. Chan is in charge of the public mission operation at Cyberport, building the ecosystem of nurturing start-ups from inspiring the next generation, through nurturing the entrepreneurial spirit, to empowering global ambition, through comprehensive entrepreneurship programmes with funding and other value-added services.

Chan has over 30 years of experience in the ICT industry, a chartered engineer, a chartered marketer, and a Fellow of Institution of Engineering & Technology (UK). Prior to joining Cyberport, Chan held various senior positions in global ICT companies including Hutchison, PCCW, Cable & Wireless HKT etc.. Chan has been active in public services, especially in education and industrial training, professional bodies, and charitable organisations. Chan is the Chairman of Knowledge Management Development Center, Chairman of Industrial Training Advisory Committee (ICT Sector) and serves on a number of advisory committees under Education Bureau and Home Affairs Bureau. He also serves on advisory boards and mentorship programs at the University of Hong Kong, the Chinese University of Hong Kong and the Education University of Hong Kong.

Chan holds a BSc. (Hon) degree in Engineering from University of London, an MBA in Finance from Manchester Business School and received Senior Executive Education from INSEAD (France) and IESE (Spain) business schools.



## Message from Jury Panel



### **Prof Jack CHENG Chin-pang**

*Associate Head and Professor*

Department of Civil and Environmental Engineering  
The Hong Kong University of Science and Technology

Congratulations to all the well deserving winners of the Hong Kong PropTech Excellence Award 2024! I am also delighted to share the joy in congratulating Hong Kong PropTech Association on the success of the Hong Kong PropTech Excellence Award 2024, which is the first of its kind in Hong Kong! This prestigious award not only recognizes exceptional advancements and remarkable achievements in the field of property management technologies, but also motivates us to drive innovations and excellence in property management. The PropTech revolution has reshaped the way we envision and interact with the built environment, ushering in a wave of transformative solutions that enhance efficiency, sustainability, and overall user experience.

As a judge, I have had the privilege of witnessing the remarkable achievements made by the PropTech community, and I am confident that this is only the beginning of a transformative journey. I do look forward to seeing more potential of technologies to revolutionize the way we build, manage, and experience our urban environments.

To the winners, your strong dedication and creativity have set new benchmarks, inspiring countless others to push the boundaries of what is possible. Your pioneering efforts have not only elevated the real estate landscape in Hong Kong but have also established a blueprint for the global industry to follow.

Furthermore, I extend my heartfelt appreciation to all the participants who showcased their cutting-edge ideas and solutions. Your commitment to innovation has played a pivotal role in driving the PropTech movement forward.

In conclusion, I extend my warmest congratulations once again to all the winners of the first PropTech Excellence Award in Hong Kong. Your achievements have not only earned you this prestigious recognition but have also paved the way for a future where innovation and sustainability converge harmoniously. I encourage all stakeholders to continue fostering collaboration, nurturing talents, and embracing technological advancements in the future. Let us celebrate this important milestone together.

# Message from Jury Panel



## Ar Donald CHOI Wun Hing, JP

*Executive Director and CEO*  
Chinachem Group

May I congratulate the Hong Kong PropTech Association (HKPTA) on the successful organisation of the Presentation Ceremony for the inaugural PropTech Excellence Awards 2024. In today's rapidly evolving world, embracing technology and innovation is no longer optional, especially for a dynamic and fast-paced city like Hong Kong.

The PropTech Excellence Awards offer an exceptional opportunity for diverse stakeholders to come together to exchange ideas, recognise innovative technologies, and explore their practical applications for the betterment of society. Each of us has a crucial role to play in accelerating innovation breakthroughs and pushing the boundaries of what is possible.

As a leading industry player, Chinachem Group is committed to facilitating innovation in green buildings and making a positive impact on society. For instance, our Tonkin Street Redevelopment Project is Hong Kong's first private residential project to adopt Modular Integrated Construction (MiC), a construction technology that significantly increases work efficiency and quality, minimises labour force, ensures construction safety, as well as reduces on-site associated waste and pollution, contributing to a more sustainable and liveable city.

Besides, the adoption of precast building elements and multi-trade integrated mechanical, electrical and plumbing modules (MiMEP) in the construction of a prime cold storage and logistic centre in Kwai Chung further advances our ESG priorities.

We have also collaborated with CLPe to build Hong Kong's zero carbon chiller system in Nina Tower to enhance energy efficiency and reduce carbon emissions. Besides, we joined force with Hong Kong Science and Technology Parks Corporation through the "CCG Accel " accelerator programme, which supports tech ventures and corporations seeking to accelerate PropTech innovation.

Undeniably these major projects fully demonstrate our commitment to sustainable development, as well as our Triple Bottom Line philosophy, which gives equal weight to People, Prosperity and Planet.

I hope that the winners of the PropTech Excellence Awards 2024 will also continue their efforts to bring forth more innovative ideas and strive to create positive value for society, thereby further enlarging the value of this great opportunity provided by HKPTA.



## Message from Jury Panel



### **Ar Prof Ada FUNG, BBS**

*Chairperson*

Hong Kong Chapter of buildingSMART International

First and foremost, I must congratulate Hong Kong PropTech Association in organising a most successful PropTech Excellence Awards 2024!

I am impressed by the professionalism in managing the judging process, covering so many categories of submissions, as well as the quantity and quality of submissions received from the industry. The categories are very comprehensive, covering Design and Construction, Safety, ESG in PropTech, Property Management, Sales and Marketing, Tenant Engagement.

These submissions from individuals, start-ups as well as corporations cover a wide range of solutions and applications in both private and public sector. They have successfully showcased their outstanding innovation, creativity, and excellence in leveraging “disruptive technology” to drive advancement of the PropTech ecosystem for continuous improvement in the real estate industry.

Given the variety of submissions and excellent presentations by finalists all with compelling stories to tell, competition is very keen indeed. The adjudication process has been a tough exercise, and the finalists ALL deserve a praise. The award winners truly deserve our respect and applause for their marvellous achievements and contributions to the industry.

I truly hope that the success stories of these demonstration solutions, individuals and corporations can be widely publicised for the benefit of the whole industry and the public at large. Well done, and please keep it up!

# Message from Jury Panel



## **Prof Eddie HUI Chi Man, MH, JP**

*Professor, Department of Building and Real Estate*  
The Hong Kong Polytechnic University

Prof Eddie Hui is Professor of the Department of Building and Real Estate of The Hong Kong Polytechnic University.

Over the last 20 years or so, Prof Hui has served the community in many ways. For example, he was a member of the Long-Term Housing Strategy Steering Committee and the Real Estate Services Training Board of the Vocational Training Council. He was a member of the Building Appeal Tribunal, the Town Planning Board and its Rural and New Town Planning Committee, the Expert Panel (of Planning Department) for Hung Shui Kiu New Development Area and the Sustainability Advisory Committee of the LINK REIT. He was also a non-Executive Director of the Urban Renewal Authority, Chairman of the Property and Facility Management Division of the Hong Kong Institute of Surveyors, Advisory Vice Chairman of China Real Estate Chamber of Commerce (Hong Kong and International), Chairman of EAA's Practice and Examination Committee and a member of the Supervisory Board of the HK Housing Society. Currently, Prof Hui serves as, for example:

- Vice Chairman, The Property Management Services Authority
- Member, Executive Committee, The Hong Kong Housing Society
- Member, Subsidised Housing Committee, The Hong Kong Housing Authority
- Chairman, Licensing Committee and Board, The Estate Agency Authority
- Member, Panel of Advisors, Land Sharing Pilot Scheme, Development Bureau.



## Message from Jury Panel



### **Mr Eric OR**

*Head of Partnerships*

Hong Kong Science and Technology Parks Corporation

Eric Or is currently the Head of Partnerships for Hong Kong Science and Technology Park. Leading the team to drive the Hong Kong I&T ecosystem through collaboration with corporate clients, channels, and system integrators.

A veteran in the IT industry, Eric has over 30 years of experience in general management, sales & Major Account Management roles.

Prior to HKSTP, Eric was Managing Director, Greater China for Jardine OneSolution (HK) Limited from Jan 2015 to Jan 2020. Eric also spent over 10 years with Atos where he served as Country Managing Director for HK & Taiwan, Regional Head of Sales for Asia Pacific. Before that, Eric also worked in IBM, EMC, HP, and NCR in various sales leadership roles.

Eric holds Bachelor of Science degree at University of Toronto.

## Message from Jury Panel



### **Ir Sammy YEUNG Sau-kuen**

*Assistant Director/2*

Electrical and Mechanical Services Department

On behalf of the Electrical and Mechanical Services Department, I take the great pleasure in congratulating the Hong Kong PropTech Association to the successful launching of the first PropTech Excellence Awards 2024.

I am honored to be appointed as the member of the Jury Panel, and would like to extend my warmest congratulations to all the participants and winners for their outstanding achievement.

The Hong Kong PropTech Association has been actively pursuing professional excellence and nurturing talents for Hong Kong over the years. Based on its solid foundation of professionalism, I believe it will continue to excel with its expertise, dedication and quality services into another new page of its development, and playing an instrumental role to transform Hong Kong into a world-class smart city, in particular the area of property management. This year, the Hong Kong PropTech Association organizes the prestigious PropTech Excellence Awards 2024. It is remarkable to promote, encourage and appreciate the use of innovation technologies for property management including the operation & maintenance of E&M systems. Amongst different awards categories, they show the high-quality entries with showcase of the technology excellence.

I would like to express my deep appreciation to everyone at the Hong Kong PropTech Association including all its members, and the organizing committee for the great work and tremendous achievement. On reaching the milestone of this Awards, may I wish the Hong Kong PropTech Association every success in its future endeavour.



## Message from Jury Panel



### **Ir Andrew YOUNG**

*Associate Director (Innovation)*  
Sino Group

Ir Andrew YOUNG has over 35 years of executive experience, he was a senior executive and was the Chief Commercial Officer (2011-2017) of Hong Kong Science & Technology Parks Corporation and Director of Partnership Development (1998-2011) of The Hong Kong Polytechnic University. Ir YOUNG is currently the Associate Director (Innovation) of Sino Group with responsibility to explore and identify the Group's innovation and technology development and explore investment opportunities.

Ir YOUNG graduated from the University of South Australia with a Bachelor of Engineering (Mechanical Engineering) degree and holds a Postgraduate Diploma in Business Administration and Master of Business Administration. He is a fellow member of the Hong Kong Institution of Engineers and a Chartered Professional Engineer of the Institutions of Engineers Australia. Ir YOUNG is also an Adjunct Professor at The Hong Kong University of Science and Technology and The University of Hong Kong. He serves on various committees in different universities, such as The Chinese University of Hong Kong, City University of Hong Kong, and Hong Kong Baptist University, etc. Ir YOUNG also sits on various position in leading commerce and industry associations, including the Chairman of Hong Kong Automation Technology Council and AI & Robotics Alliance of Hong Kong, Vice Chairman of Hong Kong Medical and Healthcare Device Industries Association, and member of Construction Industry Council, etc.





## The Best PropTech Start-up Solution of the Year

Ergatian Limited

## The Best PropTech Solution of the Year

Hong Yip Service Company Limited

## PropTech Leader of the Year

Ir Dr Conrad WONG BBS JP – Yau Lee Holdings Limited

## PropTech Solutions of The Year

### Award Category: Design and Construction

SOCAM Development Limited	Diamond (Corporate)
Mattex Asia Development Limited	Gold (Corporate)
Hilti (Hong Kong) Ltd.	Gold (Corporate)
Ambit Geospatial Solution Limited	Silver (Corporate)
Filix Medtech Limited	Finalist (Start-up)

### Award Category: Safety

Electrical and Mechanical Services Department	Diamond (Corporate)
SOCAM Development Limited	Gold (Corporate)
Triple Faith Engineering & Supply Limited	Silver (Corporate)
Ambit Geospatial Solution Limited	Silver (Corporate)
Ergatian Limited	Diamond (Start-up)
Team Concepts Limited	Gold (Start-up)
AT-Vibe Technology Limited	Silver (Start-up)
York Joint Design and Construction Co. Ltd.	Finalist (Start-up)

### Award Category: ESG in PropTech

Hong Yip Service Company Limited	Diamond (Corporate)
Arup	Gold (Corporate)
City Facilities Management (HKG) Limited	Silver (Corporate)
Aurabeat Technology Limited	Silver (Corporate)
Keysen Property Management Services Limited	Silver (Corporate)
Neuron Operations Limited	Gold (Start-up)
Carnot Innovations Limited	Gold (Start-up)
Spare-it Limited	Silver (Start-up)
Full Nature Farms (Hong Kong) Ltd	Silver (Start-up)



## List of Awardees

### Award Category: Property Management

Kai Shing Management Services Limited	Diamond (Corporate)
Hong Yip Service Company Limited	Diamond (Corporate)
Kerry Property Management Services Limited	Gold (Corporate)
Propman Technology Limited	Diamond (Start-up)
Alpha AI Technology	Gold (Start-up)

### Award Category: Sales and Marketing

Midland Realty	Gold (Corporate)
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### Award Category: Tenant Engagement

Metersquare Limited	Finalist (Start-up)
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### Company/Individual Awards of the Year

#### Award Category: PropTech Integration Company of the Year

Electrical and Mechanical Services Department	Diamond (Corporate)
Gammon Construction Limited	Diamond (Corporate)
Hong Yip Service Company Limited	Gold (Corporate)
Jones Lang LaSalle Limited	Gold (Corporate)
Jones Lang LaSalle Management Services Ltd.	Gold (Corporate)
NTT Com Asia	Silver (Corporate)
York Joint Design and Construction Co. Ltd.	Silver (Start-up)

#### Award Category: PropTech Emerging Talent Award

Aura Labs Limited	Diamond
Butler	Gold
Mr JIANG Hao	Silver



## PropTech Solutions of the Year – Design and Construction



### SOCAM Development Limited

Listed on the Hong Kong Stock Exchange in 1997, SOCAM Development Limited, a member of the Shui On Group, is principally engaged in construction and property businesses. Our construction business has a high level of competence in design-and-build, construction of public housing projects, institutional buildings and public amenities, and has successfully expanded our scope of service into maintenance and interior fitting-out works.

With our wide range of experience and professional project management capabilities, we contributed in many design-and-build contracts such as

- Multi-Welfare Services Complex in Kwu Tung North
- Drainage Services Department Building
- Redevelopment of Kwai Chung Hospital Phase 2
- Junior Police Officers Married Quarters at Fan Garden
- Hong Kong Children's Hospital

While we uphold our corporate culture of pursuing integrity, quality, innovation and excellence, we are also committed to bringing positive impact on our economy, environment and community, and building a better tomorrow.

SOCAM pressed on the upgrade of its IT infrastructure and digitalization, while exploring and making wider application of new technologies in its construction projects, to raise operational efficiency, enhance quality, safety and reduce cost. We continue to strengthen our in-house design and technical competencies, increase investment in nurturing our Building Information Modelling (BIM) team and expand our MiC capacity.

Our strength in innovation and technology, are witnessed in the Kwu Tung North Multi-Welfare Services Complex project, which was completed in early 2023, that adopted MiC methods in full scale, as well as integrating BIM and smart technologies over the entire project lifecycle. Various sustainable solutions were applied, including a green battery energy storage system to lower construction carbon emissions, AI cameras for site safety, disinfection robots to combat COVID-19, and smart logistics using BIM software. BIM and clash detection were utilized to enhance coordination and resolve design conflicts, resulting in a significant reduction in abortive works. Apart from adopting ready-to-use solutions from the market, the project also developed its own solutions, such as BIM integrated with RFID for digital QA/QC and autonomous material delivery robots.





## Awardees introduction

### PropTech Solutions of the Year – Design and Construction



#### Mattex Asia Development Limited

Mattex Asia Development Limited operates the eMat platform, which is the first comprehensive online construction submission management and procurement platform in Hong Kong. The eMat platform is designed to facilitate efficient communication and collaboration among project participants and stakeholders within construction projects. It provides real-time status updates and enhances transparency on document management and procurement activities throughout the project lifecycle.

eMat provides dedicated applications for various project stakeholders specifically, through the adoption of our applications of over 250 projects in past 2 years, we have been able to measure the improvements our users attained from using our platform. Typical project procedures such as construction submission review, material procurement and site safety compliance permits have attained double digital percentage improvements in their efficiencies by adopting a streamlined workflow in our digital applications. We gained high recognition from a number of developers and consultants that our platform features could enable efficient communication, enhance collaboration between project stakeholders and promote paperless transactions.

Our technology team continues to adopt new technologies and develop new features to evolve the construction industry. We have recently utilized Generative AI capabilities to automate the creation of typical submission documents, which improve the document preparation efficiency, and we will continue to explore how these cutting-edge technologies can be applied to provide a better application experience to our users.

We have witnessed that our eMat platform has helped construction projects achieve higher efficiency and transparency through the adoption of digitalized workflows, real-time communication and data analysis. We facilitate project team members to collaborate and achieve greater project success through an environmental friendly sustainable platform.



# Awardees introduction



## PropTech Solutions of the Year – Design and Construction



### Hilti (Hong Kong) Ltd.

Hilti's BIM-driven Integrated Project Solutions (IPS) have emerged as a transformative force in the design and construction industry. By leveraging Building Information Modelling (BIM) technology, Hilti has revolutionized project planning, coordination, and execution, while also prioritizing environmental sustainability.

Through IPS, Hilti enables precise and efficient design by utilizing BIM to deliver accurate and detailed MEP (Mechanical, Electrical, and Plumbing) designs. This minimizes conflicts and errors during construction, enhancing design efficiency and reducing the need for costly modifications.

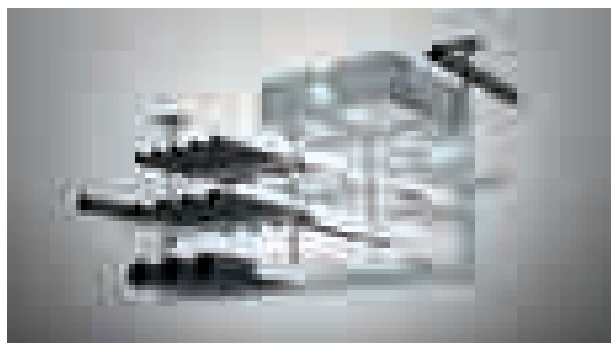
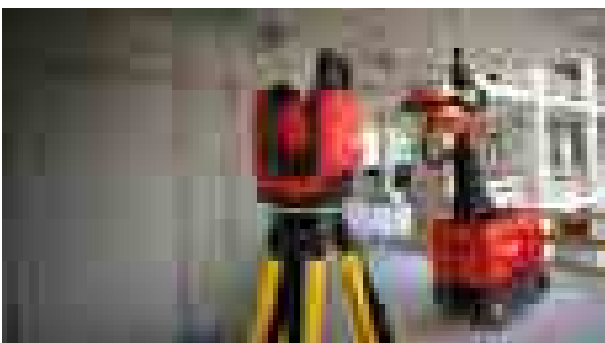
Seamless collaboration, coordination, and construction processes are at the core of Hilti's IPS. By fostering effective communication and collaboration among project stakeholders through a centralized BIM platform, Hilti ensures real-time information sharing and conflict resolution. This streamlined approach minimizes on-site conflicts, rework, and delays, leading to improved safety, increased productivity, and enhanced cost-effectiveness.

In addition to design and collaboration, Hilti's IPS addresses environmental sustainability through the inclusion of Environmental Product Declarations (EPDs). By incorporating EPDs into their IPS, Hilti promotes the use of sustainable materials and practices. These declarations provide transparent and verified information about the environmental performance of construction products, enabling project teams to make informed decisions that align with sustainability goals.

By aligning with the MiMEP methodology, Hilti's IPS plays a crucial role in enabling the implementation of modular and prefabricated components for MEP systems. This innovative approach promotes off-site manufacturing, reduces on-site labor and material waste, and enhances the overall efficiency of construction projects.

Moreover, IPS also addresses the challenges of labor shortages and mitigates risks through timely material delivery and automation tools like the Jaibot Drilling Robot. These technological advancements enable smoother project execution and further optimize construction processes.

Overall, Hilti's BIM-driven Integrated Project Solutions offer transformative capabilities for the design and construction industry. By leveraging advanced BIM technologies, Hilti enables precise design, seamless collaboration, and improved productivity, while aligning with innovative methodologies such as MiMEP. This attachment provides valuable insights into Hilti's visionary approach and the exciting possibilities it offers for the future of construction projects.





## Awardees introduction

### PropTech Solutions of the Year – Design and Construction



#### Ambit Geospatial Solution Limited

AMBIT is the prime City Big Data provider in Hong Kong, we capture accurate geographic information by automatic approach for business users. Our total solution including 3D city data acquisition, post processing, analysis as well as 3D viewing platform. High resolution city data are collected seamlessly through aerial and terrestrial systems developed by our patented technologies using drone, large scale airborne sensors and vehicle/backpack mobile mapping systems (MMS). We expertise in 3D geographic information system (GIS), we developed series of smart city applications ride on our edge of 3D spatial data for tree management, 3D city modelling or autonomous driving etc.; our integrated geospatial solution helps risk management and progress monitoring in city development.

#### Our Solution (3D Tomato)

Our "3D Tomato" is a centralized management platform that creates a digital twin based on spatial data, images, videos, and IoT sensor data like temperature and humidity. Initially, our crew uses cutting-edge technologies such as drones, large-scale aerial cameras, and vehicle/backpack mobile mapping systems (MMS) to capture data from the designated area. This data is then processed by our technical team to generate a 3D model.

In the subsequent phase, we enhance this digital framework with a suite of DWSS components. Sophisticated CCTV networks offer vigilant site surveillance, while smartwatches track and ensure the safety of personnel in real-time. Environmental sensors are strategically placed to monitor conditions, feeding continuous data streams into our system. Additionally, our platform integrates communication tools, project management software, and asset tracking systems, transforming the model into a living digital hub that reflects the heartbeat of the site.

This makes "3D Tomato" a great way to see everything that's happening on the site in one place. It helps the people in charge make better decisions and manage the work more efficiently. By using "3D Tomato," you can see the site come to life on the screen, which helps everyone understand the work better and get things done faster and safer.



## PropTech Solutions of the Year – Design and Construction



### Filix Medtech Limited

Filix Medtech is a tech startup striving to bring product traceability, verifiability and sustainability to trusted supply chains applicable to various industries. We engage blockchain technology to achieve QR code traceability with mobile Near-Infra-Red (NIR) Technology for on-site product/material inspection with advanced data analysis and patented scene analysis for alternate data verification.

By applying our technology to the construction industry, we believe traceability plus + verifiability can determine creditability with confidence. We can provide an All-in-one platform for Accessing Contractor's data, Building document record & verification, Alternative data analysis and Contract Management. Mobile NIR Spectrometer can be used to collect spectrum data from the hardcopies received from Contractors and then compare spectrum data with standard data stored in the blockchain. This can provide similarity % instantly for Rapid Screening of Materials or even for Fraudulent documents. For alternate data verification, our patented technology can be used for Smart Construction Site Analytics with Advanced Scene Analysis and Smart Materials Stock Keeping.

US9619899B2: Distinguishing between stock keeping units using hough voting methodology

US9536167B2: Realogram scene analysis of images: multiples for scene analysis

US9483704B2: Realogram scene analysis of images: superpixel scene analysis

We have received industry recognitions like HK ICT Award 2021 Smart Living Award (Smart HealthCare) Silver Award, HK ICT Awards 2022 -Startup Award (Social Impact) Silver Award and Asia Pacific ICT Alliance Awards (APICTA) 2022 – Winner Award in the R&D category.





## Awardees introduction

### PropTech Solutions of the Year – Safety



#### Ergatian Limited

**Ergatian Limited** is an IoT technology-oriented company founded in Hong Kong in 2018. The company aims to leverage cutting-edge AI and big data technologies to provide promising solutions in the Renewable Energy and Smart Grid field, which is believed to speed up the realization of energy IoT, digitalization of power grid, and smart city. Our business scope covers but not limited to the following aspects, e.g., non-intrusive lift AIoT solution, design and performance management of distributed PV systems, planning and optimized operation of micro-grid and integrated energy system. All of our core members hold with PhD degrees and graduated from Hong Kong or overseas renowned universities. The vision of Ergatian is to establish a safe, efficient, and green society by continuous promotion of the industrialization of key data science and AI technologies.

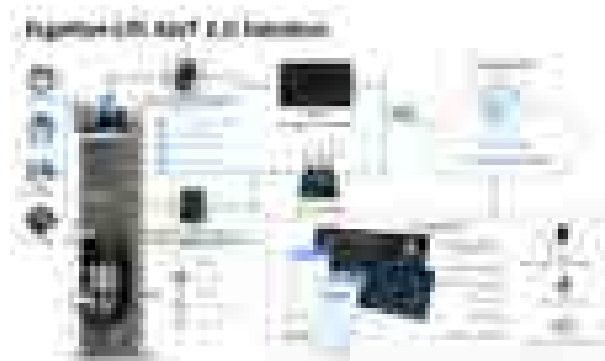
**Ergatian Lift AIoT 2.0 Solution**, the flagship project of Ergatian Limited, epitomizes the company's evolution and growth. This solution represents the culmination of our efforts in research, innovation, and commercialization. Through meticulous research and development, we have crafted a solution that integrates advanced technologies, offering reliability and efficiency in lift operations.

**Advanced Technological Integration:** The Ergatian Lift AIoT 2.0 Solution integrates state-of-the-art technologies like Artificial Intelligence (AI), Internet of Things (IoT), and Big Data analytics to enhance lift maintenance and safety standards.

**Streamlined Installation and Modular Design:** The solution offers a hassle-free deployment process with its non-invasive installation approach, ensuring simplicity and minimal disruption while significantly reducing both time and costs. Engineered with a modular design philosophy, it allows for effortless customization and scalability, enabling easy adaptation to various lift systems and environments.

**Comprehensive Monitoring and Effective Predictive Maintenance:** The solution utilizes strategically positioned sensors for real-time monitoring of critical lift parameters. Powered by AI and deep learning algorithms, it enables early fault detection and predictive maintenance, minimizing downtime, and enhancing overall reliability through proactive maintenance measures.

**Gradual Market Adoption and Industry Recognition:** The Ergatian Lift AIoT 2.0 Solution is steadily gaining traction in the market following its successful implementations. Recognized within the industry, our accomplishments include the publication of two academic papers, acquisition of three patents in Hong Kong and the United States, and winning five awards in industrial or entrepreneurial competitions across Hong Kong and mainland China. These achievements underscore our innovative approach to lift maintenance and safety, solidifying our reputation within the industry.







## PropTech Solutions of the Year – Safety



### Electrical and Mechanical Services Department

#### Background

Electrical and Mechanical Services Department (EMSD) is a leading government organization dedicated to providing quality engineering services for the electrical and mechanical (E&M) systems in over 8,000 government buildings, facilities and infrastructures in the territory. The EMSD not only provides the safe, efficient and quality engineering solutions to satisfy the clients' needs, but also embraces innovation and technology for service enhancement. Through the Government-Wide IoT Network (GWIN), the EMSD assisted the public works departments to implement cost-effective and wide area monitoring by Long Range (LoRa) technology to realize smart construction safety systems. As at February 2024, 10 public construction sites successfully adopted the GWIN.

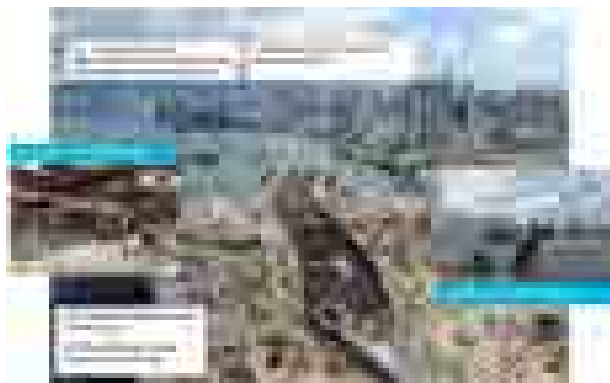
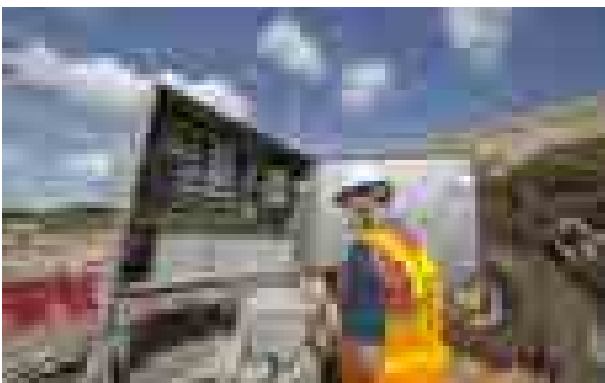
#### Achievements

Safety is of vital importance in construction industry. Our project "Implementing Smart Construction Safety through the Government-Wide IoT Network (GWIN)" has already yielded significant achievements. By integrating Internet of Things (IoT) devices and leveraging the GWIN, it could create a comprehensive safety network connecting abundant types of IoT sensors for construction sites safety monitoring. Firstly, the IoT applications through the GWIN enabled the real-time monitoring of the site activities, environmental conditions and potential hazards. Secondly, it improved the situational awareness by collecting and analyzing the data and useful information to provide construction workers and supervisors with actionable insights to prevent accidents. Thirdly, the alert systems and predictive analytics allowed the proactive safety measures to mitigate risks and incidents. Furthermore, the GWIN adoption could automate the incident reporting for faster response for safety management.

In 2021, with the support of the Development Bureau (DevB), 6 public construction sites in Hong Kong were successfully equipped with the GWIN gateways for site safety management. The DevB issued the Technical Circular (Works) on mandatory implementation of Smart Site Safety System on 27 February 2023. A number of Works Departments positively considered to install the GWIN for site safety management. More GWIN gateways had been swiftly deployed to the construction sites in response to this regulatory framework.

In April 2023, the EMSD awarded with the recognition on "LoRa Mesh Technology for Extending the IoT Network Coverage to the Rural Areas" at the International Exhibition of Inventions of Geneva 2023. By applying this LoRa mesh technology on the GWIN systems, it can extend coverage to the public works sites at remote areas which lack mobile signal coverage, such as islands, tunnels and underground areas in future.

To conclude, by leveraging the GWIN connectivity and the IoT technologies, it could create a comprehensive safety network, reducing accidents, enhancing productivity and ensuring regulatory compliance. This proposal of the implementation of smart construction safety through the GWIN ultimately contributed to the well-being of construction workers and the successful project completion in the construction sector. With more innovative ideas and integrate advanced technologies adopted in construction industry, it would be much beneficial in developing Hong Kong as an international smart city.





## Awardees introduction

### PropTech Solutions of the Year – Safety



#### SOCAM Development Limited

Listed on the Hong Kong Stock Exchange in 1997, SOCAM Development Limited, a member of the Shui On Group, is principally engaged in construction and property businesses. Our construction business has a high level of competence in design-and-build, construction of public housing projects, institutional buildings and public amenities, and has successfully expanded our scope of service into maintenance and interior fitting-out works.

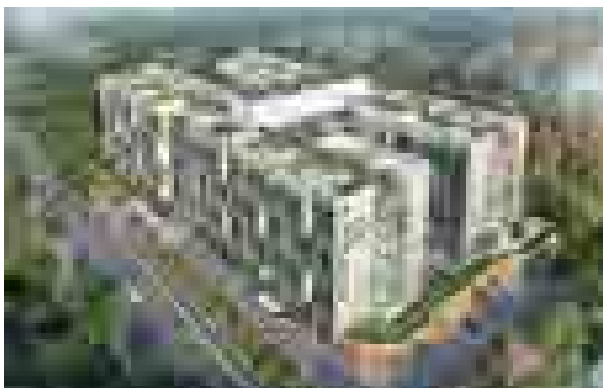
With our wide range of experience and professional project management capabilities, we contributed in many design-and-build contracts such as

- Multi-Welfare Services Complex in Kwu Tung North
- Drainage Services Department Building
- Redevelopment of Kwai Chung Hospital Phase 2
- Junior Police Officers Married Quarters at Fan Garden
- Hong Kong Children's Hospital

While we uphold our corporate culture of pursuing integrity, quality, innovation and excellence, we are also committed to bringing positive impact on our economy, environment and community, and building a better tomorrow.

SOCAM pressed on the upgrade of its IT infrastructure and digitalization, while exploring and making wider application of new technologies in its construction projects, to raise operational efficiency, enhance quality, safety and reduce cost. We continue to strengthen our in-house design and technical competencies, increase investment in nurturing our Building Information Modelling (BIM) team and expand our MiC capacity.

Our strength in innovation and technology, are witnessed in the Kwu Tung North Multi-Welfare Services Complex project, which was completed in early 2023, that adopted MiC methods in full scale, as well as integrating BIM and smart technologies over the entire project lifecycle. Various sustainable solutions were applied, including a green battery energy storage system to lower construction carbon emissions, AI cameras for site safety, disinfection robots to combat COVID-19, and smart logistics using BIM software. BIM and clash detection were utilized to enhance coordination and resolve design conflicts, resulting in a significant reduction in abortive works. Apart from adopting ready-to-use solutions from the market, the project also developed its own solutions, such as BIM integrated with RFID for digital QA/QC and autonomous material delivery robots.



# Awardees introduction



## PropTech Solutions of the Year – Safety



### Team Concepts Limited

Team Concepts is a total solution provider for Smart Safety and Health AIoT and Management System, including Smart Site Safety System solution and products, such as Smart Gas Detector, Smart Watch, Smart Helmet Strap Detector, Smart Proximity, Confined Space Solution, Indoor & Outdoor Location Tracking, Smart Weather Station, etc.

Our products and solution are deployed into construction, utilities, maintenance works across departments, such as EMSD (Electrical and Mechanical Services Department), CEDD (Civil Engineering and Development Department), DSD (Drainage Services Department), WSD (Water Supplies Department), ASD (Architectural Services Department), HD (Highways Department), HK Housing Society, Cyberport, etc. Increase worker efficiency, promote health, and better safety.





## Awardees introduction

### PropTech Solutions of the Year – Safety



#### Ambit Geospatial Solution Limited

AMBIT is the prime City Big Data provider in Hong Kong, we capture accurate geographic information by automatic approach for business users. Our total solution including 3D city data acquisition, post processing, analysis as well as 3D viewing platform. High resolution city data are collected seamlessly through aerial and terrestrial systems developed by our patented technologies using drone, large scale airborne sensors and vehicle/backpack mobile mapping systems (MMS). We expertise in 3D geographic information system (GIS), we developed series of smart city applications ride on our edge of 3D spatial data for tree management, 3D city modelling or autonomous driving etc.; our integrated geospatial solution helps risk management and progress monitoring in city development.

#### Our Solution (3D Tomato+ AI Workplace Safety Inspector)

##### 1. 3D Tomato

Our "3D Tomato" is an innovative safety management platform for construction sites. It creates a digital twin of the construction site leveraging spatial data, images, videos, and IoT sensor data such as temperature and humidity.

Our crew uses state-of-the-art technologies—drones, large-scale aerial cameras, and vehicle/backpack mobile mapping systems (MMS)—to capture data from the designated area. This data is processed to generate a 3D model, providing a comprehensive and detailed visualization of the site.

To enhance safety, we install additional equipment such as CCTV cameras and smart watches for individuals entering the site. These tools monitor real-time site activities, worker locations, and potential safety hazards. Information from these devices, along with other integrated sensors, is incorporated into our 3D model, providing a dynamic representation of the site's safety conditions.

This integration of real-time data enables proactive safety management and risk mitigation. It alerts supervisors to potential safety hazards before they become critical, allowing for immediate response. The "3D Tomato" platform, therefore, serves not only as a tool for efficient construction site management, but also as a crucial component of a comprehensive site safety strategy.

##### 2. AI Workplace Safety Inspector

To further enhance site safety management, we incorporate the AI Workplace Safety Inspector into the "3D Tomato" platform. The Safety Inspector uses advanced aerial drone imaging and our robust AI algorithms to conduct comprehensive spot checks on site safety, examining elements like equipment positioning and worker personal protective equipment (PPE). It identifies potential safety risks and non-compliance issues, mapping anomalies for further analysis. This augmentation of the "3D Tomato" platform allows for an even more robust and comprehensive safety solution.



## PropTech Solutions of the Year – Safety



### AT-Vibe Technology Limited

AT-Vibe Technology Limited is a company that specializes in providing innovative safety solutions and products to help customers achieve their safety goals. With a focus on smart infrastructure, smart buildings, smart traffic, smart city digital transformation, and inno-health care, the company offers a wide range of reliable, cost-effective, and user-friendly safety solutions.

One of the company's most recent projects is the Smart Reflective Safety Vest, which is designed to meet the safety needs of workers in various industries, such as pipeline construction, road sanitation, and other outdoor settings. What sets this vest apart from other safety gear is its ability to combine multiple technologies, such as 5G, LoRaWan, UWB, IoT, AGPS, and AI. This combination of technologies enables the vest to monitor the wearer's vital signs, detect heatstroke, and issue warnings to prevent sudden death.

The Smart Reflective Safety Vest has several unique features that make it a game-changer in the field of workplace safety. One of its key features is the ability to detect when the wearer has entered a restricted zone. The vest uses a combination of 5G and LoRaWan technologies to create a virtual fence around the work area. If the wearer crosses this boundary, an alert is sent to the supervisor or manager, warning them of the intrusion, thus preventing accidents and injuries in high-risk work environments.

Another unique feature of the Smart Reflective Safety Vest is its non-body-tight design, which makes it comfortable and easy to wear. Unlike traditional safety vests that can be uncomfortable and restrictive, the detachable design of this vest makes it easy to clean and maintain, which is crucial for workers exposed to dirt and dust.

Moreover, the Smart Reflective Safety Vest monitors the wearer's breathing and heart rate, which is critical in high-stress work environments. If the vest detects abnormal breathing patterns or heart rates, it issues a warning to the wearer, alerting them to take a break or seek medical attention.

In conclusion, the Smart Reflective Safety Vest is an impressive achievement in the field of workplace safety. Its innovative combination of technologies and user-friendly design makes it an essential tool for any worker who operates in a high-risk environment. AT-Vibe Technology Limited is committed to creating products that are not only effective but also easy to use and maintain, and the Smart Reflective Safety Vest is a testament to that commitment.





## Awardees introduction

### PropTech Solutions of the Year – Safety



#### Triple Faith Engineering & Supply Limited

**Company Background:**

Triple Faith Engineering & Supply Limited was established in 1990. As a trusted service providers to our clients, we provide full range of technology solutions and engineering services in many aspects including the forward looking Artificial Intelligence (AI) tools, cloud based Internet of Things (IoT) platform, smart property management solutions, smart elderly care solutions, smart site safety solutions, wireless energy management solutions etc.

Our solutions have been widely adopted by clients in both the public and private sectors, which includes numerous public and private hospitals, universities, government office buildings, country parks, theatres, town halls/city halls, municipal buildings, libraries, museums, stadiums, drainage treatment plants, mass transit station facilities, construction companies, property developers, property management companies, shopping malls, hotels, luxury homes, etc..

**Project Highlights:**

This case study reports the successful implementation of an innovative and AI oriented Internet of Things (IoT) solution in a mid-class aged home – Jolly Place Care Home. Jolly Place Care Home is a private residential care home for the elderly in Tseung Kwan O. The residents residing there are served with customized nursing and care services. The service team of Jolly Place Care Home consists of multi-disciplinary professionals consisting of registered nurses, social workers, physiotherapists and occupational therapists. Housing Society, the owner of Jolly Place, strives to provide holistic care services to ensure that the residents would enjoy a dignified and joyful living.

Our solution aims to further enhance the safety, comfort, and overall well-being of the elderly residents through a number of advanced features such as fall detection, automatic lighting control, secured access control, facial recognizable surveillance cameras, etc. By leveraging the cutting-edge technology, this IoT solution has set new standards for personalized and intelligent living environments for the elderly.

# Awardees introduction



## PropTech Solutions of the Year – Safety



### York Joint Design and Construction Co. Ltd.

York Joint is a civil and green social enterprise that provides engineering and safety consultancy, design, and construction services in Hong Kong, with plans to expand globally. Our core values of "integrity, safety, and excellence" guide us in creating first-class ESG, SDG, social innovation and technology engineering projects.

We work closely with our business, social enterprise, and NGO partners to align stakeholder interests and deliver shared ESG values under four pillars: Workplace, Marketplace, Environment, and Community. As a unique professional engineering firm registered in both HKSAR WSD, EMSD, and the CIC as a qualified Contractor and Social Enterprise in both HAD and HKCSS, York Joint aims to provide job opportunities for the betterment of underprivileged communities. In addition to our team of professional staff, we have recruited over 100 candidates from ex-offenders, ethnic minorities, and people with disabilities in Hong Kong, for the project of HKSAR Government, Disney Land, HK Land, and Gammon Construction, with contribution of 6.2 million in MPF.

In the light of ESG, SDG, and cross-sector collaboration, we partner with different parties in business and social sectors, to formulate projects via design thinking to tackle the pain points of society and industry. In 2018, targeted pain point of the shortage of labour in the Construction field and the unemployment rate in underprivileged groups, we offer ethnic minorities & ladies, ex-offenders, on-job training in construction field, partnered with The Society of Rehabilitation and Crime Prevention and the HKSAR CSD. Now, with our successful field experience on our ethnic minorities and ladies qualified safety supervisor and skilled worker, "SALUS – 1st Person View AI Smart Site Safety System", a Smart Site Safety System have been formulated to combat the site accident, to empowers the underprivileged group and to establish safety knowledge management system, partnered with CityU and Pong Yuen.



## Awardees introduction

### PropTech Solutions of the Year – ESG in PropTech



#### Hong Yip Service Company Limited

Established as a wholly owned subsidiary of Sun Hung Kai Properties Ltd. (SHKP) in 1967, Hong Yip Service Company Ltd. (Hong Yip) remains one of Hong Kong's foremost specialist property and facilities management companies. We are now managing more than 1,700 individual building blocks, ranging from private estates and luxurious houses, commercial and industrial buildings, shopping centres, to government and school facilities. Sharing SHKP's commitment to "Building Homes with Heart" and the motto "Serving Customer with Heart", Hong Yip aims to provide ultimate management service with the integration of innovative technology and environmental protection management. Hong Yip will continue to provide a better living environment, to create a better lifestyle, and to build a better community for customers to enjoy.

Hong Yip strives to achieve its sustainability goal of "SERVICE FOR TOMORROW", which is driven by seven core values of "SERVICE", being the acronym for Social, Environment, Risk Management, Vendor, Innovation, Customer and Employee. With these seven core values, we would continue to strengthen our environmental, social and economic resilience in pursuit of sustainable growth, synchronizing with SHKP's development, with a view to providing a better living environment, creating a better lifestyle, building a more harmonious and healthier community.

We pledge to achieve "carbon neutrality" by 2050 and promote Hong Kong as a sustainable green city. We have demonstrated innovative leadership by introducing the "Concept of Sustainable Green City" to enhance living environment of customers. Besides continuously promoting landscaping, we also set strict environmental protection standards for properties to improve environmental performance and energy efficiency, for a green and sustainable living environment.

Hong Yip has implemented a series of initiatives to promote the adoption of renewable energy. 9,260 solar photovoltaic panels were installed, generating an annual electricity output of 3,960,000 kWh, equivalent to the electricity consumption of 1,200

Simultaneously, starting from July 2021, we have been purchasing Renewable Energy Certificates (RECs) from CLP Power Hong Kong for Hong Yip's training programs and designated significant events. These RECs serve to offset the electricity consumption associated with online and on-site training activities, as well as large-scale events. This demonstrates our strong support and active participation in the adoption of renewable energy and the Feed-in Tariff (FiT) Scheme.



# Awardees introduction



## PropTech Solutions of the Year – ESG in PropTech



### Arup

Dedicated to sustainable development, Arup is a collective of designers, consultants and experts working globally. Founded to be humane and excellent, we collaborate with our clients and partners using imagination, technology, and rigour to shape a better world.

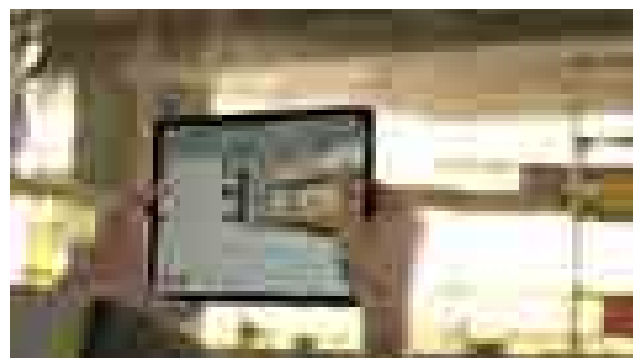
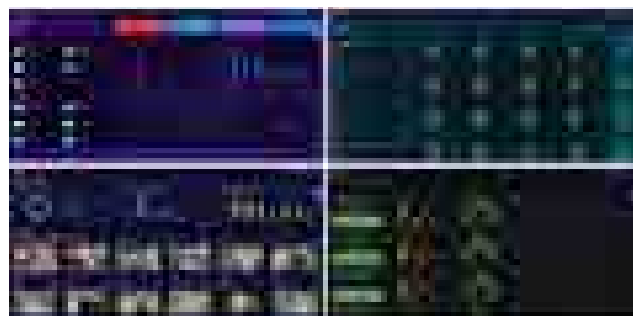
CONDUCTOR, developed by Arup and Swire Properties, is an integrated smart construction management platform. As a collaboration SaaS platform, it allows the adoption of emerging technologies in a plug-and-play manner, driving digital transformation of the construction industry and supporting sustainable construction.

Open for collaboration, CONDUCTOR leverages contribution from different service suppliers to provide holistic smart construction support. The platform adopts emerging technologies such as AI, IoT, digital twin with AR integration. Insights can be drawn from data fed by various tools and multiple construction sites.

In line with Development Bureau (DEVB)'s recent requirements on the application of Digital Work Supervision System (DWSS) and Smart Site Safety System (SSSS), CONDUCTOR's framework is established under those two modules, with the addition of Sustainable Construction. Under the consolidation of three modules, CONDUCTOR helps construction projects address and report on ESG KPIs via its novel approach to site management.

CONDUCTOR has received local and global awards including:

- Champion – IET YPEC 2023 (Open Section)
- Gold Award – Smart City Technology Innovation 2023 at the Global Smart Cities Summit cum The 3rd International Conference on Urban Informatics
- 2nd Prize – CIC Construction Innovation Award 2022 (Construction Safety)





## Awardees introduction

### PropTech Solutions of the Year – ESG in PropTech



#### Carnot Innovations Limited

Carnot Innovations, a trailblazer in AI Energy Optimization Solutions, was established in Hong Kong by Ashish Jerry Justin, an esteemed Energy Management Expert, and Choy Tze Leung, a highly skilled data scientist. The company's primary mission revolves around harnessing the power of Artificial Intelligence to make buildings smarter, enabling superior maintenance and energy efficiency. Being at the forefront of AI energy optimization, Carnot Innovations has successfully deployed its cutting-edge solutions in over 90 buildings across Hong Kong, Singapore, Taiwan, and Thailand. These include prestigious grade A commercial buildings, upscale shopping malls, critical infrastructures, and healthcare facilities.

With a steadfast commitment to sustainability, Carnot Innovations plays a pivotal role in helping enterprises reduce their carbon footprint and attain their Environmental, Social, and Governance (ESG) goals. By positioning itself as the brain behind smart buildings, the company empowers organizations to achieve optimal energy performance, enhance operational efficiency, and drive significant cost savings. Carnot Innovations' AI-driven approach leverages advanced algorithms and real-time data analysis to provide intelligent insights, enabling proactive decision-making and streamlined energy management.

The impact of Carnot Innovations' solutions extends far beyond energy efficiency. By transforming buildings into intelligent ecosystems, the company contributes to creating a greener and more sustainable future. Through their pioneering efforts, Ashish Jerry Justin, Choy Tze Leung, and the entire Carnot Innovations team continue to shape the landscape of AI energy optimization, revolutionizing the way buildings are operated and managed.



# Awardees introduction



## PropTech Solutions of the Year – ESG in PropTech



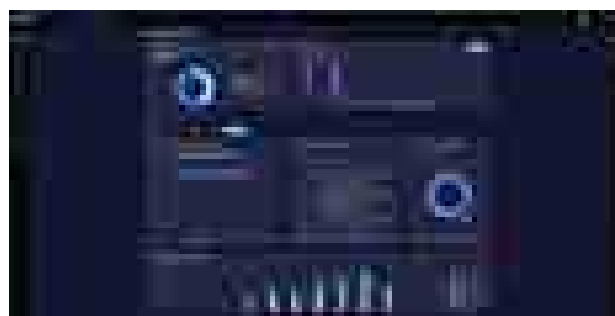
### Neuron Operations Limited

Buildings are one of the least digitalized sectors in Hong Kong. Buildings consume a staggering 90% of total energy usage and 66% of electricity usage of the entire city, and buildings are managed with proprietary hardware and software that are customized project-based systems, which require separate managing and complete system overhauls to upgrade, thus making it very inconvenient and costly.

Originally incubated by world-leading global built environment consultant firm Arup in 2018, Neuron Digital Group has been launched as a Joint Venture between Arup and Venturous Group, China's first Citytech™ Group. With Arup's world-leading domain knowledge in the built environment and Venturous Group's capital, strategy, and technology capabilities, Neuron is in the best position to develop a powerful technology platform for smart and sustainable buildings.

Hence, having identified the above pain points, Neuron has developed the Neuron Platform, a smart platform for building owners and property managers to optimize energy efficiency, maximize human comfort and health, reduce management costs, while emphasizing building sustainability and ESG principles. This cloud-based, all-in-one digital platform, supported by the four main pillars – Digital Twins, IoT Hub, Neuron Energy, and Neuron Sustainability applications, acts as a brain for the buildings, featuring an open platform that can interface with different equipment, being able to learn from historical data, being seamlessly upgradable from time to time, and having a flexible framework that allows incorporation of new functions without affecting existing operations.

The Neuron Platform leverages technology such as artificial intelligence and data analytics to achieve energy optimization in areas such as HVAC systems, chiller plants, workplace environments, etc., saving up to 30% of energy usage and ensuring human comfort and a healthy environment. All such data are displayed through customizable and easy-to-use dashboards and applications that show various evaluations and building insights. The Platform has been implemented in commercial buildings, shopping centers, industrial buildings, school campuses, government buildings, and other sectors and infrastructure.





## Awardees introduction

### PropTech Solutions of the Year – ESG in PropTech



#### Spare-it Limited

##### Solution introduction

With the mission of enabling Zero Waste through waste intelligence. Spare-it offers a Software as a Service (“SaaS”) platform for workplace sustainability. Its seamless smart scale deployment enables users to access waste intelligence inside the building and leverages data granularity and behavioural change to reduce waste-to-landfill, increase diversion and avoid contamination.

We leverage machine learning to help meter waste (quantitatively & qualitatively), automate waste-related reporting (API integrations), calculate GHG avoidance, and create cost-reduction strategies.

We have been operating for more than three years in Hong Kong and the US, and our customers have actively achieved a year-over-year reduction in waste-to-landfill and an increased waste diversion rate.

##### Core technology for the solution

- IoT Sensors for waste monitoring to collect live waste data
- Contamination tracking to identify key contaminants
- Dashboards, Educational material for employee awareness & engagement
- Data Access Portal for multi-dimensional analysis and reporting purposes

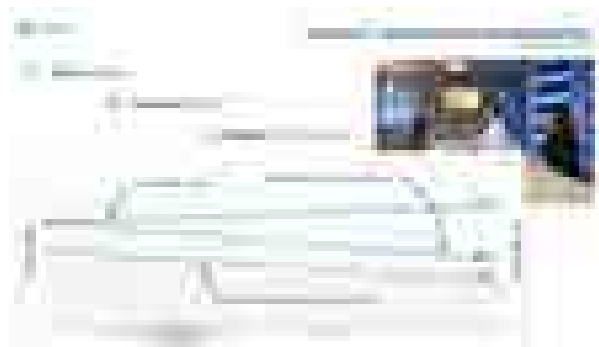
##### Customer Portfolio and Achievements

We have been working with Swire Properties for the past three years (+30 tenants). MTR for one year and also a recent collaboration with CLP.

As part of the Swire Properties collaboration;

- Luxury brands have increased the diversion rate by 12.2%, going from 58% to 70%.
- Consulting Company has reduced waste-to-landfill per employee by 20% in less than a year's time.
- Law Firm reduces average monthly paper waste by 60% in three years.

Over 44 customers globally (Mainly in HK & Boston, New York and San Francisco)





## PropTech Solutions of the Year – ESG in PropTech



### Keysen Property Management Services Limited

#### Company Background:

Langham Place is an integrated commercial development that comprises a 59-storey Grade A office tower located in Mongkok, one of the most densely populated districts in Hong Kong. The retail tower is part of Langham Place and is a 15-level, 590,000 gross sq. ft. vertical mall that offers a variety of shopping options for customers. Langham Place aims to be a trendy and sustainable landmark that adopts smart energy management solutions and different green operation practices to enhance and improve its energy efficiency and environmental performance continuously.

Keysen Property Management Services Limited, as the management office of Langham Place, design and provide property management services for Langham Place, including customer services, etiquette and quality and environmental system implementation, fire control, crisis management, relevant laws and policies, regulatory compliance, as well as social responsibility.

#### SMART Energy Project:

Langham Place was built in 2004. Although it was built almost two decades ago, the facilities have been continuously upgraded and features innovative technology. As the first mall in the property sector to receive the Excellence in Design for Greater Efficiencies (EDGE) certification, we understand that Langham Place has the potential to continuously optimize building performance, obtain more regionally recognized certifications to quantify its sustainable development achievements.

Our ongoing retro-commissioning and optimization work had been carried out to our chiller plant system to drive its energy efficiency performance, integrate sustainability into every facet of its operation through long-term strategies. Recently, our SMART Energy Project has enhancement at energy aspects, for instance, installation of additional solar panels to generate more renewable electricity, replacement of LED lighting, setting up EVs charging parking spaces, installation of new VSD chiller to operate higher coefficient of performance during mid-night and optimization of the automatic condensing water variable flow control and chilled water pump power optimization to lower the chilled water pump energy consumption.

The project performance for the installation of new VSD chiller is recognized by the CLP Smart Energy Award 2022 that 'Sustainable Vision Award' has been granted for our office tower. The projects performance of LED light replacement, automatic condensing water variable flow control and chilled water pump power optimization, is recognized by the Hong Kong Green Shop Alliance Award 2023 that 'Green Mall of the Year' has been granted for our shopping mall.

#### Love · Play · Farm:

Love · Play · Farm is a green community project at Langham Place L4, aimed at creating environmental and social impacts through multi-partnership to ensure a wellness-advocated environment for both stakeholders and plants and promote agric-tainment. With the participation of different stakeholders such as local farming expertise, tenants, local artists and NGOs, the project could to maximize the sustainable outcomes. Moving forward, we will continue to take the "Love · Play · Farm" programme forward by collaborating with our staff, business and community partners.

Attributed by effective resources utilization, Love · Play · Farm succeeded in playing a significant role for waste and carbon reduction, enhancing the environmental awareness among the involved stakeholders and there are more than 320 stakeholders engaged per year. The project performance is also bring recognized by: Green Council's UNSDG Achievement Awards Hong Kong 2023 – Individual SDG Award – Goal 17: Partnerships For The Goals; RICS Hong Kong Chapter – RICS Awards 2023 – Corporate Social Responsibility Project of the Year – Highly Commended; Green Shop Alliance 2023: Collaborative Project of the Year.





## Awardees introduction

### PropTech Solutions of the Year – ESG in PropTech



#### Aurabeat Technology Limited

##### Company Background

Aurabeat Technology, under the leadership of Dr. Roger Sze To, is a pioneer in energy-efficient and air purification solutions. With over 15 years of dedicated research in air quality, Aurabeat has developed patented technologies, including energy-saving sonic technology and AG+ silver ion disinfection technology.

##### Achievement of EcoSonic

Aurabeat EcoSonic Technology is a revolutionary solution that utilizes a designated frequency and patented sonic release technology, which can significantly enhance the efficiency of central air conditioning systems, at the same time delivers remarkable energy savings and substantial carbon footprint reduction. This patented technology earned certifications from prestigious institutions like WELL and recorded in the Retrofitting Guidebook of HKGBC. In fact, the EcoSonic Filtration Technology has been adopted in landmark buildings such as EMSD headquarters., New Custom HQ, Sun Hung Kai Centre, providing significant energy reduction while improving air quality. In 2022, Aurabeat was honoured with The World's Most Prestigious Sustainable Award by the Energy Global National Award.

The core innovation behind EcoSonic lies in its Sonic Emitters. By infusing the air with vigorous vibrations as it passes through the Filter Core, the technology significantly enhances the capture rate of the EcoSonic Filter and achieves at least 2 MERV ratings higher than conventional filters. With the complete implementation of the EcoSonic system, the AHU fan can operate at reduced speeds while still maintaining the same volume of clean air in the building. This optimization results in 15%-35% energy saving in HVAC systems.

These improvements in air purification and energy savings assist in attaining better scores in building certifications such as WELL, making properties equipped with EcoSonic technology more desirable. Such advancements are crucial for landlords and investors, who benefit from increased property values and potential for higher rental yields. The installation of Aurabeat EcoSonic filters into existing HVAC and data centre infrastructures is seamless, with additional customization options to meet specific installation requirements. The filters' compatibility and customization potential further add to their appeal, ensuring they meet the diverse needs of various facilities.

Aurabeat remains steadfast in its dedication to sustainable development and innovation. Through its products, Aurabeat contributes to cost reduction, improved building ratings, and healthier indoor environments.





## PropTech Solutions of the Year – ESG in PropTech



### Full Nature Farms (Hong Kong) Ltd

Full Nature Farms, initially operated as a greenhouse farm before transitioning to indoor vertical farming. During this shift, we observed a significant gap in the market for scalable and cost-effective technology, particularly in the areas of control and automation. Traditional systems often come with hefty price tags reaching into the millions of dollars.

In response, our engineering team has invested heavily in in-house research and development, with our ADAMS 3.0 controller at the forefront. ADAMS 3.0 serves as an all-in-one standalone IO Controller, offering an alternative or replacement to PLCs. Compatible with a broad range of IO devices and supporting multiple protocols, including 0-10v, RS485, and 4-20mA, this controller can be wirelessly connected, thereby eliminating the need for costly wiring and installation. Deployment times are considerably reduced as a result. The system also includes multiple IO ports, ready for immediate use, making integration of new devices and sensors a breeze.

Another standout feature is its energy efficiency. ADAMS 3.0 typically consumes less than 5 watts/hr, with a sleep mode that further reduces energy consumption, making it suitable for outdoor projects (powered by solar panels) across various applications.

The controller's open-sourced dashboard and control UI allow operators to easily customize layouts, avoiding the need for a locked-in ecosystem with recurring software subscription fees and maintenance costs. Third-party software developers can also be easily engaged for updates. Additionally, the software is lightweight, allowing it to be hosted on affordable mini NUC PCs, negating the need for expensive server racks.

With such an extensive suite of features, ADAMS 3.0 is poised to become a cornerstone technology within the PropTech and IoT sectors. Our decision to enter this market is further supported by the significant growth potential and the application of our vertical farming expertise.

ADAMS 3.0 has already made significant inroads, being deployed across various sectors, including government institutions, universities, and private companies. Plans for international expansion in 2024 are in motion.

The possibilities with ADAMS 3.0 are limitless, and we are excited to continue pushing the boundaries of technological innovation in the agricultural and beyond. With a shared focus on sustainability and achieving common ESG goals, ADAMS 3.0 serves as a vital tool for progress in a multitude of sectors, including PropTech and IoT.





## Awardees introduction

### PropTech Solutions of the Year – ESG in PropTech



#### City Facilities Management (HKG) Limited

City Facilities Management (HKG) Ltd offers comprehensive facilities management services that are tailored to the unique needs of businesses across a range of sectors such as retail, property owners, education, healthcare and more.

City combines nearly 40 years of management expertise in FM with hundreds of on-the-ground technicians to provide maintenance, engineering, procurement, project management, energy services, cleaning, waste management, security, and IT support, to the clients we serve in Hong Kong, Malaysia, and Singapore.

We are committed to protecting the environment and promoting sustainability. For example, in partnership with Dairy Farm International Group, who we have serviced since 2015, we work together to deliver ESG targets are to halve carbon emissions by 2030 and achieve carbon neutrality by 2050.

To support these goals, we have been at the forefront of adopting market-leading energy initiatives and implementing advanced refrigeration system designs never seen before in Hong Kong. Our innovative Smart Waterloo refrigeration system replaces traditional refrigerants with water and ultra-low GWP refrigerants, reducing consumption by up to 90% and minimizing leakage rates to just 2%. This leads to significant reductions in Scope 1 emissions. Equipped with highly efficient devices and IoT technology, our Smart Waterloo system optimizes fridge cooling, saving up to 40% energy. Real-time monitoring allows for further optimization, resulting in substantial reductions in Scope 1, 2, and 3 emissions.

Through our partnership with Dairy Farm International Group, we have achieved a remarkable reduction of over 75 million kWh in energy consumption for over 1,800 retail stores in the past three years. Upgrading over 100,000 pieces of equipment and utilizing IoT technology, we have improved system durability, efficiency, and response time to faults or alarms.

The impact of our Smart Waterloo refrigeration system and energy solutions is not only environmentally significant but also economically advantageous. Clients have experienced over HK\$50 million in electricity cost savings and reduced manpower requirements. In 2023 alone, we reduced Scope 2 emissions by 17,000 tons, with expected reductions of over 10,000kg of refrigerants and 23 million kWh, resulting in an overall reduction of more than 59,649 tons of CO<sub>2</sub>e emissions this year.

Join us in our commitment to a sustainable future. Contact City Facilities Management (HKG) Ltd today to learn more about our innovative solutions for facilities management. Together, we can make a lasting impact on the environment while serving the needs of businesses and communities.







## PropTech Solutions of the Year – Property Management



### Hong Yip Service Company Limited

Established as a wholly owned subsidiary of Sun Hung Kai Properties Ltd. (SHKP) in 1967, Hong Yip Service Company Ltd. (Hong Yip) remains one of Hong Kong's foremost specialist property and facilities management companies. We are now managing more than 1,700 individual building blocks, ranging from private estates and luxurious houses, commercial and industrial buildings, shopping centres, to government and school facilities. Sharing SHKP's commitment to "Building Homes with Heart" and the motto "Serving Customer with Heart", Hong Yip aims to provide ultimate management service with the integration of innovative technology and environmental protection management. Hong Yip will continue to provide a better living environment, to create a better lifestyle, and to build a better community for customers to enjoy.

Hong Yip strives to achieve its sustainability goal of "SERVICE FOR TOMORROW", which is driven by seven core values of "SERVICE", being the acronym for Social, Environment, Risk Management, Vendor, Innovation, Customer and Employee. With these seven core values, we would continue to strengthen our environmental, social and economic resilience in pursuit of sustainable growth, synchronizing with SHKP's development, with a view to providing a better living environment, creating a better lifestyle, building a more harmonious and healthier community.

We pledge to achieve "carbon neutrality" by 2050 and promote Hong Kong as a sustainable green city. We have demonstrated innovative leadership by introducing the "Concept of Sustainable Green City" to enhance living environment of customers. Besides continuously promoting landscaping, we also set strict environmental protection standards for properties to improve environmental performance and energy efficiency, for a green and sustainable living environment.

Hong Yip has implemented a series of initiatives to promote the adoption of renewable energy. 9,260 solar photovoltaic panels were installed, generating an annual electricity output of 3,960,000 kWh, equivalent to the electricity consumption of 1,200

Simultaneously, starting from July 2021, we have been purchasing Renewable Energy Certificates (RECs) from CLP Power Hong Kong for Hong Yip's training programs and designated significant events. These RECs serve to offset the electricity consumption associated with online and on-site training activities, as well as large-scale events. This demonstrates our strong support and active participation in the adoption of renewable energy and the Feed-in Tariff (FiT) Scheme.



## Awardees introduction

### PropTech Solutions of the Year – Property Management



#### Kai Shing Management Services Limited

Kai Shing Management Services Limited (Kai Shing), a member of Sun Hung Kai Properties, is a prominent property management organization in Hong Kong, responsible for overseeing a diverse range of properties in Hong Kong and China. Committed to promoting sustainable development, Kai Shing leverages advanced technologies to improve energy efficiency and sustainability in property management. To address challenges such as manpower shortages, repetitive tasks and maintenance needs of numerous buildings in the market, the management team of Kai Shing has developed an innovative solution called Augmented Reality Maintenance Management (ARMM) combined with Building Information Modeling (BIM) for daily operations.

ARMM combines the capabilities of a BIM platform and 3D scanning technology to enable connected and productive management work. It facilitates end-to-end management processes, empowering staff to initiate tasks, plan workflows, and seamlessly carry out their work on-site or remotely using augmented reality (AR) features.

ARMM provides daily patrolling, facilities checking, scenario training, and addressing mechanical breakdowns. Its mobile device-based solution allows the security team to create precise patrol routes and automate workflow processes, resulting in increased accuracy and safety. The maintenance team benefits from the AR interface, efficiently completing maintenance checklists and tracking their progress. Additionally, ARMM empowers senior staff to utilize AR for demonstrating work procedures, leading to more efficient and cost-effective training sessions.

The integration of ARMM and BIM encompasses various property management operations by establishing a common data environment (CDE) and a digital twin platform for storage. This effectively replaces traditional management practices and paper-based workflows. ARMM serves as an effective communication channel, enabling seamless interactions within and outside the organization, driving transformative advancements across departments. The specific benefits of ARMM include increased productivity in property management operations, cost-effectiveness in resource allocation and operation, improved asset management and predictive maintenance, enhanced user experience and personalized services, effective staff development and optimized manpower utilization, and a low initial cost.

By implementing ARMM with BIM, Kai Shing achieves connected and efficient work processes, transforming property management operations and offering more environmentally friendly, cost-effective, practical, and comprehensive solutions for property management.

Overall, ARMM with BIM is a testament to Kai Shing's commitment to innovation and sustainability, driving advancements in the property management industry and delivering enhanced operational efficiency and customer satisfaction.



# Awardees introduction



## PropTech Solutions of the Year – Property Management



### Propman Technology Limited

#### Propman: Simplifying Property Management with Technology

Propman is a leading software company founded in 2021, dedicated to assisting Property Management Companies, Landlords, and Developers in efficiently managing their tenants through innovative and user-friendly technology solutions. By combining AI, mobile applications, and chatbots, we offer a comprehensive suite of tools to streamline property management processes.

With an impressive clientele that includes renowned industry leaders such as New World Development, K.Wah, China Overseas, HENDERSON, EMPEROR GROUP, and Wang On Properties, Propman has established itself as a trusted partner in the real estate sector.

At Propman, we strive to provide all-encompassing solutions tailored to the unique needs of property developers and management companies. Our software platform offers a wide range of features, empowering users to handle tenant management, property maintenance, financial transactions, and more, all from a single, intuitive interface. We understand the challenges faced by landlords in managing their properties, and our value-added services are designed to alleviate the burden and enhance efficiency.

Our vision is clear: to eliminate the complexity and difficulties associated with property management worldwide. We are committed to leveraging technology to create a future where every property, regardless of size or location, can be managed seamlessly. By automating routine tasks, optimizing communication channels, and leveraging AI-powered insights, Propman enables property professionals to focus on strategic decision-making and delivering exceptional experiences to tenants.

With a customer-centric approach and a team of dedicated professionals, we continuously refine and enhance our solutions to meet the evolving needs of the industry. Propman is proud to play a pivotal role in shaping the future of property management, driving efficiency, and transforming the way properties are operated, ultimately benefiting both property owners and tenants.

Experience the future of property management with Propman, where technology meets simplicity and effectiveness.



## Awardees introduction

### PropTech Solutions of the Year – Property Management



#### Kerry Property Management Services Limited

Kerry Property Management Services Limited (KPMSL), a subsidiary of Kerry Properties Limited, is one of the leading property management company in Hong Kong. In the face of economic challenges and the urgent need to combat climate change, KPMSL has embraced a wide range of new technologies and innovations to enhance operational efficiency and exceptional customer service.

One notable achievement is the development of the Kerry Living app, a comprehensive property management service that offers residents a seamless experience. The app provides residents with access to important estate information, facility and interest class booking, payment gateway, etc. It also offers a convenient "Parcels Collection" feature, providing residents with instant notifications for parcel pickups, simplifying the process and improving communication.

KPMSL has also demonstrated its commitment to sustainability by implementing innovative energy efficiency systems. The eClean energy efficiency system, implemented at Kerry Centre, has resulted in over 15% energy efficiency improvement through the use of Balanced Wave Technology and Variable Speed Drive. Additionally, the IntelliDim lighting control system has been deployed, enabling energy-efficient lighting control through smart sensors and user-friendly app control.

In terms of building maintenance and safety, KPMSL has adopted an AI-powered Drone Solution for external wall inspections. This technology has significantly improved inspection accuracy and efficiency, enabling the detection of hidden defects and facilitating preventive maintenance schemes.

The implementation of various innovative solutions reinforced the achievements, including Smart Handover System & App, WireScore certification, Cashierless Convenience Store, real-time IAQ monitoring systems, and online platforms for process control and data management. These demonstrate KPMSL's commitment to leveraging advanced technologies and streamlined processes to enhance efficiency, convenience, and the overall experience for residents and stakeholders.

KPMSL's dedication to leveraging technology and innovation has resulted in markable achievements in various aspects of property management. From various systems adopted above, KPMSL has demonstrated its commitment to deliver exceptional services while prioritizing sustainability and customer satisfaction.



# Awardees introduction



## PropTech Solutions of the Year – Property Management



### Alpha AI Technology

Alpha AI specializes in **Drone Inspection** and the creation of **3D Digital Twins of Buildings**, combined with **Temporal-AI Analysis** that tracks the concrete wall changes over time. Our advanced technology allows us to utilize extensive data to identify and predict hidden defects such as spalling, cracks, rust, and water seepage.

With our AI-powered platform, companies can easily generate comprehensive inspection reports, reducing the building inspection process from 30 days to just 1 day. Furthermore, our AI enables the reconstruction of a building 3D model, facilitating operators in easily locating damaged areas with precision.

This efficiency improvement revolutionizes maintenance practices and enhances data management for property management companies.

Our drones are applicable in various environments, both outdoors and within confined spaces.

Outdoors:	Confined spaces:
<ul style="list-style-type: none"><li>– Buildings</li><li>– Roads and bridges</li><li>– Rooftops, and</li><li>– coastal areas</li></ul>	<ul style="list-style-type: none"><li>– Drainage works</li><li>– Tunnels</li><li>– Yards</li><li>– Glass facades</li><li>– False ceilings</li></ul>

The use of drones and AI significantly reduces costs associated with traditional inspection methods by 50%. It can also minimize the need for manual inspections in high-risk areas.

We are delighted to conduct the PoC product with the Architectural Services Department (ArchSD) to detect over 50 buildings in the old district of Kowloon City and Mong Kok. We are also proud to have the PoC collaboration with Hong Kong Housing Society under the Cyberport x HKHS PoC Scheme to enhancing the inspection technology, providing safe and sustainable housing for the community.

Alpha AI Technology Limited offers a complete range of development services, including AI inspection, drone operation and CCTV video analysis. Our mission is to digitalize and enhance the maintenance of building structures, ultimately leading to a safer city. We are an incubatee of the Cyberport Incubation Program, awardee of the City University HK Tech 300 Angel Fund, a startup supported by EthAum SG Venture Partners, and the partner of the Nvidia Inception Program.





## Awardees introduction

### PropTech Solutions of the Year – Sales and Marketing



#### Midland Realty

##### Company Background:

Established in 1973, Midland Realty is a leading property agency group in Hong Kong, fully owned by Midland Holdings – the first agency group listed on the Hong Kong Stock Exchange since 1995. With an unwavering commitment to excellence, we provide a seamless one-stop solution, encompassing mortgage, immigration, financing, and investment services for our customers.

Driven by innovation, we introduce cutting-edge PropTech applications to enhance customers' experience throughout their property investment journey, helping them achieve their dreams of a prosperous future. Our relentless efforts have played a pioneering role in industry digitalization and groundbreaking service enhancements.

As we celebrate our 50th anniversary, we continue to lead the transformative revolution by integrating platforms, talent, and technology, shaping a new era of exceptional property agency services.

##### Project Description:

Midland's AI – VR Interactive Property Tour: Transforming Property Viewing with Integrated Technology Applications

By seamlessly integrating VR, AR, and AI, Midland provides an immersive property search experience. Advanced features like 2D Floorplan, 3D Dollhouse View, and AI measuring rulers offer accurate measurements and a comprehensive understanding of property interiors. The one-click AI decoration feature generates multiple indoor designs, saving time and enhancing property appeal.

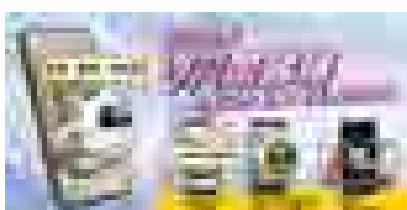
The Agent Live Guide utilizes mixed reality and 4K cameras to enable remote property viewing and real-time collaboration through platforms like WhatsApp. This improves the buying and renting experience while streamlining decision-making for customers.

Our data-driven personalization approach analyzes behavioral data during property tours to predict probable buyers and tenants. Personalized recommendations increase conversion rates and improve customer satisfaction. By leveraging persona data cross-mapping, it helps us accurately identify the most probable buyers for its property portfolio.

The AI – VR Interactive Property Tour has delivered remarkable results. With over 5 million VR views and 80,000 new VR tours annually, VR adoption has significantly increased. More than 40% of online listings now feature VR tours, leading to a remarkable 320% boost in goal conversion rates. Agents utilizing online VR listings have seven times higher chances of successfully closing deals compared to those without such interactive listings.

By streamlining the property search and transaction process, the solution saves time and effort for buyers, sellers, and agents, achieving a win-win-win situation. These achievements solidify Midland's leadership position in the digital era, enhancing transaction efficiency and delivering exceptional property services.

For the next step, we aim to further develop a self-sustained PropTech ecosystem by extending the virtual tour throughout the industry chain, including interior design and renovation business units. Spatial computing revolutionizes property data collection, creating powerful virtual experiences for every real estate journey.





## PropTech Solutions of the Year – Tenant Engagement



### Metersquare Limited

Established in 2019, Metersquare stands at the forefront of innovation, driven by a team of skilled professionals committed to refining work processes and communication within the real estate sector. Through close collaboration with property development experts, we have gained invaluable insights into their daily challenges and needs, serving as the cornerstone for our ground-breaking solution – M2 Solution Suite.

This suite represents a revolutionary step forward in digital transformation for tenant and property management. By seamlessly transitioning complex offline work processes and practices into a simplified online experience, it not only addresses existing pain points but also anticipates and meets the pressing demands of the industry.

At its core, the M2 Solution Suite is an advanced, cloud-based platform designed to cater not only to digital construction and property information but also to prioritize tenant management. Its four modules – M2 Inspect, M2 Handover, M2 E-Resident, and M2 Facility Management – work in tandem to enhance the tenant experience and streamline interactions with property developers and managers throughout the entire property lifecycle.

The suite's success is undeniable, boasting a proven track record across 20+ property sites, where it has managed over 10,000 units and processed upwards of 1,000,000+ defects. Trusted by top property developers, main contractors, and property management firms alike, our solution stands as a testament to its reliability and effectiveness in ensuring the highest quality standards in the built environment.

Beyond its current capabilities, our commitment to innovation drives us to continually enhance the M2 Solution Suite. For instance, we are in the process of developing an AI-Chatbot assistant into the Owners App, providing homeowners/tenants with round-the-clock customer service while allowing our team to focus on more complex cases.

Looking ahead, as new residential, commercial, and government projects unfold, we anticipate an even greater demand for digital transformation solutions. The M2 Solution Suite is well-positioned to meet this demand, poised to further solidify its standing in the market.

Furthermore, our proactive approach includes forging partnerships with IoT hardware vendors to integrate smart living elements into projects from their inception. This holistic approach not only enhances the living conditions for homeowners/tenants but also equips facility management companies with the tools needed for effective monitoring, timely precautions, and efficient repairs, ultimately striving towards the realization of smart living in smart buildings.



## Awardees introduction

### Company/Individual Awards of the Year – PropTech Integration Company of the Year



#### Electrical and Mechanical Services Department

##### Project Description

The work of Electrical and Mechanical Services Department (EMSD) covers two portfolios. Firstly, the Regulatory Services arm of the department ensures electrical and mechanical (“E&M”) safety for the public and promotes energy saving by enforcing 15 E&M related ordinances including electricity, gas, lifts and escalators, railway, and energy efficiency for public safety and energy conservation. Secondly, the Trading Services arm provides one-stop professional E&M engineering services to government departments and public organisations, covering over a million systems and 8000 venues.

With the pro-innovation government procurement policy launched in 2019, the EMSD assumes a further role as the government Innovation Facilitator to support departments in identifying innovative engineering solutions. In our Trading Services’ 5-year Strategy Plan formulated in 2018, a clear roadmap for the department to head towards E&M 2.0 was charted – E&M 2.0 is a term we commonly use to mean “digitalised E&M solutions with I&T”. The Plan tackles the challenges and opportunities arising from technology advancement, and rising public expectation on quality of public services, productivity, safety and sustainability, etc.

To facilitate I&T project development, the E&M InnoPortal was launched to match suitable I&T solutions from startups, SMEs, and academia to address the needs of government departments.

Signature projects under the Plan include the development of the Building Information Modelling – Asset Management (BIM-AM) platform and Government-Wide IoT Network (GWIN) as the core foundation for facilitating the provision of digitalised E&M services. Furthermore, over 400 major government buildings are being digitalised, and Regional Digital Control Centres (RDCC) are built to empower real-time monitoring to enhance E&M assets’ operational efficiency and performance.

With the application of IoT technologies, EMSD has been developing a dedicated IoT network, namely GWIN, to deploy smart IoT sensors for digitalising E&M assets in government buildings and venues as well as supporting other smart city applications since 2019. With the integration of near real-time sensor data captured by GWIN, the BIM-AM System was enhanced to support the remote monitoring function for E&M equipment in achieving smart building O&M. In order to enhance our maintenance work, we have established RDCC, integrating digitalised equipment status from GWIN sensors and Building Management Systems so that our staff can centrally perform remote monitoring in multiple venues in real-time. With the advancement of AI technology, we can also perform big data analytics on the huge volume of operational data collected to enhance building efficiency and environmental performance.

With the success of E&M 2.0, EMSD is now moving ahead with E&M 3.0, focusing on providing intelligent E&M solutions and services to enhance service quality.





# Awardees introduction



## Company/Individual Awards of the Year – PropTech Integration Company of the Year



### Gammon Construction Limited

#### Company background:

Based in Hong Kong, Gammon has established itself as a company renowned for its exceptional project delivery across China and Southeast Asia. Our comprehensive business operations encompass various sectors, including civil, building, foundations, electrical and mechanical, facades and interiors works, as well as design. Furthermore, our construction services division boasts extensive capabilities in plant and steel fabrication, as well as concrete production. We take pride in our robust building information modelling department, as well as our dedicated digital entity that actively seeks to maximize the commercial potential of our innovative solutions.

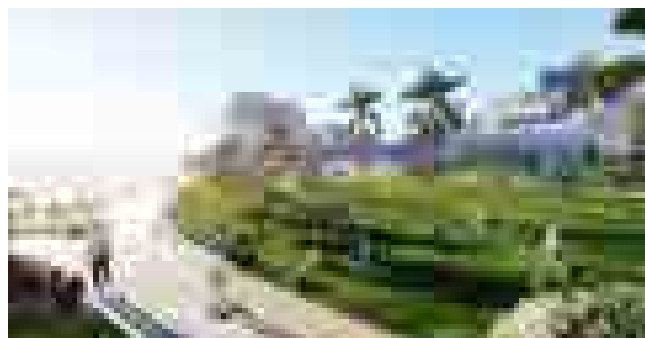
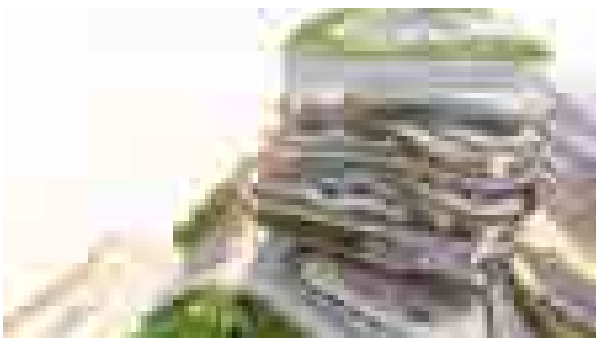
#### Project description:

The Cyberport Expansion Project (CPX) is an ambitious endeavour that entails the construction of Cyberport Phase 5, a cutting-edge office building situated at a prime waterfront location spanning approximately 1.6 hectares northwest of the waterfront park. This ten-storey architectural marvel boasts a total gross floor area of around 66,000 m<sup>2</sup>, meticulously designed to cater to the evolving needs of Innovation and Technology (I&T) start-ups. It encompasses modern office spaces, collaborative co-working areas, a state-of-the-art data services platform, a versatile multi-function hall, and a range of supplementary facilities.

This visionary development not only elevates the existing waterfront park's environment and amenities, but also introduces captivating features. A waterfront promenade is being constructed, complemented by meticulously re-laid turf and the addition of pet-friendly and intelligent facilities that align with future needs. This innovative design seamlessly integrates the Cyberport waterfront park with the adjacent promenade, ensuring unobstructed views and preserving essential wind corridors throughout the proposed development. The result is a beautifully landscaped open space that beckons the public to indulge in leisurely pursuits.

To enhance connectivity and foster a vibrant sense of community, the project includes the construction of new footbridges that seamlessly link the new Cyberport 5 building with the existing Cyberport campus. This thoughtful design not only improves pedestrian circulation but also facilitates a dynamic and cohesive environment that encourages collaboration and interaction among stakeholders. Furthermore, the lower floors of the new building will house a diverse array of public amenities, including retail outlets and dining establishments, providing an enhanced recreational experience for visitors and the general public.

Scheduled for completion by end 2025, this visionary project promises to deliver an exciting and transformative space for start-ups and the wider community alike. It stands as a testament to Cyberport's unwavering commitment to driving innovation and technology development in Hong Kong, creating an ecosystem that nurtures growth and fosters the spirit of innovation.





## Awardees introduction

### Company/Individual Awards of the Year – PropTech Integration Company of the Year



#### Hong Yip Service Company Limited

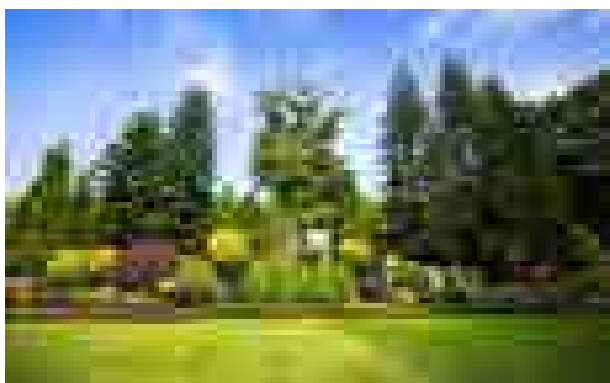
Established as a wholly owned subsidiary of Sun Hung Kai Properties Ltd. (SHKP) in 1967, Hong Yip Service Company Ltd. (Hong Yip) remains one of Hong Kong's foremost specialist property and facilities management companies. We are now managing more than 1,700 individual building blocks, ranging from private estates and luxurious houses, commercial and industrial buildings, shopping centres, to government and school facilities. Sharing SHKP's commitment to "Building Homes with Heart" and the motto "Serving Customer with Heart", Hong Yip aims to provide ultimate management service with the integration of innovative technology and environmental protection management. Hong Yip will continue to provide a better living environment, to create a better lifestyle, and to build a better community for customers to enjoy.

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# Awardees introduction



## Company/Individual Awards of the Year – PropTech Integration Company of the Year



### Jones Lang LaSalle Limited

#### Project Introduction:

JLL is a global financial and professional services firm that specializes in providing commercial real estate services and investment management. With over 91,000 employees spread across 300 corporate offices worldwide, we cater to the local, regional, and global real estate needs of corporations and investors in more than 80 countries.

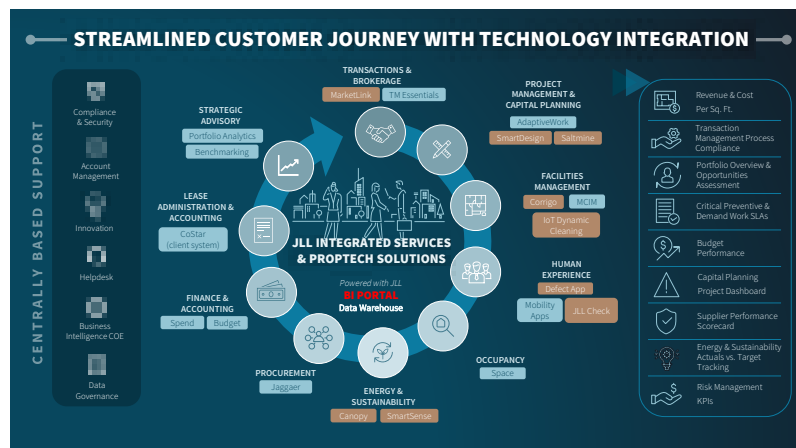
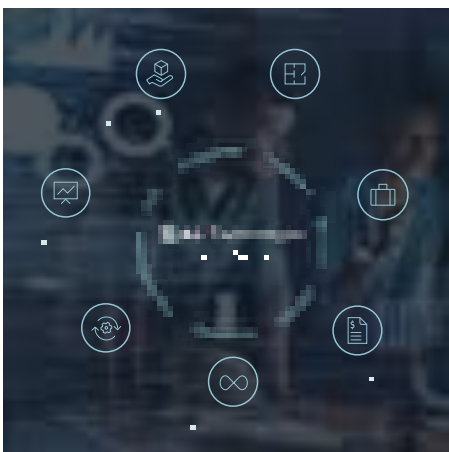
We are committed to being at the forefront of PropTech development. Our senior management actively participates in industry events and workshops, collaborating with industry leaders to stay ahead.

Our team of world-class technologists, known as JLL Technologies (JLLT), works closely with our clients to modernize real estate approaches and enhance workplace experiences. With investments exceeding USD 4 billion in people, data, and PropTech solutions, we have implemented technology across 14 billion square feet of space.

Our technology offerings streamline our clients' journey throughout the entire commercial real estate cycle by offering tailored smart solutions for various business purposes.

Examples of our technologies include AdaptiveWork and SmartDesign for project management and capital planning, Corrigo and MCIM for facilities management, and JLL Check for human experience. In addition, we provide tailor-made solutions for different business units, including occupancy management, energy and sustainability, procurement, finance and accounting, lease administration and accounting, as well as strategic advisory.

By integrating technology and smart solutions, JLL is committed to enhancing our clients' experience in commercial real estate and shaping a better future for the industry.





## Awardees introduction

### Company/Individual Awards of the Year – PropTech Integration Company of the Year



#### Jones Lang LaSalle Management Services Ltd.

Jones Lang LaSalle Management Services Ltd. (“JLL”) was established in 1981 to provide top of the class Property Management service to various types of buildings all over Hong Kong.

As a pioneer in property management in Hong Kong, JLL continuously sets new industry standards by applying global best practices, proven engineering capabilities and the latest PropTech solutions to the management of the properties in our portfolio.

Our commitment to embracing PropTech solutions has revolutionized our operations, enabling us to deliver exceptional services and stay at the forefront of the industry. We firmly believe that our comprehensive integration of PropTech solutions positions us as a leader in driving innovation and setting new standards in property management.

#### Command Centre

The property management sector has historically been very labor intensive, making it prone to handle incidents at once apart from regular scheduled patrols. In order to address this challenge, we have implemented cutting-edge IoT sensors known as the Command Centre IoT sensor (“Command Centre”).

Command Centre deployment utilizes cutting-edge 5G technology, eliminating the need for disruptive installation methods and resulting in significant cost savings. By leveraging the power of 5G connectivity, we have overcome the limitations of traditional wiring and infrastructure requirements, streamlining the installation process while ensuring seamless data transmission and real-time monitoring capabilities.

Additionally, the use of 5G connectivity ensures a robust and reliable connection, enabling continuous data collection and transmission for accurate monitoring and analysis. With the implementation of Command Centre, our clients can immediately benefit from several advantages, including zero capital investment in startup costs for wiring and building works related to the sensor system, comprehensive 24/7 instant alerts to our duty phone, and continuous monitoring by JLL's self-manned 24-hour customer service centre, ensuring timely alerts and actions.

Starting from 2020, we have now installed over 2,300 nos. of IoT sensors in 200+ buildings which make us become one of the largest IoT platform in Hong Kong.

The JLL Command Centre is designed to continually evolve alongside emerging technology features and possibilities, ensuring that automation becomes more sophisticated and enabling the industry to stay at the forefront of new trends in building automation and energy management.



# Awardees introduction



## Company/Individual Awards of the Year – PropTech Integration Company of the Year



### NTT Com Asia

In recent years, digital transformation has been an emerged as a significant trend across various sectors. Companies are actively seeking efficient ways to digitize their business operations and meet evolving customer demands. Property owners, facility developers and real estate players are keen to equip themselves for the implementation of digital technologies and explore optimization possibilities in managing their operations.

NTT is committed to and has made substantial investments in innovative facility management solutions, addressing the evolving demands to enhance facility performance and deliver premium services that lead to heightened customer satisfaction. Specifically, in Hong Kong, NTT Com Asia (NTT) has locally self-developed a multi-stack facility management solution and IoT solutions. These solutions have been successfully deployed within our data centers and office buildings, streamlining facility operations and data management through digital means.

Key features of the solution include:

1. **Flexibility and Openness:** Our system operates on a flexible and open platform, allowing seamless integration with IoT devices, machine analytics, and other advanced technologies.
2. **Data-Driven Insights:** By integrating data configuration, collection, visualization, and automated calculation, our solution provides full visibility into operating assets.
3. **End-to-End Building Management:** From initial data capture to ongoing operations, our solution facilitates efficient building management processes.

Leveraging automated monitoring and management tools, NTT's facility management solution oversees critical aspects such as power, cooling, HVAC, and security. Operators gain centralized control over multiple data center buildings through a single-pane-of-glass interface. By streamlining workflows and optimizing maintenance processes, this solution significantly reduces facility management workloads and supervision. Moreover, it empowers operators to unlock the full productivity potential of their data centers.

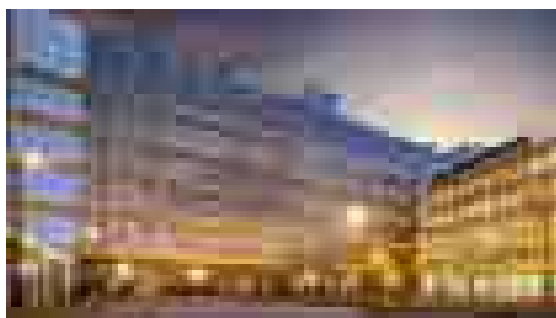
As we look ahead, NTT remains committed to enhancing the facility management solution, harnessing its capabilities to drive Smart Property use cases and contribute to our digital future.

#### About NTT

As part of NTT Group, a world-class leader in telecommunications and ICT services, NTT Com Asia Limited ("NTT") is dedicated to delivering the best ICT infrastructure and disruptive technologies with the vision to enable a smarter world.

Riding on the leading enterprise mobile technology from docomo business in Japan, we are bringing cutting-edge and ready-to-market IoT, AI and other digital solutions to support enterprises to develop a mobile-first strategy in their digitalization journey.

For more information, please visit [www.ntt.com.hk](http://www.ntt.com.hk)





## Awardees introduction

### Company/Individual Awards of the Year – PropTech Integration Company of the Year



#### York Joint Design and Construction Co. Ltd.

York Joint is a civil and green social enterprise that provides engineering and safety consultancy, design, and construction services in Hong Kong, with plans to expand globally. Our core values of "integrity, safety, and excellence" guide us in creating first-class ESG, SDG, social innovation and technology engineering projects.

We work closely with our business, social enterprise, and NGO partners to align stakeholder interests and deliver shared ESG values under four pillars: Workplace, Marketplace, Environment, and Community. As a unique professional engineering firm registered in both HKSAR WSD, EMSD, and the CIC as a qualified Contractor and Social Enterprise in both HAD and HKCSS, York Joint aims to provide job opportunities for the betterment of underprivileged communities. In addition to our team of professional staff, we have recruited over 100 candidates from ex-offenders, ethnic minorities, and people with disabilities in Hong Kong, for the project of HKSAR Government, Disney Land, HK Land, and Gammon Construction, with contribution of 6.2 million in MPF.

In the light of ESG, SDG, and cross-sector collaboration, we partner with different parties in business and social sectors, to formulate projects via design thinking to tackle the pain points of society and industry. In 2018, targeted pain point of the shortage of labour in the Construction field and the unemployment rate in underprivileged groups, we offer ethnic minorities & ladies, ex-offenders, on-job training in construction field, partnered with The Society of Rehabilitation and Crime Prevention and the HKSAR CSD. Now, with our successful field experience on our ethnic minorities and ladies qualified safety supervisor and skilled worker, "SALUS – 1st Person View AI Smart Site Safety System", a Smart Site Safety System have been formulated to combat the site accident, to empowers the underprivileged group and to establish safety knowledge management system, partnered with CityU and Pong Yuen.



## Company/Individual Awards of the Year – PropTech Emerging Talent Award



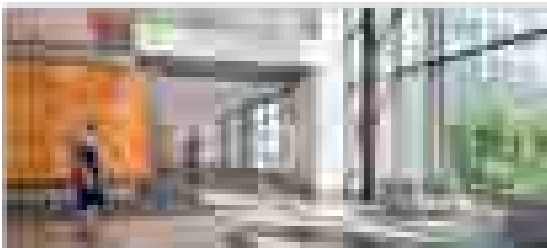
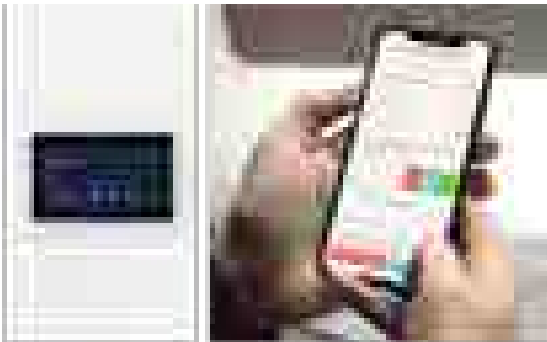
### Aura Labs Limited

Aura Labs is an award-winning PropTech company that focuses on digital transformation in the real estate industry. Our main objective is to help CRE enterprises unlock value from their property assets through digitization. We strive to achieve outcomes such as improved operational efficiency and enhanced tenant and visitor experiences in any built environment.

Our portfolio centers around SeerOS, a building operating system that seamlessly integrates building data and systems onto a unified platform for control, automation, data disclosure, and management. By leveraging SeerOS, our clients have achieved remarkable results, including significant energy savings (up to 8-25% in costs and emissions) and streamlined operational processes (with facility management workflows reduced by up to 28%).

SeerOS's core technology lies in the implementation of BIM, integration of building systems, and processing of building data to create a digital twin of a property for management and operations. One key use case is connecting SeerOS with a building's BMS to enable precise HVAC and lighting control. SeerOS combines control with a sensory network of IoT presence sensors to achieve energy savings, such as adjusting air volume when occupancy is low or turning off lights in unoccupied workspaces or rooms. Additionally, SeerOS provides valuable insights, allowing operators to understand real-time occupancy, average energy consumption, peak hours, and more. This information is presented in an intuitive interface for tenants to control their workspace environment and an operational portal for facility managers to effectively maintain building space.

With a proven track record, Aura Labs solutions have been deployed in 40 properties across seven major global cities, covering a total area of over five million square feet. Our esteemed clients include Tencent Binhai, Taopu AI Park, Kai Tak Sports Park, Airside, and many others.





## Awardees introduction

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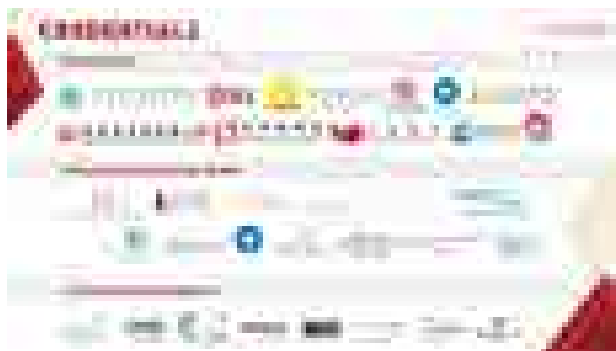
#### Butler

Butler is an AI-powered CRM enterprise SaaS solution that revolutionises communication and workflow for all stakeholders in the property industry. The innovative platform, Butler Management System (BMS), enables partners to enhance efficiency and elevate tenant experiences by seamlessly integrating with popular communication channels such as WhatsApp. Instantly transforming a communication tool into a productivity tool.

The innovation behind Butler lies in leveraging WhatsApp for end-users, providing dynamic user experiences, optimizing customer relationship journeys, and elevating living experiences. With AI technology, Butler can automatically capture WhatsApp conversations and transform them into actionable tickets for staff/admin with summaries, categories, urgency levels, and even staff assignments with smart reminders. This digitalization and streamlining of operations enhance transparency, accountability, and save staff time spent on handling customer/resident queries.

The dynamic CRM, BMS, offers a range of functions and features, including auto queries management, Vesta Chatbot, broadcast messaging, and more. By providing customizable features like AI auto queries management and an industry-specific AI Chatbot, Butler ensures streamlined operations and improved customer service. Additionally, BMS goes beyond these capabilities by providing valuable business intelligence and aggregate benchmark data on staff performance, resident query categories, and trending themes. This empowers property partners to seize unique opportunities and further enhance their operations.

Since the product's recent establishment, Butler has powered over 100,000 property units across Asia, delivering time savings of up to 60% for our partners. The platform has earned the trust of industry leaders such as JLL, Henderson Land, New World Development, Savills, and more. Our platform has been recognized with multiple awards, including being named a Gold Award of 2023's HKICT Smart Lifestyle award, Cyberport's hall of fame and Global finalist in Alibaba's Pitching Competition.







## Company/Individual Awards of the Year – PropTech Emerging Talent Award



### Mr JIANG Hao

Ir Eric JIANG is currently working as Senior Manager for Industry Development in Construction Industry Council. Prior to joining CIC, he is a Research Fellow of the Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) in The Hong Kong Polytechnic University.

As a Chartered Engineer, Ir JIANG is also a Corporate Member of the HKIE in Materials Discipline, with more than 14 years of R&D and industry experience in modular integrated construction, high performance materials and construction technology. In addition, he is professional member in different international institutions such as IOM3, ASCE, ASME, CSCE IES and HKIoD. And he is also serving as council member of IOM3 HK Branch, vice president of ASCE Greater China Section, observer of HKIE Materials Division and vice president of Hong Kong Young Scientist Association.

Ir Eric JIANG has various publications/articles/patents and different awards including Green Building Award 2021 and CIC Construction Innovation Award 2022 as the co-investigator. And he is also serving as reviewers of international/local journals. In 2023, he was awarded ASCE Greater China Section Outstanding Young Engineer Award. Ir Eric JIANG is Hong Kong Member of Youth Federation of Chongqing and Hong Kong Member of Guangdong Provincial Association of Science and Technology.



# Acknowledgement

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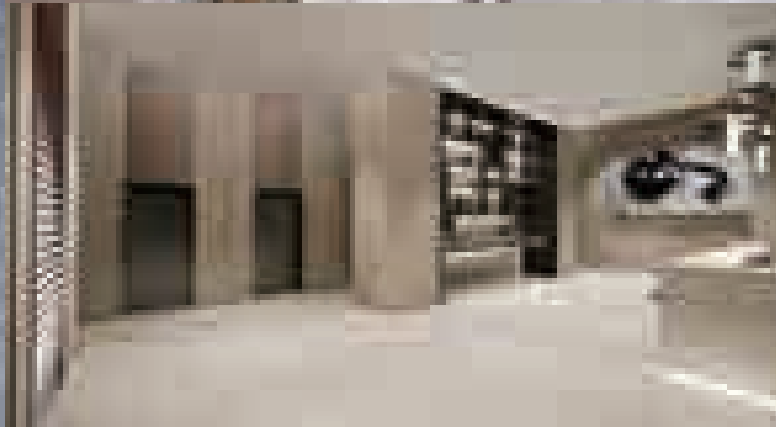
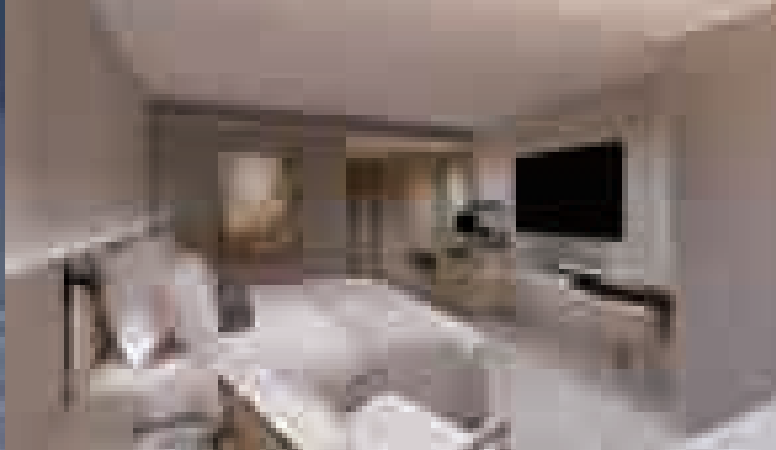
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Hong Yip Service Company Ltd.

Hong Yip Service Company Limited was established in 1967. As a member of Sun Hung Kai Properties Group, Hong Yip has consistently advocated the motto of “Serving Customers with Heart” and has continuously strived to provide the most ideal and advanced services in property management.

We incessantly maintain a creative workplace culture and develop more innovative applications to create a vibrant environment for customers and communities.



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HKIA is transforming from a city airport into an Airport City. The Airport City vision involves rigorous development in many aspects – core passenger and cargo services, multimodal regional connectivity, retail, hospitality and entertainment. The Airport City will be a destination in itself, a driver for local and regional business growth, a centre of technovation and a high-value cargo hub which turbocharges HKIA's role as a growth engine for Hong Kong.

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### ABOUT US

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We provide the smart building solutions and technology to enhance the productivity, safety, and efficiency of your property. We provide the smart building solutions and technology to enhance the productivity, safety, and efficiency of your property.

### WE PROVIDE

A multi-functional comprehensive open platform and a variety of robust features for property management. Here are several main applications:

- Neuron IoT Hub
- Neuron Energy
- Neuron Sustainability
- Neuron Digital Twin

With our smart building solutions, building operators will benefit greatly and achieve reduced management efforts.



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