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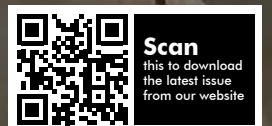
January / February 2019

SEAB

SOUTHEAST ASIA BUILDING

Jurong Town Hall Singapore

ARCHITECTURE + INTERIOR • Preservation, Conservation & Restoration
ARCHITECT'S CORNER • Interview with Ms. Esther An, Chief Sustainability Officer
at City Developments Limited



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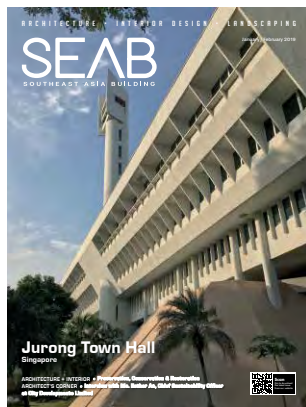
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On the Cover: Jurong Town Hall in Singapore. Photo: © Urban Redevelopment Authority

Cover design by Fawzeeah Yamin

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- Mechanical & Electrical Services [NEW] – Mechanical, Electrical and Plumbing

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Southeast Asia Building is available free-of-charge to applicants in the building industry who meet the publication's terms of control. For applicants who do not qualify for free subscription, copies will be made available, subject to acceptance by the publisher, for a subscription fee, which varies according to the country of residence in the following manner:

Annual Subscription

Airmail: America/Europe – S\$170, Japan, Australia, New Zealand – S\$170, Asia – S\$140, Brunei – S\$90, Malaysia – S\$90

Surface mail: Singapore – S\$45

(Incl 7% GST Reg No: M2-0108708-2)

Printed in Singapore by KHL Printing Co Pte Ltd

MCI (P) 098/07/2017 KDN No: 1560 (1270) – (6)

ISSN 2345-7066 (Print) and ISSN 2345-7074 (E-periodical)

Trade Link Media Pte Ltd also publishes:

- Bathroom + Kitchen Today
- Lighting Today
- Security Solutions Today
- Southeast Asia Construction

SOUTHEAST ASIA BUILDING is published bi-monthly by:

Trade Link Media Pte Ltd, 101 Lorong 23, Geylang, #06-04, Prosper House, Singapore 388399

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Editorial e-mail: seab@tradelinkmedia.com.sg

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Exactly one year, we had revamped the design of *Southeast Asia Building* and since then the feedback from our readers on the new look has been very encouraging. We will continue to make improvements to the magazine both to the pages and to the content.

The theme for this issue is on conservation and restoration architecture. More and more old and historical buildings and even monuments in Asia are undergoing modern facelifts. The main reason is to extend the life of the buildings as well as to add beauty to them. In some cases, it is to foster stronger community bonds by giving people a common place to hang out together. In the articles, you will be pleasantly surprised by how architects have cleverly preserved the look and history of the projects.

In the interview section, we speak to Ms. Esther An, Chief Sustainability Officer at City Developments Limited, who was recently conferred the honour of being one of the 2018 UN Global Compact Sustainability Development Goals (SDG) Pioneers by the United Nations Global Compact (UNGC).

We hope you enjoy reading this issue. On behalf of the SEAB team, I wish you a very Happy New Year and best wishes for 2019!

Amrita Natverlal



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By  Hydro

Broadway Malyan master plans new buildings for university

Singapore – Broadway Malyan has designed the concept for two new university buildings in Indonesia.

The Innovative Programme Centre (IPC) and Teaching Hospital are both part of Soegijapranata Catholic University's (known as



Photo: © Broadway Malyan

Unika Semarang) new BSB City masterplan in Semarang.

Ben Somner, Director of Architecture at Broadway Malyan, said: "With the design we wanted to create a modern, simple facade that primarily responded to the tropical climate, but also considered and referenced local culture and architectural styles. It was essential for the facade to provide lots of shading, with the fins angled so that they block the hot east and west sun, but allow north-south daylight."

Gardens and courtyards provide additional cooling by allowing air to circulate and also create social spaces for relaxation and collaboration outside of lessons. There are also large double height breaks in the facade filled with greenery, to allow cross ventilation of the blocks and courtyards. The facade also takes the Angklung as a source of inspiration. The interiors will provide a mix of exposed concrete and wooden panelling and detailing, with plantings throughout. This will create a link between the inside and outside, through a minimal design that uses nature for colour and decoration.

DP Architects and Eutech to jointly develop smart solutions for the built environment

Singapore – DP Architects and its group of companies, and Eutech Cybernetic, signed an MOU on 23 November 2018 to jointly develop Smart solutions for the building and real estate industry.

This exclusive partnership follows DPA's larger *designINTELLIGENCE* strategy to push design boundaries through innovation and to further enhance its delivery through technology. The collaboration with Eutech, a leading global digital infrastructure provider, means that DP Architects, Singapore's largest architecture practice, will be able to incorporate Smart solutions in their building designs that allow clients and building owners to manage data from different monitoring devices using an open digital platform.

Currently, smart technology systems by different providers do not communicate with each other. Eutech is the first in the world to digitally design, implement and operate smart buildings and smart precincts on a single platform through its flagship software, *iviva*. The MOU means that DPA and Eutech will jointly custom design holistic Smart solutions that simplifies building maintenance. The technology enables the interfacing of energy, security, health and safety, facility management solutions, sensors and Internet of Things, so that they can be managed on a single digital platform.

The partnership complements the existing culture of collaboration that DP is built on while opening up opportunities for a new standard in smart design. The move to marry design and technology is both timely and strategic for the



From left: CTO of Eutech Mr Bandu Wewalaarachchi, CEO of Eutech Dr Hari Gunasingham, CEO of DP Architects Ms Angelene Chan and director of DPA's specialist arm, DP Sustainable Design Mr Yong Siew Onn after signing the MOU at DP's designFUTURE Conference. Photo: © DP Architects

two companies. It is a response to rising demand for new or existing buildings to drastically reduce fault reaction time, amidst increasing focus on sustainability through improved energy-efficiency and resource allocation.



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Architectural firms B+H and SAA join Surbana Jurong Group

Singapore – Surbana Jurong has formed one of the largest architectural groupings in the world with the joining of two leading architectural firms, Canadian-headquartered B+H and Singapore-headquartered SAA, as member companies. It has also entered into a collaboration agreement with Hong Kong-headquartered Rocco Design Architects.

B+H is a global, award-winning consulting and design solutions firm providing architecture, interior design, planning, landscape design, and strategic consulting services with ten studios around the world. SAA is among the Top 10 architecture firms in Singapore, with an established presence across Southeast Asia.

The addition of B+H and SAA will deepen Surbana Jurong's technical capability to offer best-in-class architectural and interior design services for both urban and infrastructure projects globally. The two new member companies will complement Surbana Jurong's current market coverage. Surbana Jurong plans to tap B+H and SAA's presence to expand its service offerings into new geographical markets such as North America and new growth sectors such as healthcare.

Additionally, Surbana Jurong has formed a collaboration with Rocco Design Architects. Rocco Design Architects is an award-winning architectural practice based in Hong Kong, led by renowned architect Rocco Yim. This collaboration is a long-term partnership to jointly pursue projects in the region, particularly Hong Kong and the Greater China Bay Area.

Mr Wong Heang Fine, Group CEO of Surbana Jurong said, "Welcoming B+H and SAA into the Group reflects Surbana



From left to right: Eric Ang, Surbana Jurong Board Member; Ku Moon Lun, Surbana Jurong Board Member; Bill Nankivell, CEO, B+H; Liew Mun Leong, Chairman, Surbana Jurong; Wong Heang Fine, Group CEO, Surbana Jurong; Rocco Yim, Executive Director, Rocco Design Architects; and Yeo Siew Haip, Managing Director, SAA. Photo: © Surbana Jurong

Jurong's strategy to strengthen and transform our architectural practice and enable us to compete with the best in the world. With a larger pool of global design talents consisting of Surbana Jurong's architects, new members B+H and SAA, and partnerships with other renowned architects such as Rocco Design, we will be able to nurture and groom future architectural talents by providing them with more exposure opportunities to projects globally."

Shanghai Mitsubishi Elevator surpasses 800,000-unit milestone

Tokyo, Japan – Mitsubishi Electric Corporation announced that Shanghai Mitsubishi Elevator Co., Ltd. (SMEC), which has been operating in China since 1987, surpassed its 800,000-unit milestone, including both elevators and escalators in October 2018.

Mitsubishi Electric continues to deliver safety, peace of mind



Shanghai Mitsubishi Elevator Co., Ltd. (SMEC). Photo: © Mitsubishi Electric

and riding comfort through its products and services, working in collaboration with SMEC to expand its business in China, the world's largest elevator and escalator market, and maintain its market-leading brand.

Mitsubishi Electric became the first Japanese company to directly manufacture, sell, install and service elevators and escalators in China when it teamed up with the Shanghai Electric Group to establish SMEC in Shanghai in 1987. SMEC has earned praise for the quality of its products and services. This year, for the eighth time going back to 2011, it was named the top company for "preferred supplier and service brands" in the elevator and escalator sector during "2018 China's top 500 real estate development enterprises, conference for evaluation results," an event held by China Real Estate Association and E-house China R&D Institute.

SMEC has steadily introduced products incorporating the most advanced technologies to contribute to the growth of China's elevator and escalator industry. It delivers products and services focused on safety, peace of mind and riding comfort through a nationwide network of 86 branch offices.

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Arup unveils first Future Cities Hub to drive innovation and growth in Southeast Asia

Singapore – Arup, a global design and consulting firm, launched its first Arup Future Cities Hub on its 50th anniversary in Singapore. Supported by the Singapore Economic Development Board (EDB), the Arup Future Cities Hub will serve as a focal point for Arup's consulting expertise in advisory, planning and design across Southeast Asia.

Based in Singapore, a diverse mix of local and international professionals will be developed to drive innovation and growth across Southeast Asian cities.

With Singapore as a springboard, Arup will be working with public agencies and private sector entities on urban development, transport, social and infrastructure in the region.

"Singapore is home to the best talent, underpinned by high quality infrastructure and regional connectivity. With EDB's support, we are excited to launch the Arup Future Cities Hub on our 50th anniversary in Singapore," said Tan Yoong Heng, Arup Singapore's Office Leader.

Over the next five years, the Arup Future Cities Hub will focus on strengthening its advisory, planning, design and specialist consulting capabilities to address critical needs. Arup will also



Mr Tan Yoong Heng, Singapore Office Lead, speaking at the launch event of Arup Future Cities Hub. Photo: ©Arup

be growing its offerings in digital, urban mobility, infrastructure masterplanning, resilience and sustainability consulting.

ASGC expands capabilities with acquisition of leading facades expert

Dubai, UAE – ASGC, one of the leading construction groups in the UAE, has added to its expansive portfolio of services with the purchase of the majority shares in the Australian facade contracting company, JML UAE LLC. The purchase complements ASGC's strategy in being the UAE's most trusted full-service contractor, providing customers with control over all aspects of project design and build.

JML UAE LLC was launched in 2006 as the regional representative of leading facade contractor, JML, which was established in 1990 in Newcastle, Australia. The company offers full turnkey solutions from complex design and engineering to manufacturing and site installation. The company has proven expertise as an architectural facade and glazing specialist in Australia, the United Kingdom, Hong Kong, Singapore, New Zealand and the UAE.

In the UAE, JML has worked on many prestigious projects, such as Dubai Festival City, Dubai Metro Red and Green Lines, the Palm Jumeirah monorail stations, Abu Dhabi International Airport, Dubai International Airport, and Bluewaters Wharf Retail. They also undertake projects in Bahrain and Saudi Arabia. JML currently has key projects to deliver for Expo 2020 including Al Wasl offices and Hotels, the Sustainability Pavilion, and the entire Dubai Metro extension.

ASGC and JML UAE have started a successful collaboration even before the acquisition with two major projects in the UAE, which are the forthcoming the Mohammed Bin Rashid Library and the Expo 2020 Sustainability Pavilion, that have paved the way to signing the deal.

Speaking on the acquisition, Bishoy Azmy, CEO of ASGC, said: "We continually

look at how ASGC can develop the strongest suite of premium services that will enable us to manage project delivery from start to finish. We are exceptionally pleased to welcome JML UAE into the ASGC portfolio. The company's extensive expertise and reputation as a leading façade contractor adds great value to our existing services with world-class experience and capabilities."

Shaun Duncan, General Manager of JML UAE LLC, said: "This is a very exciting time for JML UAE. ASGC has built a prestigious name for itself through involvement with iconic projects, and we are thrilled to be part of the company's expansion and growth plans. JML will continue to work on all existing projects, with the added benefit of ASGC's immense portfolio of manpower, design and technology solutions. We look forward to supporting ASGC in both existing and upcoming projects."

Sodexo presents latest workplace trends in new regional office – Sodexo APAC House

Singapore – Sodexo, a world leader in Quality of Life services opens its new APAC House, an innovative office that boosts employees' all-round wellbeing, supports new ways of working and benefits the community and environment. The workspace boasts a full suite of digital innovations to make work life simple, productive and most importantly, enjoyable.

Located in Mountbatten Singapore, the 10,000 square feet workspace houses 130 staff from Sodexo's APAC team. It was designed with input from employees, combining a balanced combination of hardware (a comprehensive suite of smart technologies) and heartware (the most flexible working arrangements) to improve every employee's Quality of Life.

According to Sodexo Group's global Employee Engagement



A digital dashboard shows at a glance which rooms are being occupied, temperature at various parts of the office and energy usage in real-time.
Photo: © Sodexo

Survey 2018 conducted by an independent research firm, Sodexo APAC reported an engagement level of 87 percent, the highest among all regions. The APAC House is yet another collective effort by Sodexo to engage employees, retain talent and to showcase the future of workplace and food solutions.

Sodexo's progressive culture allows employees the flexibility to work remotely without watching the clock. Employees have the flexibility to adopt work arrangements, which allow for their own personalised balance of work-life arrangements. It supports fully the

Singapore government's push for forward-looking human resources practices. Providing flexible work arrangements is also in line with Sodexo's goal of increasing women in senior leadership to 40 percent by 2025.

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Architect Expo 2019 to have the theme "Living Green"

Bangkok, Thailand – The Association of Siamese Architects under Royal Patronage and a new partner "N.C.C. Exhibition Organizer Co., Ltd." announced the Architect Expo 2019 under the concept "Living Green", pushing architecture toward the eco-friendly.

The expo will have at least 500,000 visitors and up to 50 percent more space for 850 exhibitors from USA, Germany, Italy, Australia, South Korea, Taiwan, Singapore, Hong Kong, Malaysia and Vietnam.

Mr. Ajaphol Dusitnanond, President of the Association of Siamese Architects under the Royal Patronage, 2018–2020 said "Architect Expo 2019 will be held on from 30 April to 5 May 2019 at Challenger Hall 1–3, IMPACT Arena, Muang Thong Thani, Thailand. This is our 33rd time under the concept "Living Green", the most important event in architecture, design and construction business, not only in Thailand, but this event is expected to gain regional interest in ASEAN.

The expo that reflects the role of architecture in order to give the society a better understanding of the professional exhibition on architecture, innovation and international seminars are also organised, including services to students and the general public that will be upgraded to universal trend. The expo, which has been collecting materials and products related to architecture, interior and the great construction of the year. This is an important part of stimulating the economy of the country."

H.R.H Princess Maha Chakri Sirindhorn will attend the opening ceremony of the Architect Expo 2019 on 30 April 2019 under the concept "Living Green" as the association recognize the problem that the world is facing, global warming and waste that affect the quality of life. There must be a way to achieve a community architecture and the city on the positive side. The use of resources from local wisdom combined with new technologies.

Dr. Acharawan Chutarat, Chair, Architect Expo 2019 said, "We have focused on exhibitions and activities, such as the contest of contemporary art and international design competition open to association members and the general public, as can the events. In additional we will have the Smart City Fair to give a knowledge and to be a study case



for developing Smart & Low-Energy City from another city in Europe, America, Australia, New Zealand and Asia side by coordinating with urban planning, city leaders and professionals involved in Urban Development, Smart City, Green City and Sustainable City which are successfully in the process of concrete development for example, Vienna, Barcelona, Berlin, Boston, San Francisco, Melbourne, Adelaide, Singapore, Seoul, Tokyo and Surabaya."

In the exhibition, there will be six interesting activities, especially the exhibition of wisdom from three regions to the present. There will also be ASA Forum 2019, ASA Seminar 2019, and seminars by architects from both local and international. This exhibition is also open to the public.

Mr. Sakchai Pattarapreechakul, President of N.C.C. Management and Development Co., Ltd. and Acting General Manager of N.C.C. Exhibition Organizer Co., Ltd. (NEO) said, "According to the official announcement of exhibition organiser of Architect Expo 2019–2020, the Association of Siamese Architects under Royal Patronage has selected NEO to be the organiser for Architect Expo. Definitely, we have aimed to raise this exhibition to become more enlarged in the region. We have invited the construction alliance in Asia and the international entrepreneurs to attend the exhibition in which area has been expanded from 31,000 square metres to more than 60,000 square metres. Out of the total exhibition area, about 26,400 square metres is set aside for sales area and 2,500 square metres for an international area.



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Keppel Land and Habitap unveil Singapore's first smart home powered by AI

Singapore – On 13 November 2018, Keppel Land, one of Asia's leading property companies, and Habitap, Singapore's leading smart living platform developer behind Asia's first fully integrated smart home management system, launched Singapore's first smart home powered by artificial intelligence (A.I.).

The smart home management system currently integrates three core functions of smart home controls, community management and lifestyle services seamlessly on a single platform. It has now been enhanced to incorporate an array of leading-edge features, including A.I. with machine learning capabilities. This enables the application to progressively anticipate users' preferences and usage patterns, thereby automating features and settings to provide seamless and intuitive experiences. These range from providing users with access to their preferred third-party service providers for maintenance of air-conditioners and laundry services, for example, to automatic alerts and reminders on security issues, among others.

The revolutionary Habitap Lifestyle Assistant, Habitap Handy, also allows users to interact with and easily control devices within their homes, access services such as facilities booking and the visitor management system, as well as enjoy lifestyle services using natural language text and voice messaging on popular mobile messaging applications, such as WhatsApp and WeChat.

At the same time, users of Habitap will be able to interact with and control connected devices within their homes such as door locks, lighting and air-conditioning systems via the customised, integrated platform. Smart smoke detectors within the homes can also send alerts to residents' mobile devices or to the condominium security guards in the event of an emergency.

According to Keppel Land, this advanced home automation system will be applied at Keppel Land's upcoming residential development at Nassim Hill.



Mr. Ng Ooi Hooi, President (Singapore) at Keppel Land (left) and Mr. Franklin Tang, CEO & Founder of Habitap at the Preview of Singapore's First Smart Home Powered by A.I. Photo: © Habitap

Grand Park City Hall introduces mobile selfie check-in technology, first-of-its-kind in Singapore

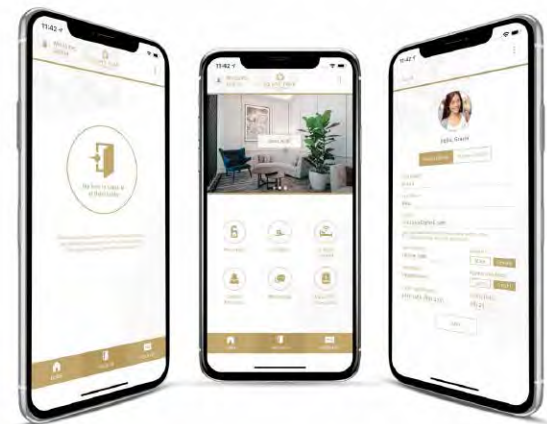


Photo: © Grand Park City Hall

Singapore – Park Hotel Group's flagship property, Grand Park City Hall is the first hotel in Singapore to launch facial recognition technology for check-in on mobile, integrating advanced technology to enhance and create a seamless experience from pre-arrival through to checkout. The mobile application utilises WIFI, Bluetooth and location services, allowing guests to check-in on the go and skip the queue at the front desk with the quick capture of a selfie, effectively reducing the standard check-in process from five minutes to an impressive one minute.

The fully customised mobile application which has been co-developed with Singapore-based start-up GTRIIP, will allow guests to customise their stay with the following touchpoints:

- Securely complete pre-arrival registration and share service preference information before arriving at the lobby
- Expedite the check-in process by swiftly tapping a button to communicate and verifying guest identities through their mobile phones
- Enabling the user's personal mobile phone to be used as a secure mobile key access, as well as in-room electronic controller for room amenities such as lighting, the television and air-conditioning
- Instant in-app messaging to directly connect with the hotel concierge
- Pre-select preferred room and floor 48 hours in advance based on guest needs such as after verdant views or near-elevator room access

Hotel guests can still request for a physical key card or request for a temporary mobile device from the front desk with the application pre-loaded for guests not wishing to download it on their phones.

LWK presents Chongqing Landmark Riverside Park Danzishi Old Street

Hong Kong – LWK & Partners (HK) Ltd. ("LWK" or the "Company") is proud to present yet another masterpiece – Landmark Riverside Park Phase II Danzishi Old Street, a comprehensive cultural commercial experience that bridges the old and new, the oriental and western.

"Chongqing Landmark Riverside Danzishi Old Street" also received a plaque at its opening ceremony on 1 June, where it was officially certified as an AAAA Class national scenic area. LWK was responsible for the Masterplanning and Architectural Design for the project.

Located in Chongqing's Nanan District, overlooking Chongqing Grand Theatre and Chaotianmen Wharf, and on the waterfront between the Yangtze and Jialiang rivers, the retail precinct spans across a 21,500 square metres site to form a kilometre-long street, and follows the concept of 'one street; two docks; four courts; ten scenic attractions'. Centred around the glamour of old Chongqing, many of the old scenic attractions have been preserved, while other historical buildings have been refurbished to be revitalised, such as the former French Navy Barracks Building.

The history of the site was retained in the brand new development. To complement these traditional elements, new buildings on Danzishi Old Street adopted a modern Chinese architectural style. Framed viewing windows and patterned grids and screens were installed to direct the line of vision to appreciate the picturesque scenery. The traditional blue brick tiles are renewed with the addition of modern materials, while



classical patterns are reiterated as modern geometric shapes.

Danzishi Old Street is the first 4A national scenic area to receive the honour under the theme of 'port culture and Grade 9 hill slope forms'. The unique landform posed additional challenges to the development of the site, as the highest and lowest points of the project have a difference of 80 metres in height. Instead of levelling it off for easier development, the designers devised a multiple platform layout for the project to minimise disruption to the natural landscape. These platforms on different levels are linked by stairs, escalators and others forms of vertical transportation to facilitate flow of foot traffic. This also ensures that the scenic view can be enjoyed to the fullest so as to utilise the site's advantage.

Tanjong Pagar Centre receives CTBUH Award of Excellence

Hong Kong – Tanjong Pagar Centre has been recognised as an "Award of Excellence" winner in the "Urban Habitat – Single Site" category of the CTBUH 2019 Awards Program. The project will compete at the CTBUH 2019 Tall + Urban Innovation Conference for the additional status of "Overall Category Winner". In addition, Tanjong Pagar was honoured in the EdgeProp Singapore Excellence Awards. The project won an award for Integrated Development while the project's residential component, Wallich Residence, swept four awards for Design Excellence, Landscape Excellence, Innovation Excellence and Top Development

Positioned as a premier quality business and lifestyle hub, the 160,000-square-metre Tanjong Pagar Centre provides a mix of uses, comprising office, residential, retail and hospitality, in Singapore's historic Tanjong Pagar central business district.

The centerpiece of the project is a re-designed Tanjong Pagar City Park to create unique public spaces that provide activity and open space to visitors. In line with a shared vision of the Singapore Urban Redevelopment Authority and GuocoLand to create lively and attractive public places, protected and useful outdoor gathering spaces and sustainable urban environments, Tanjong Pagar Centre sets the standard for sustainable, livable development in Singapore for generations to come.



Photo: © Studio Periphery

Aurecon announces new CEO to drive its global growth

Sydney, Australia – Global engineering and infrastructure advisory company Aurecon has announced the appointment of Managing Director Australia and New Zealand William Cox as its new Global Chief Executive Officer to lead the organisation's rapid growth and continuing diversification across Digital, Advisory and Asia.

Effective from 1 February 2019, William will be based in Sydney. His appointment marks the end of current Aurecon CEO Giam Swiegers' successful fixed four-year term, which saw the company more than double its profits since 2015.

William said: "This is a terrific opportunity to steer Aurecon during a time of significant growth and change for our industry. Incredible technologies are helping us plan and build infrastructure in a way never seen before, truly changing the way we engineer, design and advise. My focus areas for the immediate future are to consolidate and continue the growth trajectory in Digital, Advisory, and in Asia where we see immense potential in transport infrastructure, the built environment and fast-growing data centre sector."



William Cox. Photo: © Aurecon Group

The new flagship NIO House by Schmidt Hammer Lassen Architects erases boundaries between the car and the user

Hangzhou, China – The second NIO House automotive showroom designed by Schmidt Hammer Lassen Architects opened recently in Hangzhou, China overlooking the West Lake, a UNESCO World Heritage site that is one of the most beautiful sights in the country. As with the architectural firm's first NIO House, which opened in Shanghai in February, NIO House West Lake is a design-centric take on the traditional car showroom for innovative electric car company NIO. A global start-up, NIO designs and develops high-performance electric and autonomous vehicles, while taking an unconventional view of the industry and redefining what premium service means for a car company.

"The West Lake is an intense confluence of different natural atmospheres that inspired the design of NIO House West Lake and the feeling of the space," said Chris Hardie, Partner and Design Director Shanghai at Schmidt Hammer Lassen Architects. "The interior design also reflects the form and materials of NIO



Photography: SchRAN

models like the ES8 and EVE by using clean lines and pushing material boundaries," added Chris.

The NIO logo, which combines the notions of moving into the future with

the imagery of driving into the horizon, was greatly influenced by the horizon over West Lake. The design of the Hangzhou showroom takes inspiration from this simple dichotomy of sky and water.

UNStudio Asia is proud to present their most recently completed project in China: the Keppel Cove Marina & Clubhouse in Zhongshan

Shanghai, China – The new Marina at Keppel Cove is located in Zhongshan, in the Guangdong Province of China and is situated on the banks of the River Xi. The 50,000 square metres masterplan for the project comprises a marina with direct access to the Xi River, a service building, high-end residential villas and the supporting infrastructure, such as the CIQP building, a bridge, roads and surrounding external dykes. Keppel Cove Marina is the first and only marina with a private port of immigration in all of China.



Photo: © Tom Roe

Ben van Berkel, Founder and Principal Architect of UNStudio said: "The way the wind is guided through the building in order to cool down the interior is also metaphorically articulated in the design. Within the internal wind funnels, it is almost as though you can see the wind swirling around within the architecture that surrounds you."

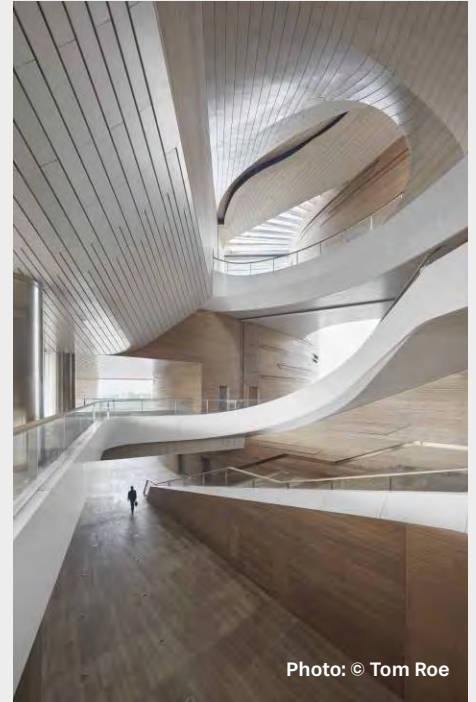
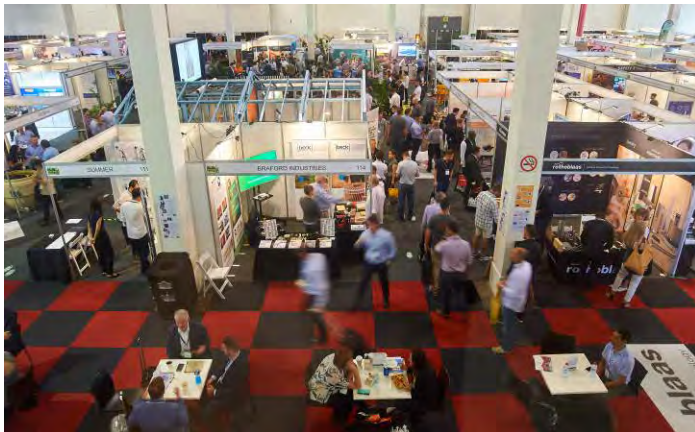


Photo: © Tom Roe

Sydney BUILD Expo 2019 joins forces with CIXENEX

Sydney, Australia – Oliver Kinross the organiser of Sydney BUILD, a leading and large-scale construction show & expo for NSW, has announced that Sydney Build 2019 will be held in partnership with CIXENEX, Australia's premier infrastructure expo organised by IPWEA for over 60 years. The two shows combined look to form the largest construction trade show in Australia. It will take place on 14 and 15 March 2019 at the



Small glimpse of the hustle and bustle at Sydney BUILD Expo.

Royal Hall of Industries & Hordern Pavilion.

The Sydney BUILD Expo and CIXENEX partnership will offer attendees a chance to build connections, enhance industry knowledge, and generate business at a major indoor and outdoor show taking over all of the Royal Hall of Industries, the Hordern Pavilion and adjacent outdoor grounds.

The Sydney BUILD Expo hosts exhibitors and attendees across the construction industry and is strategically co-hosting with CIXENEX, a successful initiative held by the IPWEA (Institute of Public Works Engineering Australia), in order to extend the show further into the infrastructure industries.

Both the Sydney BUILD Expo and CIXENEX will bring together thousands of professionals across 5 show zones: Build Zone; BIM and Digital Construction Zone; Kitchen, Bathroom & Interior Zone; Modular, Prefab & Form Zone; Plant Machinery & Equipment Zone.

With extensive support from key stakeholders in government, associations and industry; the two events are delighted to deliver excellent content, premium networking opportunities, and top-class entertainment! Registration for the events are free via the website www.sydneybuildexpo.com and attendees will have unrestricted access to all the conferences and CPD accredited workshops at Sydney BUILD.

Next Story Group plans 50 Kafnu Properties in Asia Pacific



Kafnu Taipei. Photo: © Next Story Group

Singapore – Next Story Group is accelerating the growth of its genre-defining Kafnu brand across Asia Pacific. Following the successful launch of Kafnu Hong Kong in late 2017, Next Story Group opened Kafnu Taipei and Kafnu Bengaluru this year. Kafnu Alexandria in Sydney and Kafnu Saigon Pearl in Vietnam are slated to open by the end of 2018, and with five confirmed Kafnu properties in the pipeline. Next Story Group is targeting a portfolio of 50 Kafnu communities by 2021.

Kafnu is envisioned as an urban village – for a new generation of creators. Not just for creative professionals like designers and artistes but also for creators who are establishing companies and creating social impact. Kafnu is a collective of hyphenates, who are inherently curious, willing to explore their full potential and whose self-identity extends beyond their profession.

In Kafnu's hub-and-spoke strategy, a large city 'hub' of 5,000 – 10,000 square metres is surrounded by 'spoke' locations of 2,000 – 5000sqm to offer Kafnu members the same level of utility and connectivity wherever they go. It provides members with access to strategic partnerships, premium services and private curated events, elevating their individual and collective potential.



Kafnu Hong Kong. Photo: © Next Story Group

Sydney's historic No. 1 Martin Place has been transformed by co-creation



Sydney, Australia – The lobby and mezzanine at Charter Hall's historic No.1 Martin Place has been transformed by co-creating with tenants in a re-imagined view of what workspace design and experiences of the future look-like. The Premium-grade office building is located at the prestigious site of Sydney's first ever General Post Office (GPO) in Martin Place, flanked by George and Pitt Streets in the Sydney CBD.

The \$2.9 billion unlisted wholesale Charter Hall Office Trust (CHOT) owns and manages No.1 Martin Place and made the investment to transform the space following tenant survey feedback and a design think workshop hosted by Macquarie Bank.

Charter Hall worked in partnership with Adriano Pupilli Architects and Mia Feeseey at Siren Design to deliver the refurbishment of the Lobby and Mezzanine levels that now provide technology-enabled spaces, where tenants and guests can connect, collaborate and innovate outside of their traditional tenancy.

Collaboration and shared working spaces have taken off in international markets and with the introduction of shared workspaces in Australia, Charter Hall is co-creating new experiences across its office portfolio including the introduction of profit for purpose café's and community art studios delivering a more purposeful and connected experience for a building's community.

The re-thinking of the office experience at no.1 Martin Place was based on the feedback from tenants, who wanted to retain the historic structure of the precinct while also moving towards a modern way of working.

As well as the collaborative working spaces, No.1 Martin Place also includes a new café with a social purpose along with a pop-up art gallery space. Portal Café delivers 100 percent of its profits to benevolent causes while Charter Hall has extended its relationship with north Sydney community art initiative Project 504 to create one of the Sydney CBD's most impactful, community-driven buildings.

c-lever air is the flattest electronic door furniture from dormakaba

Singapore – Control access for only the rooms and times you want with the c-lever air, the electronic door furniture with dimensions as small as a normal door plate.

The award winning c-lever air meets high aesthetic and functional demands for your access control. A special feature is its thin door leaf design, which at 10.5 to 11.5 mm generally makes it possible to continue using existing lock cylinders. Its flat design has already been awarded a few times.

The c-lever air is part of the dormakaba evolo standalone portfolio. No wiring is required within the door because the unit is operated with two standard batteries. Combined with leverhandle elements on the inside, the same look can be obtained on all doors.

The innovative c-lever air can be integrated into all dormakaba system solutions and supports modern RFID technologies.

With the available wireless function you can wirelessly transfer your access rights from your computer to the components. Benefit from the advantages of this function, for instance in the fields of security, programming and maintenance.

The c-lever air can be used on inside doors, for example on design-oriented architecture, in modern offices or museums and galleries.

Features of c-lever

Easy to use – high performance

Actuate the door as naturally as ever, whether it is with a card, key fob, a key with RFID or a smartphone – the digital lighting unit will glow green after you present your access medium, and you can open the door with the lever handle as usual.

Installation

The c-lever air can be installed indoors on narrow stile or solid leaf doors made of wood or metal. It takes only a few minutes. Please follow the operating instructions, which contain further information on technical data, tests and maintenance.

Programming

The c-lever air is suitable for single doors but also as part of a large-scale master key system. Choose from the following programming options:

- Authorisation in the component:
 - manually with the programming card;
 - with the system software and transfer of access rights via the programming device
 - conveniently from your desk via the wireless function.
- Authorisations on the access medium – programming of the door components on site is not necessary. Optionally available with:
 - CardLink
 - AoC (Access on Card)
 - OSS-SO (Open Security Standards – Standard Offline)



Essential features

The firmware supports all dormakaba system solutions and offers the following main functions:

- Number of access media:
 - with whitelist up to 4,000
 - with CardLink practically unlimited
- Internal clock and configurable time profiles
- Time-limited assignment of access rights (validation)
- Audit trail of the last 2,000 events (can be disabled)

Fire protection, smoke protection and escape route

For fire doors: Fire protection assembly kit must be used in combination with dormakaba FP lever handle as well as fire- and-smoke-protection rosettes. Conformity with EN 1634-1, fire resistance class EI2 90 (for T90 doors). Depending on the door manufacturer, an additional certificate of conformity may be required for the fire or smoke door concerned.

Escape route: For the side facing away from the escape route, the c-lever air door furniture satisfies the requirements of EN179 when using the certified device sets.

c-lever is a winner of 'product best of best' in the Iconic Awards 2016 and German Design Award Special 2017.



KONE opens new regional headquarters and People Flow Experience in Singapore

Singapore – KONE, a global leader in the elevator and escalator industry, held the official inauguration of its new Asia Pacific headquarters and new People Flow Experience Centre in Singapore on 7 December 2018. The company's increased investment supports the growth of its regional operations that has reached approximately EUR1 billion at the end of fiscal year 2017.

Located at the top floor of MapleTree Industrial New Hi-Tech Space in Singapore, the new 25,000 square feet headquarter houses KONE's regional headquarters and Singapore country office, project engineering, a 24X7 customer call care centre, and sales and service support operations. The regional headquarter also features the People Flow Experience Centre which allows existing and prospective customers to have first-hand experience of KONE's latest technologies.

The facility's opening ceremony was led by Mr. Axel Berkling, Executive Vice President of KONE Asia Pacific and Mr. Jerome Audais, Managing Director, KONE Singapore along with Guest of Honours, Ms. Paula Parviainen, Ambassador of Finland to Singapore and Mr. Ng Chee Meng, NTUC Secretary-General.

Mr Jerome Audais, Managing Director of



KONE headquarters ribbon cutting ceremony. Mr Axel Berkling, Executive Vice President of KONE Asia Pacific (second from left); Mr Ng Chee Meng, NTUC Secretary-General (third from left); Ms Paula Parviainen, Ambassador of Finland to Singapore (fourth from left) and Mr Jerome Audais, Managing Director of KONE Singapore (fifth from left). Photo: © KONE

KONE Singapore added, "It's a proud day today for all of us here at KONE. Globally, Singapore is the gateway for green building and technology in Asia Pacific and we are proud to be a market leader in supporting the country's position. With over four decades of experience in the country, we are well-positioned to improve people flow, and contribute to the development of smarter cities and green building for Asia, from Singapore."

LTW brings poetic illustrations of six dynasties to Jumeirah Nanjing

Singapore – LTW Designworks, the award-winning Singapore-based interior design studio, unveiled the interior design of Jumeirah Nanjing, the studio's latest project in China, at the International Youth Olympic Cultural Centre designed by Zaha Hadid. LTW was commissioned to craft the interiors for the hotel's public areas, guestrooms and suites, restaurants, lounges, banqueting and wellness facilities for this latest entrant to Asia's luxury hotel market. Strategically situated along the picturesque Yangtze River in the Hexi New Business District, the hotel enjoys panoramic views of the water against the bustling cityscape.



Arrival lobby at Jumeirah Nanjing. Photo: © Jumeirah Nanjing

CT-Art introduces 'Biba', the future of play in Singapore

Singapore – At a recent PlayCubes installation along Robertson Quay, CT-Art Creation Pte Ltd introduced the Future of Play via Biba, which integrates digital mobile technology and physical playground landscape. Clients ranging from developers, architects, landscape architects, town councils and the like, were treated to a showcase of how children and their families can benefit from this combination of hardware and software.

The state of play

Today's kids are being introduced to touchscreen experiences in their very youngest years. This has dramatically shifted how they interact with the world. With screen time is at an all-time high, some studies are reporting children getting more than seven hours on screens each and every day.

Naturally, with this increase in screen time, there is also a decrease in outdoor physical activity. In fact, only about 15 percent of school-aged children are getting the recommended amount of 60 minutes of moderate-to-vigorous physical activity a day – a pretty devastating statistic. And something that should not become the new normal.

Building healthy families

This is where Biba comes in. Knowing that screen-time prohibition is not a viable solution for most families, the team at Biba have created mobile



games that actually get kids moving and what better place to do that than the neighbourhood playground? Any playground can be upgraded with a set of Biba augmented reality markers in about 15 minutes using standard tools. From there, no maintenance is required – the system is good for the life of the playground. And the games are always fun, always fitness-focused, and always free to play.

The fun factor combined with this new notion of healthy screen time has drawn the interest of family-friendly iconic brands like the Teletubbies and Sony's Hotel Transylvania that will power the next generation of playground fun. These games will give kids the video rewards they want, but combine it with the outdoor, physical, social and imaginative play that parents know they need.

Finally, aside from a wonderful staging area, the playground as a space serves a second critical function: that of a community gathering place, something sometimes neglected in our increasingly fast-paced and urban society. In every community with a new Biba smart playground system, family after family begins to spontaneously adopt the games as part of their weekly routine.

By carefully and ethically aggregating this information and then cross-referencing with a range of third-party sources



(weather, traffic, income, etc), Biba's data science team is now able to offer granular insights on a community-by-community basis. For the first time, this data can be used to answer any number of questions at a city, state or national level from questions as simple as "which slide is the most popular" to as complex as "how might a shade structure increase play during the summer months?"

Is Biba working?

So far, so good! Over the past year, Biba has taken off on a global scale. There are 4,000 playgrounds deployed in 1000 cities across North America, Australia, New Zealand, Singapore, Israel, Ireland, and the United Kingdom. This has driven Biba's database of healthy minutes played well past the million minute mark, which gives Biba access to information that is both broad and deep and quite unique.

And with more innovations cooking up in their R&D lab, the best is yet to come. It is only a matter of time before a Biba playground pops up in a neighbourhood near you.



Playpoint designs five-storey tall netted playground for Changi Airport Terminal 4

Singapore – Changi Airport Terminal 4 in Singapore has a new attraction at its transit area and it is a five-storey towering net playground, called the Chandelier Net.

Conceptualised as a Chandelier by Snøhetta, it combines a sculpture and playground into one, making it as a functional art. Anchored to the ceiling and ground, it features sliding poles, double helix shaped climbing net weaved to the tapestry steel core with LED light ring at the top.

Playpoint in collaboration with KOMPAN design studio were able to bring the concept to reality. RSP architects, PI Architects and KOMPAN Corocord together with Playpoint worked tirelessly to fast track the project to meet the official opening of Terminal 4 on 31 August 2017.

The Chandelier stands at 16.1 metres in height and uses 10 kilometres of rope and is supported by 15 tonnes of steel. It is designed for children between the age group of 6-12 years old. The structure can admit up to 50 children and adults in it.

Playpoint is currently installing a slide in the Chandelier. It will be opened for play only at the end of 2018.

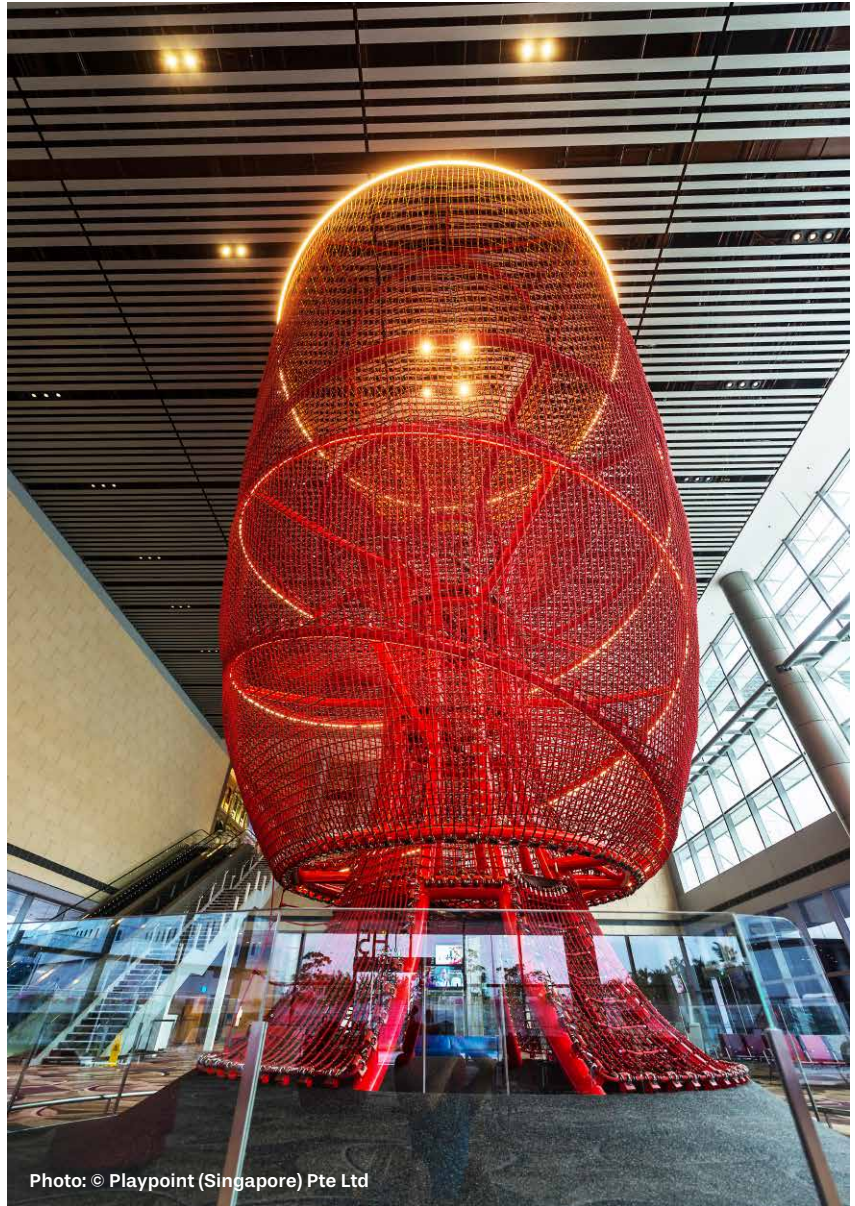


Photo: © Playpoint (Singapore) Pte Ltd



Photo: © Playpoint (Singapore) Pte Ltd

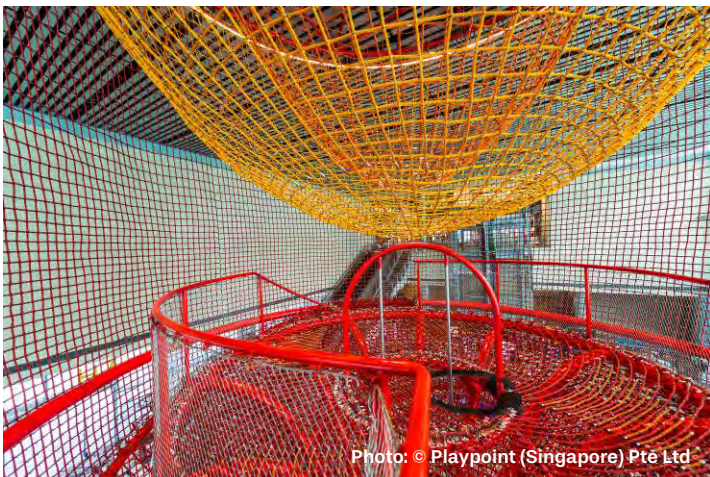


Photo: © Playpoint (Singapore) Pte Ltd

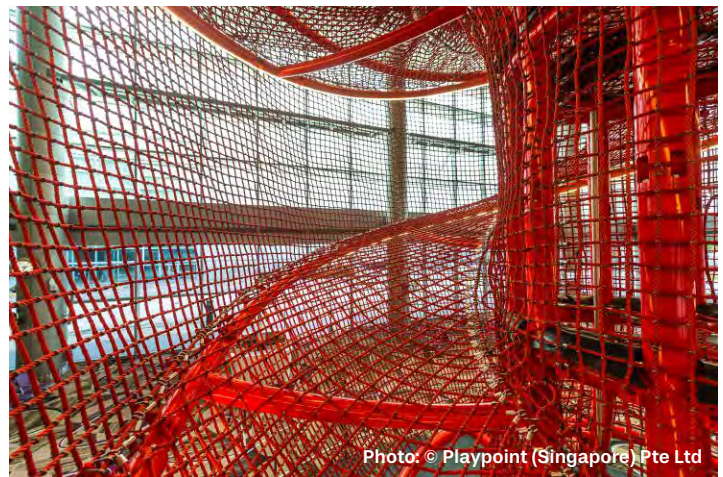


Photo: © Playpoint (Singapore) Pte Ltd

Swissôtel Hotels and Resorts debuts in Indonesia

Jakarta, Indonesia – Swissôtel Hotels and Resorts is set to make its first debut in Jakarta. Opening mid of 2019, Swissôtel Jakarta PIK Avenue is located in a mixed-used lifestyle mall complex. Designed by EDG Design, the hotel features 412 spacious guest rooms, six dining outlets, an executive lounge, the Pürovel Spa & Sport facility as well as the city's largest event space of 3,044 square metres that can accommodate up to 3000 guests in its ballroom.

"This is such an exciting time to introduce the Swissôtel brand into Indonesia and particularly Jakarta to complement the Group's growing portfolio of city and resort destinations throughout the region," said Garth Simmons, COO AccorHotels Indonesia – Malaysia – Singapore.

Staying true to Swissôtel's brand promise of promoting Swissness and vitality, the hotel will offer a very inspiring atmosphere which will be bolstered with the gracious Indonesian hospitality. Swissôtel is synonymous with Swiss hospitality and all there is to love about Switzerland – quality, efficiency and care. Giving guest the peace of mind they need to explore the world and discover life's true rewards is at the essence of any Swissôtel stay.



Rendering: © Swissote Jakarta PIK Avenue

Mövenpick Hotels & Resorts signs deal to manage property in Pakistan's first smart city

Dubai, UAE – Mövenpick Hotels & Resorts is to manage a new hotel in the heart of Pakistan's first smart city, growing its portfolio in the country to four properties strong.

The hospitality firm has signed an agreement with Smart Properties, an affiliate of one of Pakistan's leading real estate developers, Future Development Holdings (FDH), to operate Mövenpick

Hotel & Residences Capital Smart City, Islamabad, which is expected to open in 2023.

Islamabad Capital Smart City is a mixed-used mega development featuring residential, retail, commercial, entertainment and hospitality components that's just five minutes by car from Islamabad's new international airport and located on the main road connecting Pakistan's capital with its second most populous city, Lahore, home to almost 12 million people.

"With this new dynamic development set to become the hub for modern commercial activities and major local and international organisations, our newly-signed upscale property will be well positioned to cater to their needs, from short- to long-term accommodation options, complemented by attractive business and leisure facilities," explained Andrew Langdon, Global Chief Development Officer, Mövenpick Hotels & Resorts.



Florim opens new technologically advanced factory

Fiorano Modenese, Italy – The new Florim factory has been opened in the heart of the Italian ceramic district, in Fiorano Modenese: a 4.0 plant that sets unprecedented standards in the field of industrial innovation.

A hub of technology and automation that covers an area of 48,000 square metres (next to the institutional headquarters) and is preparing to open its doors for Cersaie 2018. The factory will be exclusively dedicated to processing and logistics related to Florim Magnum Oversize large slabs (in sizes exceeding 3 metres in height and 1.6 metres in width). The company is a market leader for this type of product, in terms of both the breadth of its range and its presence on the market. The new Fiorano plant is the latest step in Florim's innovation strategy: in the last two years, the company has invested over 200 million euro.

Claudio Lucchese, President of the Florim Group, commented: "Between 2013 and 2017, we invested around 300 million euro, combining all our strengths and energy to achieve increasingly ambitious results. For us at Florim, this means striving for continuous improvement through innovation, digitalisation and the use of the most modern technologies, while always keeping an eye on environmental impact and remaining highly sensitive to art and beauty."



Photo: © Florim

This awareness and sensitivity are evidenced in the Industry 4.0 factory, which was constructed with painstaking attention to detail and aesthetics. A large glazed wall, measuring over 1000 square metres, reveals a large, luminous space for a high-quality work environment. The west side of the new building faces an impressive bronze sculpture entitled "Percorso Amoro" (Path of love), created by artist Giuseppe Gallo.

Additionally, the entire roof of the warehouse (over 48,000 square metres) is currently being fitted with 26,000 square metres of photovoltaic panels – one of the largest rooftop installations in Italy – which, along with the systems that the company already uses, will allow Florim to achieve almost total energy self-sufficiency.

IOC, IPC and IAKS launch 2019 edition of their international architectural prizes

Cologne, Germany – Designers and operators of particular successful sports or leisure facilities are invited to apply for the IOC IAKS Award and the IPC IAKS Distinction 2019 – the unique international architecture prizes for sports, leisure and recreational facilities. These highly appreciated architectural awards are launched by the International Olympic Committee (IOC), the International Paralympic Committee (IPC) and the International Association for Sports and Leisure Facilities (IAKS).

The IOC IAKS Award brings to public attention exemplary buildings and complexes that integrate sensible sustainability and legacy considerations, strong functional planning and exceptional architectural design.

The IPC IAKS Distinction is aimed at increasing the accessibility of all sports and leisure facilities and architectural structures in order to offer all people opportunities to practise and view sport



2019 IOC IPC IAKS Architecture Prizes – Submit now!



freely and without barriers.

The submission deadline is 31 March 2019. At the same time, the IOC, the IPC and the IAKS are launching the 2019 Architecture and Design Award for Students and Young Professionals for innovative ideas, designs and concepts

for sports, leisure and recreational facilities.

Award winners will receive prize money (Gold: 1,000 euros / Silver: 500 euros / Bronze: 300 euros).

You can visit the website of IAKS for more information.

PES-Architects wins competition for Turku Railyard urban development project

Helsinki, Finland – Helsinki-based PES-Architects' proposal Luoto (islet, skerry) has won the invited competition for a comprehensive plan to develop the railyard area in the city of Turku, Finland. The jury decision was unanimous.

The railyard area is set to be an urban cluster of tourism, concerts, culture, music, experiences and sports, as well as everyday services, work, and housing. A total of 170,000 square metres of floor space will be constructed in the area between Turku Railway Station and the Logomo cultural centre. The area covers 13.2 hectares and is planned to house around 1,500 new residents.

PES-Architect's plan will introduce a dynamic expansion to the lively centre of Turku and offer residents an environment for good everyday life as well as enriching experiences. It will also provide ambitious opportunities for growth for the city.

The focal point of the design is a central "hill" housing a multipurpose arena and hotel. This building will be a landmark for the area and serve as the platform for round-the-clock activities throughout the year. Visitors can ascend along scenic terraces to the rooftop to enjoy a variety of services as well as views opening over the city. The topography of the terraces is formed by the right-angled geometry of the sports facilities below the decks.

According to the jury, the proposal retains a spacious and airy feel despite its massiveness. The plan does not reveal everything at once, but activates people to explore and browse the area. Several naturally emerging and exciting meeting places are



Bird's eye view of the Turku Railyard urban development project.
Image: © PES-Architects

created within the area, enabling encounters between people from different fields and sparking synergies and innovation.

As the next step, PES-Architects will start to develop the plan further together with the representatives of the Turku Railyard project and the City of Turku. The goal is that the Experience Centre would be completed in 2022.

The architecture competition was organised by the mainly privately funded Turun Ratapihan Kehityk Oy in cooperation with the City of Turku and VR Group. Five Finnish architectural practices were invited to participate.

Oppenheim Architecture receives 2018 Cooper Hewitt National Design Award

Miami, Florida, USA – Oppenheim Architecture has received the prestigious 2018 National Design Award for Interior Design by Cooper Hewitt, Smithsonian Design Museum. Principal and Founder Chad Oppenheim accepted the award on behalf of the firm at the 2018 National Design Awards Gala held at Cooper Hewitt, Smithsonian Design Museum in New York City on October 18, 2018.

One of the industry's most prestigious distinctions and widely recognised honours, the National Design Award celebrates the wide-ranging impact of design in the public sector, with recipients chosen based on the criteria of excellence, innovation, and enhancement of the quality of life.

"I'd like to thank everyone here at the Cooper Hewitt. It's a tremendous honour to be part of such an incredible institute, as well as other award winners for this year. Thank you very much to the jury for recognising our work. Architecture and design is a team sport and really I'm accepting the award for the forty people that we have in the United States and in Europe who really make all these dreams come true," said Chad Oppenheim, Principal of Oppenheim Architecture.



Chad Oppenheim, Principal of Oppenheim Architecture.
Photo: © Scott Rudd Associates

Conran and Partners design flagship hotel in Kraków in Poland

London, UK – A new flagship hotel with interior design by Conran and Partners for Polish hotel group, PURO, has opened in Kraków.

The 228-room hotel – which occupies a corner site in Halicka Street, Kazimierz, the city's former Jewish quarter – provides a destination and curated experiences for local residents as much as for tourist and business guests.

Conran and Partners' design concept for the Kraków Kazimierz Hotel is 'Bohemian Modern'.

This approach represents a fusion between the energy, history, authenticity and art culture of the location ('Bohemian') and the dynamic, progressive brand principles of PURO, demonstrating the brand's passion for contemporary art, design-led furniture and forward-looking hospitality ('Modern'). This conceptual narrative has provided a rich source of inspiration for the creation of a unique PURO hotel which is firmly grounded in its location.

The design clearly references elements of the area's history, including its once-bustling industrial heritage, while still achieving a strong residential feel. This has resulted in a welcoming hotel, designed to encourage guests to inhabit the ground floor spaces, morning, noon and night.



PURO Kraków Kazimierz Hotel, Halicka bar area. Photo: © Anna Stathaki

The cafe, restaurant and bar incorporate indoor and outdoor areas with private 'pockets' of space where guests can enjoy PURO's hospitality.

Simon Kincaid, Director, Conran and Partners, said: "Our design for the Kraków Kazimierz Hotel clearly draws upon the historic heritage of the area and presents guests with the story of the hotel's relationship to Kazimierz. It is a concept

which we have termed 'Bohemian Modern' and which aims to encapsulate the gritty, artisan, alternative ambience of this rapidly-changing neighbourhood of Kraków. The design connects guests to the forward-looking, innovative principles of the PURO approach as well as to its bold branding."

The building was designed by ASW Architekci.

Schmidt Hammer Lassen Architects wins competition to design the Maritime Knowledge Hub at Wirral Waters in Liverpool

Aarhus, Denmark – Danish architectural firm Schmidt Hammer Lassen Architects won an invited competition to design the Maritime Knowledge Hub, a 6,400-square-metre facility dedicated to marine engineering research and development, survival training, business incubation, workspace, and events at the heart of the Wirral Waters redevelopment project in the United Kingdom's Liverpool City Region. The Maritime Knowledge Hub will create a place for innovation, collaboration, learning, training, and business development in the maritime sectors, and will put Liverpool and the UK on the marine and architectural industries' global stage.

Peel Land and Property, in partnership with Liverpool John Moores University, Mersey Maritime, and Wirral Council, selected Schmidt Hammer Lassen, together with local firm Ellis Williams

Architects, to design the £20 million Maritime Knowledge Hub. The firms will work with Parkinson Inc., the master planner for Wirral Waters. The Hub's centrepiece is the historic Hydraulic Tower modelled after the Palazzo Vecchio in Florence, Italy, that now lies largely derelict, having been bombed in World War II. A second, new building, located adjacent to the tower, will comprise new office, incubation, teaching, and cultural space, and will house a tank for a state-of-the-art Offshore Survival Training Centre.

The main themes that permeate Schmidt Hammer Lassen's winning design are the integration of green space, the use of raw and recycled materials, and the blending of the existing historic elements with the new high design building.

The 19th century Hydraulic Tower will retain as much of its

original character as possible, and will house the Maritime Industries Centre's work and meeting spaces, three pools including a HydroLab, a café and visitors' portal, and an observatory that will provide views over Wirral Waters and the greater Liverpool area. The new building will accommodate the bulk of the Marine Technology Centre, the Offshore Survival Training Centre, and the Marine Simulation and Training Centre, and will drive research and innovation by bringing education, employers and businesses together.

A wall of reused bricks visually linking past and future will surround the two buildings that make up the Maritime Knowledge Hub, and will provide shelter for staff and visitors against the exposed conditions caused by the River Mersey's open waters and high winds. The wall will also create intimate outdoor spaces including three pocket gardens and an existing central courtyard that will be reimagined with thoughtful new details. The integration of green spaces will extend to roof terraces that can be used for meetings and events.

The composition of the old Hydraulic Tower is diverse in shape and richly ornamented. The new additions, which will appear as a series of glowing boxes at night, strive to achieve the opposite effect, serving as a subtle, simple contrast to the Liverpool landmark. The interiors of the buildings will feature open ceilings with visible trays and pipes, and will consist of raw materials such as steel and concrete, serving the simple, low maintenance needs of offshore buildings.



Rendering: © Schmidt Hammer Lassen Architects

Designs for new DJI's new headquarters in Shenzhen revealed



Photo: © Foster + Partners

London, UK – Foster + Partners unveiled their vision for the new headquarters for DJI, the world leading robotics company, currently under construction in Shenzhen. As the 'heart of innovation' for the company, the new building defies the traditional idea of office space to form a creative community in the sky.

The twin towers combine sensitive research and development spaces with office and other public functions. The floors are arranged in floating volumes cantilevered from central cores by large steel megatrusses – creating large, column-free spaces throughout, with unique quadruple-height drone flight testing labs. The towers are linked by a sky bridge, which will become another platform for showcasing the latest drone technology.

The ground floor features a public exhibition space that pays tribute to DJI's extraordinary reputation for technological development, alongside a new theatre for new product launches and a wide variety of staff facilities from state-of-the-art gymnasiums to robot fighting rings.

Grant Brooker, Head of Studio, Foster + Partners said: "Our aim is to create a unique workplace environment that embodies the spirit of invention and innovation that has allowed DJI to lead the world in robotics and technology."

“Re-materializing construction” by LafargeHolcim Foundation for Sustainable Construction to take place in April in Cairo

Zurich, Switzerland – The 6th International LafargeHolcim Forum for Sustainable Construction will be hosted by the American University in Cairo from April 4 to 6, 2019. The LafargeHolcim Forum is dedicated to the topic of “Re-materializing Construction”. Keynote speeches, workshops and site visits will focus on strategies to reduce consumption throughout the material cycle from extraction to processing, transport, installation, maintenance, and removal.

The Forum pursues the question of how the building and construction industry can adapt to be leaner: with a smaller ecological footprint and not driven by the pretense of infinitely available raw materials. Hence, the Forum seeks to suggest radical solutions in the use of building materials.

Keynote speakers include Christine Binswanger (Senior Partner, Herzog & de Meuron, Switzerland), Lord Norman Foster (Chairman & Founder, Foster + Partners, United Kingdom), Laila Iskandar (former Minister of Urban Renewal & Informal Settlements, Egypt), Mitchell Joachim (Co-Founder, Terreform ONE, USA), Francis Kéré (Principal, Kéré Architecture, Germany), Anne Lacaton (Principal, Lacaton & Vassal Architectes, France), and Rt Hon Simon Upton (Parliamentary Commissioner for the Environment, New Zealand).

Registration open

Around 300 experts from architecture, urban design, civil engineering, mechanical engineering, material sciences and related fields are expected to actively participate in the LafargeHolcim Forum. Registration of interest to attend closes January 31, 2019. The Academic Committee of the LafargeHolcim Foundation will then select participants from the registrations made at www.lafargeholcim-forum.org/register.



Three Roundtables were held in Boston, Zurich and Stuttgart to devise a clear agenda for the Lafarge-Holcim Forum. The 3rd LafargeHolcim Roundtable was hosted by Werner Sobek (pictured centre) at the Institute for Lightweight Structures & Conceptual Design, University of Stuttgart, Germany. Roundtable participants included Marilyne Andersen, Marc Angéllil, Alejandro Aravena, Xuemei Bai, Philippe Block, Harry Gugger, Guillaume Habert, Dirk Hebel, Anna Heringer, Vivian Loftness, Karen Scrivener, and Werner Sobek. Photo copyright: LafargeHolcim Foundation for Sustainable Construction



One of the four concurrent mobile workshops of the LafargeHolcim Forum on “desert cities” will provide a cross sectional exposure to Egypt’s four generations of urban settlements in the desert. Participants will also visit some New Capital Cairo projects currently under construction. Photo copyright: Lafarge-Holcim Foundation for Sustainable Construction

Concurrent workshops

Four workshops will foster interdisciplinary dialogue, bring forward new ideas, and examine potential solutions. Each workshop will be moderated by renowned experts and include input-presentations by more than 60 specialists from all regions of the world. Contemporary material use in construction will be scrutinized, and strategies will be identified to promote fundamentally sustainable practices.

- **Changing paradigms:** Materials for a world not yet built
A sustainable built environment that is fully recyclable and constructed from renewable materials
- **Shifting the flows, pulling the strings:** Stocks, flows, and their dynamics
Exploring interrelated temporal dynamics of materials, life cycles, lifestyles and urban evolution
- **From manual to digital and vice-versa:** Digitalization, labour, and construction
From best practices in manual and digital fabrication: consequential, collaborative solutions
- **Catch 22:** Material needs versus material impact
The right material, the best material, and minimising material use



One of the four concurrent mobile workshops of the LafargeHolcim Forum on "archeological heritage" will visit the Grand Egyptian Museum where the 11 metres high, 83 ton statue of Ramses II will be first monument that visitors will see in the museum's entrance hall. Photo copyright: Dana Smillie

Oasi wins award at the ADA 2018

Meda, Lombardy, Italy – Oasi has won the Archiproducts Design Award 2018 in the Outdoor Furniture category.

ADA is an important recognition, which is awarded each year by an international jury composed of members of the most prominent and influential architecture and interior design studios. Collaborating with the work team of Archiproducts portal, the jury selects the products among hundreds of candidates, based on the best content of formal research and innovation in the use of materials. Oasi is a new outdoor seating collection designed by Francesco Rota for Paola Lenti. The materials used, among which Diade, are very easy to maintain and allow for the use of this series also in challenging environments, like around a swimming pool or directly on a meadow.

Diade is an exclusive and patented material, solid yet pleasant to the touch. It is recyclable and available in several colours, which are obtained by superimposing the prismatic shades of Twiggy, a flexible and versatile high tech Paola Lenti's signature yarn, on the solid colours of the base material.



Image: © Paola Lenti srl – ph. by Sergio Chimenti

The Tulip: a new public cultural and tourist attraction proposed for the City of London

London, UK – A planning application was submitted to the City of London Corporation on 13 November 2018 for The Tulip, a new public cultural attraction which would be sited next to 30 St Mary Axe, also known as The Gherkin.

This project is proposed by J. Safra Group and Foster + Partners, owners and architects respectively of 30 St Mary Axe. Deriving its name from its nature-inspired form, The Tulip would enhance The Gherkin, one of London's most cherished and recognisable buildings and offer a new state-of-the-art cultural and educational resource for Londoners and tourists.

Since the turn of the Millennium, London's skyline has matured with new high-rise buildings that reflect its growth as a global financial hub. In addition, the City of London Corporation has been driving proposals to enliven the Square Mile by creating a Culture Mile with world-class tourist facilities. The proposal for a unique 305.3-metre-high visitor attraction reflects a desire to build public engagement within the City and enhance The Gherkin's public offering. The Tulip promises wide cultural and economic benefits with a diverse programme of events.

A key feature will be the education facility within the top of The Tulip, offering 20,000 free places per year for London's state school children. This educational resource, provided by the J. Safra Group, will deliver national curriculum topics using innovative tools to bring to life the city's history and dynamism, inspiring the creative young minds of tomorrow.

The Tulip seeks to provide an unparalleled vantage point to view London from a height of around 300 metres. The viewing galleries will offer visitors an engaging experience with sky bridges, internal glass slides and gondola pod rides on the building's façade that will appeal to people across all age groups. Visitors will benefit from interactive materials and briefings from expert guides about the history of London. Complementing the experience will be a sky bar and restaurants with 360-degree views of the city.

Norman Foster, Founder and Executive Chairman, Foster + Partners said: "Continuing the pioneering design of 30 St Mary Axe, the Tulip is in the spirit of London as a progressive, forward-thinking city. It offers significant benefits to Londoners and visitors as a cultural and social landmark with unmatched educational resources for future generations."



Bird's eye view of The Tulip. Image: © DBOX and © Foster + Partners

Jacob J. Safra said: "We are delighted to benefit from the exceptional talent of Foster + Partners in bringing to London this world-class visitor attraction. The Tulip's elegance and soft strength complements the iconic Gherkin. We are confident in London's role as a global city and are proud to offer its schoolchildren a state-of-the-art classroom in the sky to appreciate London's history and dynamism."

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 Don't keep it to yourself....

Share it with us!
 Email seab@tradelinkmedia.com.sg

Kampung Admiralty by WOHA wins World Building of the Year Award at World Architecture Festival 2018

RAI Amsterdam, The Netherlands – Kampung Admiralty, designed by WOHA, has won the prestigious World Building of the Year 2018 award, supported by GROHE, at the World Architecture Festival (WAF) in Amsterdam. The substantial mixed-use building is Singapore's first integrated public development that brings together a mix of public facilities and services under one roof.

The one-stop integrated complex maximises land use and is a prototype for meeting the needs of Singapore's ageing population. Located on a tight 0.9 hectare site with a height limit of 45 metres, the scheme builds upon a layered 'club sandwich' approach, with a range of commercial, residential and health space amid amenities and community services, topped by extensive green terraces adorning various elevated spaces.

This is the third time that a project from Singapore has claimed the top prize at the 'Oscars of Architecture', following Cooled Conservatories at Gardens by the Bay, designed by Wilkinson Eyre, Grant Associates, Atelier One and Atelier Ten winning in 2012; and The Interlace by OMA and Buro Ole Scheeren winning in 2015.

Paul Finch, Programme Director of the



Photo: © Patrick Bingham-Hall, © Darren Soh, and © Lim Weixiang

World Architecture Festival commented: "The judges admired the project for the way in which it dealt with the universal condition of longevity and health treatments, social housing provision, and commercial space, which enabled substantial public realm benefits. This hybrid building also incorporates a huge amount of greenery (more than

100 percent of its footprint) in a series of layered levels which have generated welcome biodiversity.

"This is a project that does something necessary in an intelligent fashion from the way it connects to transport to its natural ventilation strategy, all benefitting from a decision to layer a series of buildings rather than separating them into separate tall blocks. The jury felt this was a project with potential lessons for cities and countries around the world."

The winner was selected by a 'super-jury' of four venerated representatives of the global architectural community – comprising Li Xiadong (Founder and Professor – School of Architecture, Li Xiadong & Atelier Tsinghua); Nathalie de Vries (Director and Co-founder – MVRDV); Frederick Cooper Llosa (Founder and Senior Partner – COOPER, GRANA, NICOLINI, Arquitectos) and Lesley Lokko (Head of Graduate School of Architecture – University of Johannesburg).



Photo: © Patrick Bingham-Hall, © Darren Soh, and © Lim Weixiang

Zaha Hadid Architects selected to build Rublyovo-Arkhangelskoye smart city west of Moscow

Rublyovo-Arkhangelskoye, Russia – Zaha Hadid Architects working with TPO Pride Architects (Russia) have been selected as one of the consortiums to build the new Rublyovo-Arkhangelskoye neighbourhood. The jury of the invited competition also selected two further consortiums to develop the project: Nikken Sekkei (Japan) with UNK Project (Russia); and Archea Associati (Italy) with ABD Architects (Russia).

Rublyovo-Arkhangelskoye will include new homes for 66,500 residents in addition to new schools, medical clinics, transport infrastructure and shopping districts, as well as new civic and cultural institutions. The neighbourhood will also accommodate 800,000 square metres of office space for Moscow's growing financial, consulting, legal and auditing sectors.

In total, four million square metres of new buildings will be developed in Rublyovo-Arkhangelskoye over 460 hectares to the west of Moscow. A third of the neighbourhood will be parklands and forest bordering the Moscow River with a 30-hectare lake at its centre.

With Moscow's population increasing by more than three million people (over 30 percent) to 12.4 million in the past 20 years, Rublyovo-Arkhangelskoye is integral to accommodating the Russian capital's continued growth without increasing



Rendering by Flying Architecture

congestion in the centre of the city. As an important new residential, employment, civic and cultural hub to the west of Moscow, a new 19 kilometres metro line is scheduled to begin construction in 2020 to connect Rublyovo-Arkhangelskoye with the Shelepickha interchange station of Moscow's Metro system. Zaha Hadid Architects' proposal for Rublyovo-Arkhangelskoye is a phased development designed to enhance residents' interactions with each other, with nature and with new technologies.

Espinet / Ubach completes social housing project in Can Batlló

Barcelona, Spain – The architecture studio Espinet / Ubach has completed a project consisting of 26 social housing units situated next to the emblematic old textile factory Can Batlló in Barcelona. A central courtyard is the driving element of the project, as it regulates the temperature of the building and acts as the epicentre of community life.

The residential building of Can Batlló is the result of a public competition organised by the Municipal Patronat de l'Habitatge de Barcelona (PMHB). It is located on a residual site, bordering the former textile factory of Can Batlló (which has been classified as 'of public interest'), in the heart of the Sants district. The plot has three sides that look out onto varying

urban landscapes.

The volume of the building stands on one hand at the end of the Carrer Parcerisa and on the other by a small passageway to a park that accommodates the main facade of the remains of Can Batlló.

Under the title 'Opening Roads', the competition presented the concept of a 'wrapped' structure of different heights, in accordance with local regulations on exterior and interior levels. This initial approach allowed us to explore the qualities of an interior courtyard, not only as a lighting and ventilation element, but also as an instrument of connection between the dwellings. The courtyard works as a climatic machine and has

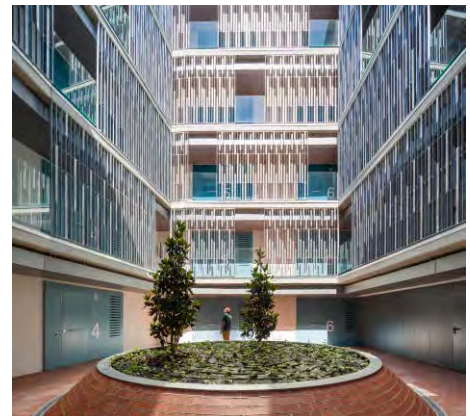


Photo: © Pedro Pegenaute

obtained very favourable results in the bioclimatic study of the building.

Wallvision appoints Marie Karlsson as Managing Director of Cole & Son



London, UK – Wallvision Group have appointed Marie Karlsson as Managing Director of luxury British wallpaper brand Cole & Son. Karlsson was handpicked from parent company WA Wallvision to take the helm of the iconic design house renowned for its artistic designs and iconic use of colour and pattern. Karlsson's chief remit is to develop the Cole & Son brand and business internationally.

Prior to her appointment, Karlsson led the international business division at WA WallVision. Today this represents a significant amount of the company's sales and remains a key area of growth for The Group. Karlsson will therefore continue to lead international business in addition to her new appointment with Cole & Son.

"Cole & Son is a brand steeped in both heritage and innovation. I am proud to be trusted with leading such an exclusive brand and dedicated team in to the future. Both I and the Cole & Son team look forward to strengthening our offering in interior design and cementing the brand as the preferred choice for discerning clients worldwide," said Marie Karlsson, Managing Director of Cole & Son.

Managing Director of Cole & Son, Marie Karlsson.
Photo: © Cole & Son (Wallpapers) Ltd

CTBUH announces appointment of Chief Operating Officer

Chicago, Illinois, USA – The Council on Tall Buildings and Urban Habitat (CTBUH) is pleased to announce the appointment of John Jacobs as its new Chief Operating Officer (COO).

The newly-created COO role at CTBUH is part of an expansion of the executive leadership of the Council, with the aim of driving the next level of growth for the organisation, which turns 50 years old in 2019. As the Council engages globally with existing and new disciplines and academia, it is increasingly important that the CEO role, held by Antony Wood, focus on external relations, executive engagement, and consensus building across a diversity of industry segments impacting tall buildings and urban design. As staff has grown to 35 employees across three offices, the COO role was created to focus and direct internal operations and manage staff to support the Council's smooth functioning during an exciting period of expansion.



Jason Jacobs. Photo: © CTBUH

Commenting on the appointment, CTBUH Chief Executive Officer Antony Wood explained, "John's diverse background underscores the breadth of industries and stakeholders increasingly focused on bringing new solutions, technologies,

and innovations to dense urban habitats around the world."

John Jacobs assumed the role of Chief Operating Officer of the Council on Tall Buildings and Urban Habitat after serving in executive roles with the Telecommunication Industry Association (TIA) responsible for membership, marketing and business development. Prior to TIA, Jacobs served as senior vice president of marketing and product management with Yankee Group Research in Boston, MA. In earlier positions, Jacobs was head, marketing and business development division at the International Telecommunication Union, a specialised agency of the United Nations, and held management roles with MCI (Verizon) and Harris Corporation. Jacobs earned a Master of Business Administration (MBA) from Georgetown University and a Bachelor of Arts (BA) in International Affairs from American University.



A view of the external facade of the Apollo Theatre in Lecce.

The Apollo Theatre in Lecce



The existing screeds in the stalls were consolidated with PROSFAS and the cracks were sealed with EPORIP.

The historical theatre of this Apulian City has been reopened after lengthy restoration work and Mapei was part of this project.

After being closed for 30 years, and a 8 year restoration intervention costing 12 million Euros, the Apollo Theatre in Lecce was reopened in 2017 at the beginning of February in the presence of Italy's President of the Republic, Sergio Mattarella, and of the Minister for Culture and Tourism, Dario Franceschini at the time.

The inaugural evening, under the artistic direction of Katia Ricciarelli, famous in Italy as former soprano and actress, and directed by Pierluigi Pizzi, kicked off with the Italian National Anthem and the Ode to Joy from Beethoven's Ninth Symphony performed by the Tito Schipa Symphony Orchestra of Lecce conducted by Maestro Gianluigi Gelmetti and the Opera Choir of Lecce conducted by Maestro Emanuela Di Pietro. The guest of honour was the actor Giancarlo Giannini, who told the story of the Apollo Theatre.

A century-long story

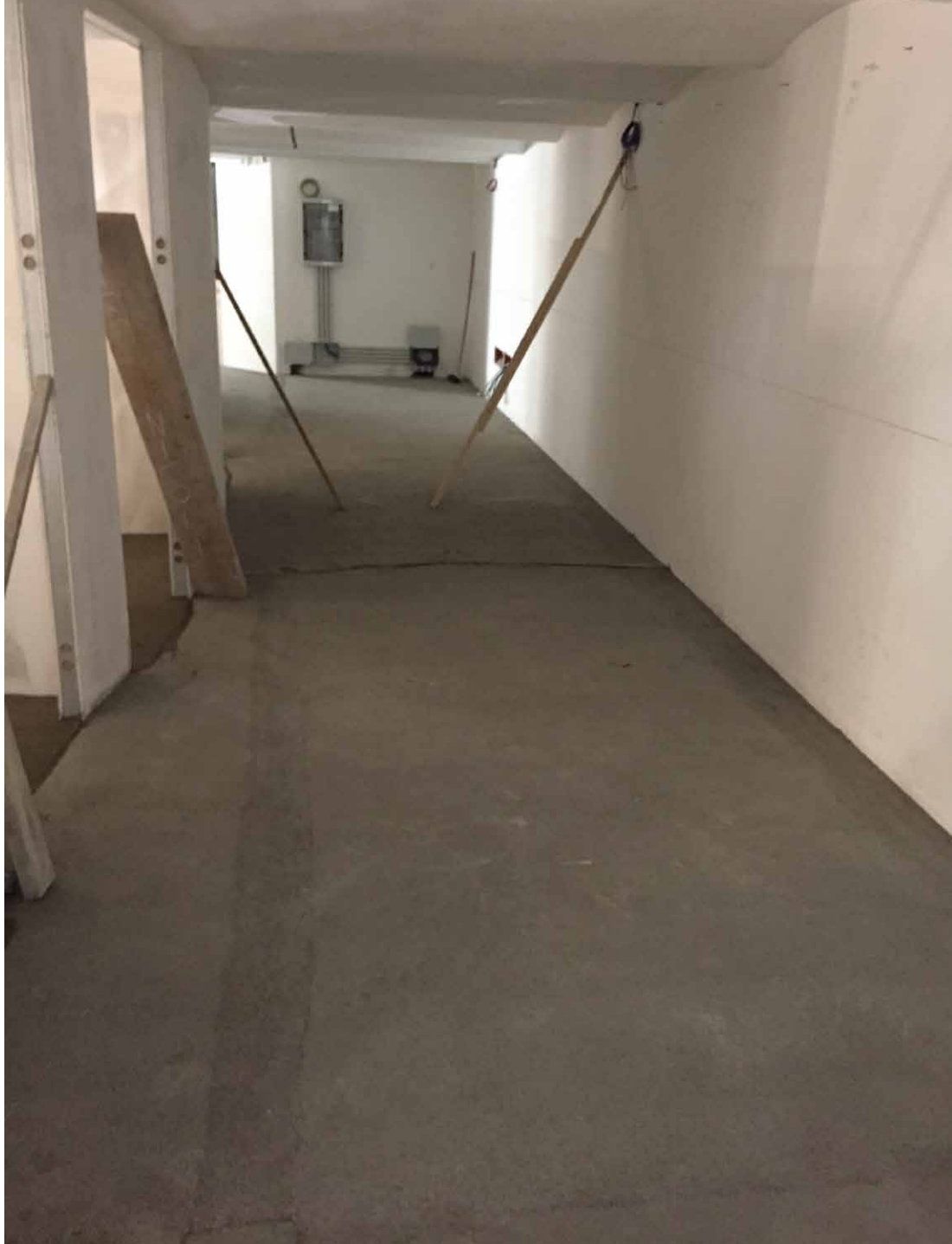
Located in the old part of the centre of Lecce, the Apollo Theatre is considered one of the most important monuments of this Apulian city. Its current structure dates back to

the early 1900's when the owner, Vincenzo Cappello, who had been granted use of a stretch of land along Via Trinchese, decided to build a theatre in that very spot. Up until the 1980's, when it closed its doors for the last time, the main hall had been used for concerts, operas, variety shows and as a cinema.

In 2007 the local council issued a tender to restore the theatre and, around 100 years after its inauguration in 1912, the Apollo Theatre was reborn. From the outside, the theatre is characterised by its Neo-classical style, with an architrave sitting on an imposing row of columns. The inside of the theatre is decorated in Hellenistic style, with Murano glass lampshades and wall-lights and wooden columns.

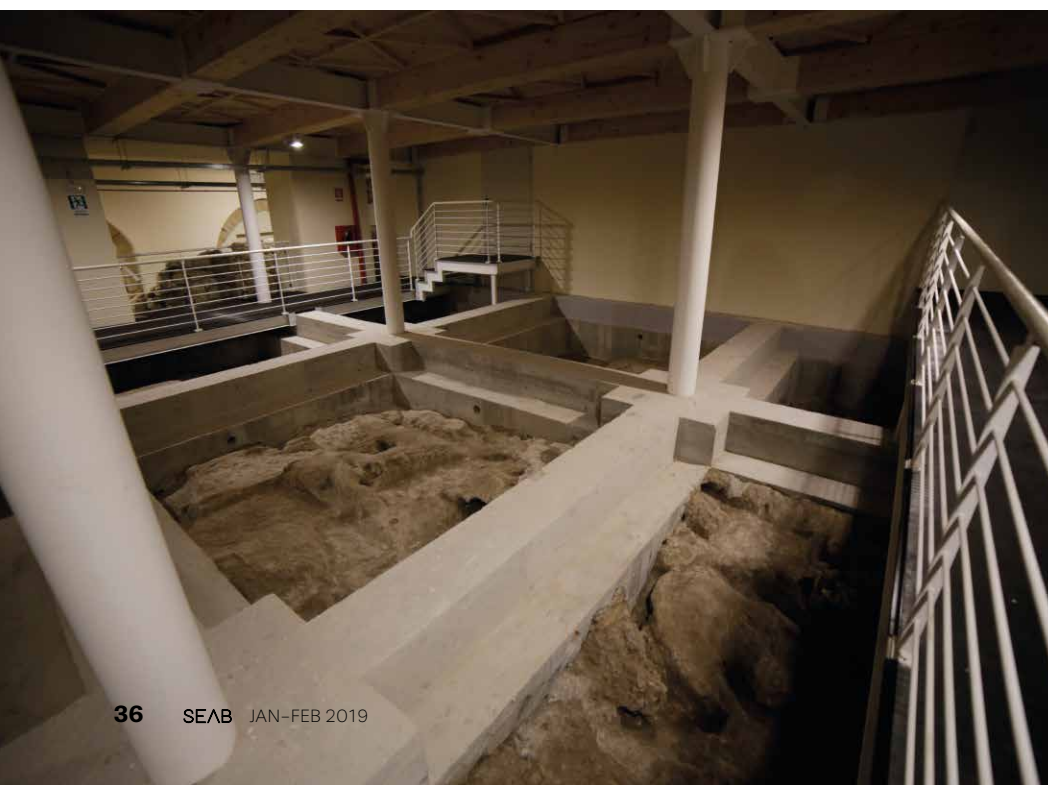
When the theatre is featuring operas, classical music and other shows it can seat 719 spectators, with 477 in the stalls, 184 in the two rows of boxes and 58 in the gallery. There is also a conference hall at gallery level with seating for up to 90 people. The stage is mobile and has a 25 metre scenery tower, while the orchestra pit can house up to 60 musicians.

The designers opted for pale shades to decorate the theatre, playing on a colour scheme of brown, grey, white and beige, and chose to get rid of the red stage curtain. It was also decided to renovate the characteristic zinc cupola, which at the start of the last century was mobile. The upper part of the foyer has been decorated with an archaeological pathway along which the various finds unearthed during the work are exhibited.



Above: TOPCEM PRONTO was used to make the screeds.

Left: The underground passageways which allow you to view the foundations of the old council houses on which the theatre was built at the time.

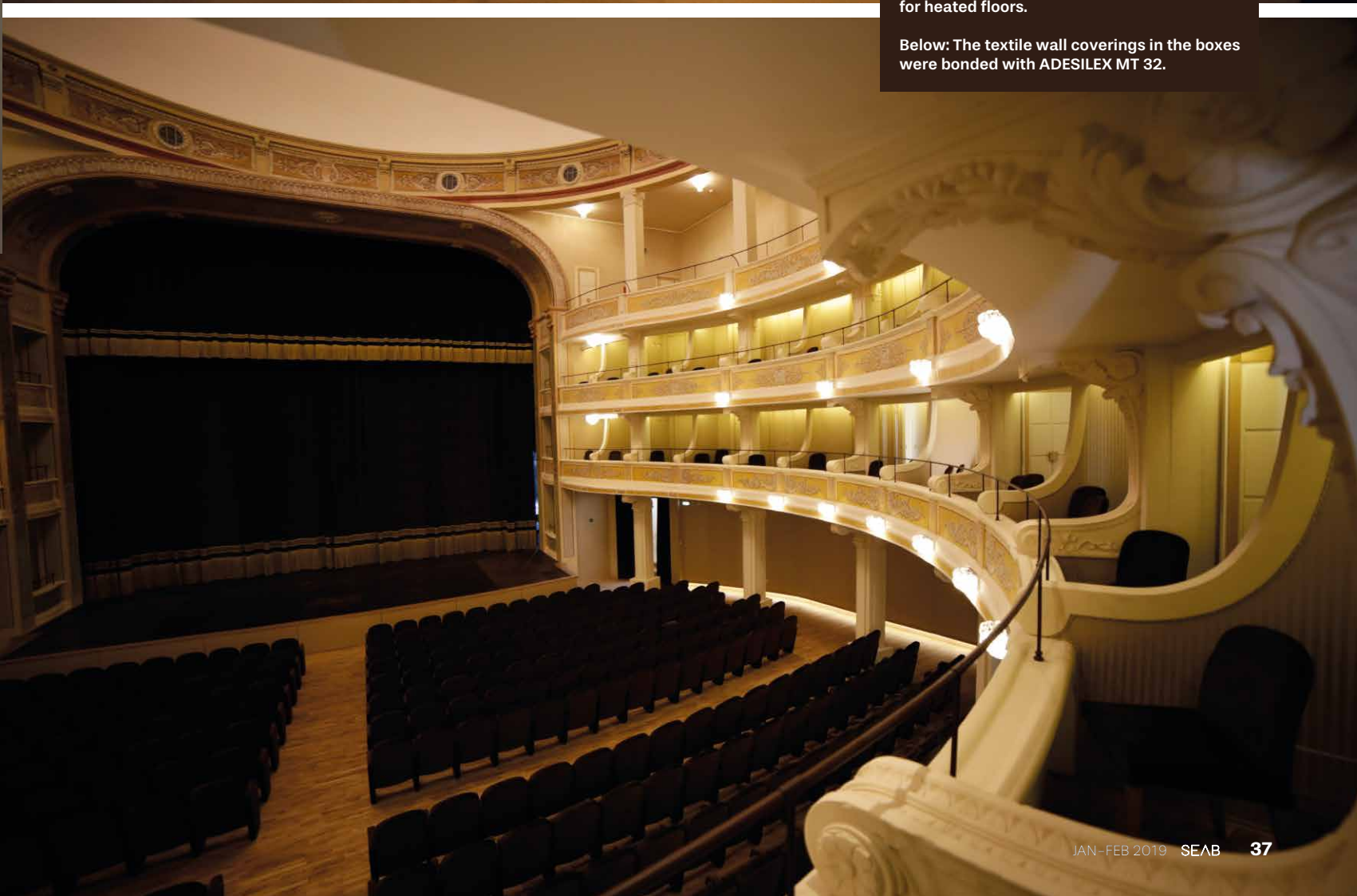


Cutting-edge techniques and composite materials

Mapei Technical Services carried out a series of technical surveys on site, followed by an in-depth analysis of the various problems they had found. Work started with the static consolidation of all the Lecce stone pillars on the ground and first floors and of the pillars in Carparo stone (both typical types of limestone from the Apulia Region) on the second floor and of the concrete pillars of the last floor.



Above: The oak flooring in the stalls and on the three spectator levels was installed with ULTRABOND ECO S955 1K, which is suitable for heated floors.



Below: The textile wall coverings in the boxes were bonded with ADESILEX MT 32.



The concrete pillars on the 2 upper floors, which during the site survey were found to have structural problems, were statically confined with a system comprising PLANITOP HDM MAXI cementitious mortar with Pozzolanic-reaction binders and MAPEGRID G 120 alkali-resistant glass fibre mesh, which is used to provide localised reinforcement for masonry and concrete substrates.

Choosing composite materials proved to be decisive from a structural point of view for several reasons: there is only slight increase in weight and, as a result, overall mass is hardly affected, this strengthening technique is sustainable, is non-invasive and is compatible with renovation work aimed at safeguarding historical and monumental structures of this kind, the materials used are durable over the years and are characterised by high mechanical performance characteristics and, finally, this type of strengthening system, using PLANITOP HDM MAXI mortar, is extremely reliable and is easy to apply and work with.

Working on an historical building

To carry out the restoration work the contractor used various building materials, including special U-shaped profiles which were welded

to the old steel annular beams on the first three floors. This was followed by the application of a layer of MAPEFILL ready-mixed mortar with high-strength cement and special additives, including an expansive agent to completely eliminate the risk of shrinkage during the plastic phase and once the mortar had hardened.

To fill all the cracks, gaps and internal cavities between the Lecce stone elements, including the larger ones, and to consolidate the Lecce stone pillars on the ground and first floors and the Carparo stone pillars on the second floor, the product recommended was MAPE-ANTIQUE I fillerized, super-fluid, lime and Eco-Pozzolan based hydraulic binder. This product was proposed because, once hardened, slurry made from MAPE-ANTIQUE I has very similar characteristics in terms of mechanical strength, modulus of elasticity and porosity to mortar made from lime, lime-Pozzolan or hydraulic lime originally used for the construction of historical buildings.

The importance of consolidation work

Static consolidation of the beam below the cupola, and between the concrete pillars and the floor slab in the stalls area, was carried out using Mapei systems, and in this specific

Above: The wooden floors on the stairways were bonded with ULTRABOND P902 2K.

case, MAPEFER two-component, anti-corrosion cementitious mortar to protect the rebar that had previously been exposed and brought to a bare metal finish, and MAPEGROUT THIXOTROPIC fibre-reinforced, shrinkage-compensated cementitious mortar, which is used to restore deteriorated concrete.

Static consolidation of the annular beams between the pillars was carried out with MAPEFER to passivate the metal elements and MAPEGROUT HI-FLOW shrinkage-compensated mortar to reintegrate the concrete.

In the stalls area on the ground floor, Mapei Technical Services recommended to the contractor to apply a de-humidifying system comprising MAPE-ANTIQUE RINZAFFO transpirant, salt-resistant, lime and Eco-Pozzolan scratch-coat mortar and MAPE-ANTIQUE MC macro-porous, de-humidifying, rendering mortar, which is used to renovate old masonry.

For the areas without rising damp – the foyer, the remaining part of the stalls and the intrados of the floors in the gallery – the product used was MAPE-ANTIQUE INTONACO NHL transpirant, natural

hydraulic lime and Eco-Pozzolan base mortar, which is recommended for new and existing masonry, including in buildings of historical interest, such as in this particular case.

For the two main concrete stairways leading to the boxes, the service areas below the foyer and the dressing rooms under the stage, the product used was INTOMAP R1 aerated lime and hydraulic lime based base render, while PLANITOP 530 fine-textured mortar for render and concrete and PLANITOP 560 ultra fine textured mortar for render were used to smooth the relative areas of lime-cement based surfaces.

Installation of wooden and textile floor and wall coverings

The internal floors in the Apollo Theatre (around 1,200 square metres in total, including the heated floors in the stalls, the 48 boxes, the gallery and the various connecting stairways) were also renovated.

The design included a heated screed with underfloor heating for the stalls area made from TOPCEM PRONTO ready-mixed, normal-setting, controlled shrinkage

mortar, which is used to make rapid-drying screeds.

The existing screeds in the boxes were restored and consolidated with PROSFAS solvent-free consolidator with high penetration capacity for cementitious substrates. It helped improve the adhesion between the new render carried out with TOPCEM PRONTO and the old existing substrate. EPORIP epoxy adhesive was used to seal the cracks.

Once work on the installation substrates had been completed, the wooden flooring was installed. The first step was to waterproof all the surfaces with ECO PRIM PU 1K solvent-free, moisture hardening primer with very low emission of volatile organic compounds (VOC).

For the stalls and the three floors of the theatre, including the boxes, oak floorboards (measuring 1,830mm x 129mm x 22mm) were installed with ULTRABOND ECO S955 1K solvent-free, silylated polymer-based adhesive with very low emission of volatile organic compounds (VOC), which is suitable for use with heated floors, while for the flooring on all the stairways, again in oak, ULTRABOND P902 2K epoxy-polyurethane adhesive was the preferred choice.

The polyester textile wall coverings for the boxes were bonded in place with ADESILEX MT 32 adhesive in water dispersion, which is ideal for installing wall coverings.

MAPEI PRODUCTS

To make screeds: Eco Prim PU 1K, Eporip, Prosfas and Topcem Pronto

Static consolidation and renovation of render: Mapefill, Mape-Antique I, Mapefer, Mapegrid G 120, Mapegrout Hi-Flow, Mapegrout Thixotropic and Planitop HDM Maxi

Renovation of render: Intomap R1, Mape-Antique Intonaco NHL, Mape-Antique MC, Mape-Antique Rinzaaffo, Planitop 530 and Planitop 560

Installation of wooden flooring: Ultrabond P902 2K and Ultrabond Eco S955 1K

Installation of textile floor covering: Adesilex MT 32

Article source: Realtà Mapei International no. 65/2017

For more information, email mapei@mapei.com.sg.

PROJECT DATA

Project Name: Apollo Theatre

Location: Lecce, Italy

Original Project: Tassoni

Construction Period: 1912-1926

Period of Intervention: 2008-2016

Intervention: Restoration and static consolidation of the Apollo Theatre with the promotion of the archaeological dig and access to view the various finds

Intervention by Mapei: Supply of products for the static consolidation of structures, to re-make screeds, to waterproof walls and to install wooden floors and textile wall coverings

PM: Giovanni A. Dell'Anna/Lecce City Council

Design: Pier Luigi Cervellati, Studio Barletti Del Grosso&Associati, Franco Malgrande, Etacons s.r.l., Studio R.P. Engineering, Vito Alvino, Batimat s.r.l., Mario Catania (conservation/restoration specialist) and Daniele Paolin

Client: Lecce City Council

Works Directors: first design: Luigi del Grosso; second design: Silvio Cillo/Lecce City Council

Main contractors: ATI: Nova Urbs srl; Oprar Div. Impianti Srl; Giovanna Izzo Restauri Sas

Flooring and Wall Covering Contractors: wall coverings: Operapulia Soc. Coop.; wooden flooring: Gravina Parquet Srl; Indennitate Agostino

Mapei Coordinators: Achille Carcagnì, Giammario Dispoto, Michelangelo Occhiogrosso, Danilo De Matteis and Giovanni Villani (Mapei SpA)

Photos: Video Foto Spot, Lizzanello (Lecce, Italy)



After



Before

Haveli Dharampura

Shahjahanabad is a city with the colossal Red Fort and 14 gates. The emperor Shahjahan built Shahjahanabad, the old city of Delhi in 1648 AD with the concepts of medieval city layout. This old city was an enclosed fortified city with rubble wall, bastions and gates at regular intervals. Fortified neighbourhood with arterial lanes, built fabrics on both sides and neighbourhoods and *mohallas* are the main features of Delhi. The buildings in the old city are distinct in spatial planning, architecture, decorative elements and climate responsive features.

The lane had all the suspended electrical, data and phone cables overhanging from the poles down to the street. The dilapidated elements, the fragile structure and open service connections were major constraints on the site. Multiple cracks on the columns as well as the walls and large patches of dampness made the heritage look like an ordinary run down building. Decorative plaster work was hidden under the multiple coats of lime wash.

Built during late Mughal and colonial periods, the facades of havelis were magnificently carved in buff and red sandstone adorned with floral patterns, sculptures and fluted modulations. With a centrally placed courtyard surrounded by rooms the interiors followed courtyard planning. Beautiful *jharokhas* (windows), Chattris (umbrellas), small decorative balconies, fluted columns, well designed *chabutras* (platforms), traditional *baithkas* (drawing rooms) and marble floors are features of the Mughal Architectural styles.

A peek into the conservation

The designing process by Spaces Architects@ka in New Delhi, India involved an elaborate two-year research of the entire urban fabric of Chandni Chowk. The resulting space had elements from Hindu, Mughal, Jain & Rajasthani Architecture. The approach was to amalgamate traditional architecture with contemporary modern architecture to create an inviting space for both Indian & foreign visitors.

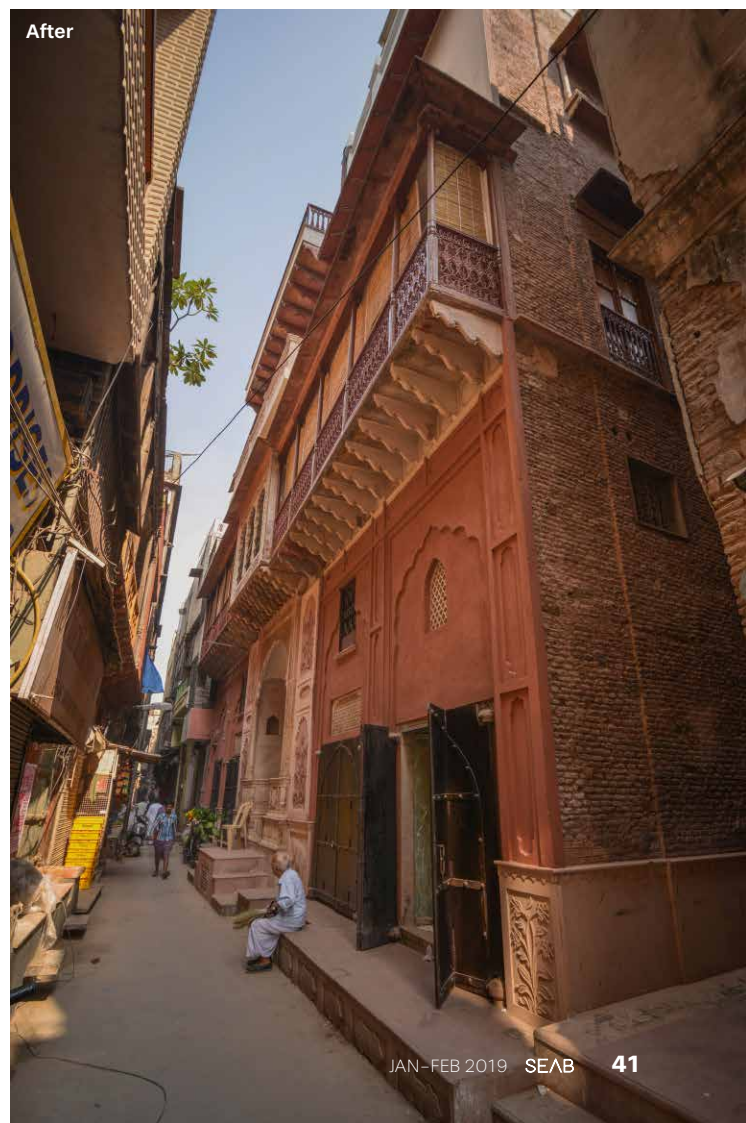
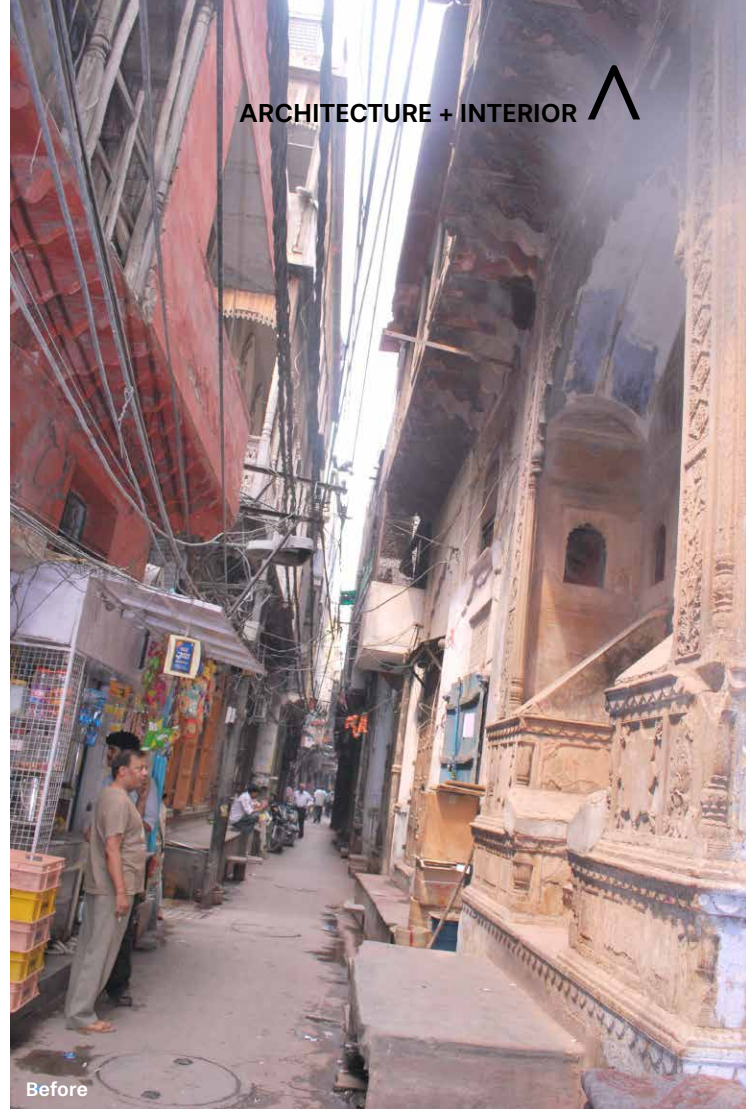
The architecture firm visited almost all the old cities of India to understand the relevance of such a project and to collect a large number skilled labour that have an understanding of traditional haveli style of architecture and its elements. The architecture firm replicated almost all the elements which were used earlier, some of them in a modern way.

Every room or space has its own theme which reflects various flavours of architecture and livelihood of Chandni Chowk. All furniture, lights and artifacts were custom designed for different spaces according to its use and the theme taken.

Walking down the haveli

Ar. Kapil Aggarwal of Spaces Architects@ka and owner Mr. Vijay Goel had a vision to conserve and protect the architectural heritage, hence an attempt was made to keep its aesthetic value intact and restore it without muddling with the fundamental structure from the Mughal Era. The original huge 135-year-old wooden door with carvings and M.S. strips were refurbished and placed as the entry door to the Haveli. The ceiling is done with interesting patterns of madhubani art. The entry to the main Haveli has a silver cladded door, in line with the lift lobby.

The open courtyard has an octagonal flooring pattern with a water fountain at its centre, which is replicated form of courtyard planning typical to any haveli. The existing Haveli had a Ground +2 structure where the 2nd floor was inhabitable with broken floor slabs and access to the floor. The architect had to retrofit various spaces like restaurants, a museum, shops and different types of rooms in the renovated and structurally improved Ground +1 structure and construct the 2nd and 3rd floors and a terrace area. To achieve this - a rigorous overhaul





Before



After

process was performed. The main structure was strengthened by epoxy grouting, FRP wrap addition and columns at places required. All the slabs were repaired and micro-concreting was done at places. All architectural elements were replicated in the same scale and finish but the materials were changed to make it better and cost efficient. These elements were all reconstructed with the help from very skilled labour hand-picked from several of India.

The idea was to stagger all these functions around the courtyard, providing good visual connectivity, improving the light and air quality throughout the Haveli. On the ground floor the courtyard extends into the restaurant area through the wide glass panels which replaced the existing doors under arches. The upper floors are placed with a setback from the floor below it. This helps more in the visual connectivity.

Lakhori, the traditional accent of the restaurant

The concept for the restaurant was to give it an antique look with Lakhori brickwork and retaining the existing arched vaults. The area was previously being used as living room plus store. The restaurant on one side opens up to the courtyard with the view of full height of haveli and the other side has green painted doors which separate the family dining spaces from the common restaurant.

The restaurant holds the capacity of 50 persons and the furniture is finished in dark polished wood which adds on to the natural look of the lakhori bricks.

The ceiling has been painted with rough textured stucco. In terms of innovation, the architecture firm has also designed a decorative chandelier for the restaurant area. Laser cut M.S boxes of 1.15 metres x 0.5 metres were fabricated in dark antique copper finish with provision for light bulbs at the centre hung from the ceiling through tension wires. Amalgamation of the different shapes, elements and materials which were used in the past in such havelis, with the concept of the refurbished space resulted in such a design.

An envelope around the courtyard, a traditional pertinency

The first floor has six rooms and a spa. The rooms have specifically designed furniture, walls, ceiling, washrooms, lighting and view of the courtyard. Also the sizes of the rooms also vary, so the retrofitting of similar "unit" designs was not possible.

All the rooms open up to the courtyard with immense inflow of natural light, airflow and visual connectivity. Above the reception area on the ground floor, private suites (two suites per floor) have been placed in the first and the second floor with a small covered courtyard.

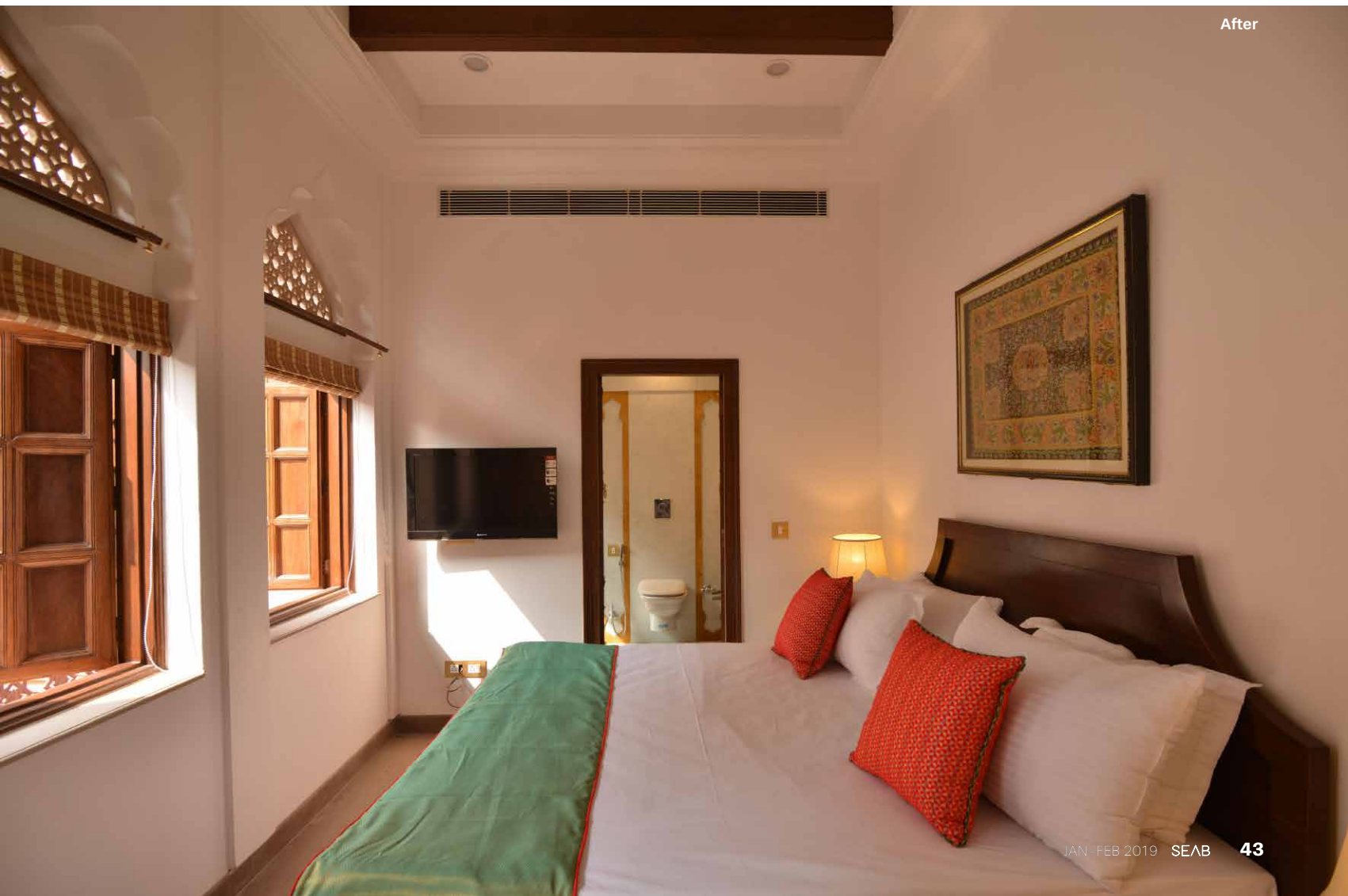
This space of the Haveli is called the "Choti Haveli" which translates to small Haveli, because it in itself has all the features and architectural ambience of an entire Haveli. These suites are large rooms with a living area, bedroom and a lavish toilet. The living area and the bedroom are separated by existing Rajasthan style architectural arches and columns. These rooms have windows opening into the narrow lanes of Gali Anar infusing the life of old city into the Haveli.

The railings of the corridor on all floors are "modern clones" of the existing haveli heritage. The balustrades are made of painted GI members and the handrail is wooden. A play of light and shadow continues throughout the day on the white stone floors through the railings.

Above the restaurant is another suite and a huge terrace area in the front facing the courtyard. The terrace area has the backdrop of arches and glass panels. These arches are replicated on the floor by laser cutting black mosaic stone in the shape of arches and placing in its front creating the effect of shadows of these arches. This terrace is the most visually connected space in the Haveli and hence it can be used



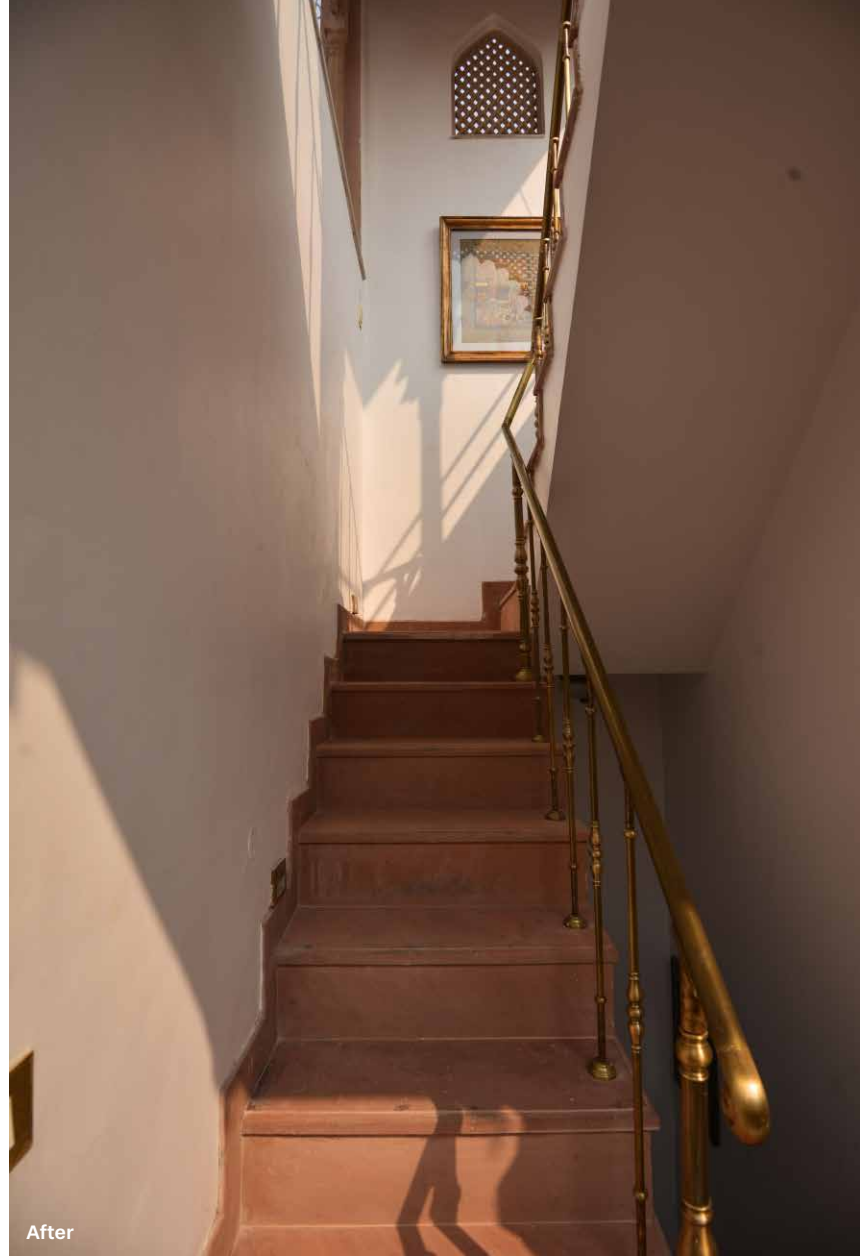
Before



After



Before



After



“ *Haveli Dharampura has been journey of rediscovering our heritage and interpreting it in a modern way, a project which not only conserves and present our heritage but merged with the present culture of old Delhi, a project we are proud of.* ”

– **Kapil Aggarwal**, Founder and Owner of Spaces Architects@ka

as a space for dance/music performances. The second floor has seven rooms which includes three suites. The corners of every floor have small pockets of spaces which are used as open sheeshah rooms with a lounge setup of furniture.

Terrace, a visual delight

The third floor cum terrace area is the major highlight feature of the Haveli. The terrace holds a view of the majestic Red fort, Jama Masjid and other landmark locations like Sis Ganj Gurudwara and Shankaracharya/Jain mandir. The terrace becomes the vantage point where one can have the view of whole Chandni Chowk area bringing its life and essence into the Haveli.

A huge *jharoka* has been hanged from the walls of the third floor which covers a corridor behind and is white painted. The railings of the *jharoka* are laser cut stone patterns. This is an amalgamation of Rajasthan's architecture style and Jain's Architecture style into the space.

The terrace also holds a part of the restaurant with the main attraction being the sitting below the "*Barah Dhari*" which is a structure made of wooden cladded M.S. columns and beams and a glass pergola. The wall behind the *Barah Dhari* is treated as a water wall and highlighted with fountains to lend an exquisite dining experience. The flooring is created with zigzag patterns of black and white stones bring more essence to the space. The mummy of the staircases are not left untreated. They are again highlighted with different coloured stained glass, *jaalis*, and stone carving of traditional elements. The wall of lift machine room has been treated with mural inlay inspired from Mughal style of floral patterns in stone. It is also decorated by wooden windows and traditional brackets.

A thoughtful revamp

All elements and architecture in the Haveli have been designed after careful study and caution to bring back its life in the best way possible and help gain its own respect as it was supposed or used to have in timeline when it was constructed. The Haveli holds the privilege of being the first of its kind to show the life of old Delhi like never before. With such breathtaking panoramic views, the Haveli becomes one of the best traditional get-away in or around Delhi. The Haveli Dharampura won a Honourable Mention at the 2017 UNESCO Asia-Pacific Awards for Cultural Heritage Conservation.



Before



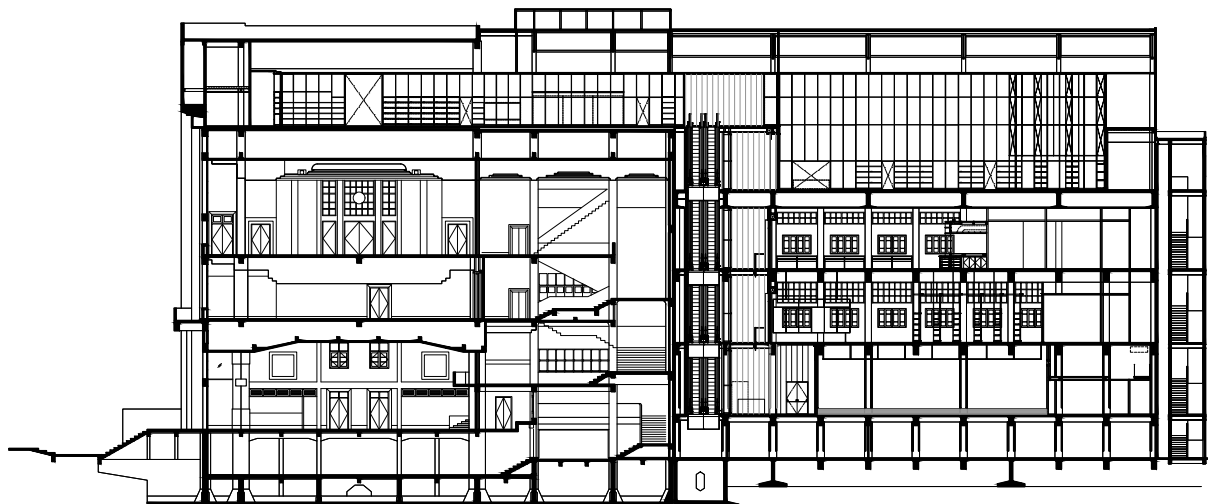
After

PROJECT DATA

Project Name: Haveli Dharampura
Location: Old Delhi, India
Client: Mr Vijay Goel
Architect Firm: Spaces Architects@ka
Floor Area: 415 square metres
Completion: August 2015
Photos: © Bharat Aggarwal



Thailand Creative and Design Center houses state-of-the-art facility inside an 80-year-old building



Thailand Creative and Design Center (TCDC) is a government agency with a mission to inspire creative thinking in the society and to propel the country's creative economy. It provides a broad range of resources and services. The main components are a design library, a material library, and a co-working space. Other components include a makerspace, exhibition spaces, and workshops.

TCDC is now moved to its new place in the side and back wing of the historical Grand Postal Building. The design of the space is intended for the new intervention to have a dialogue with the old building and at the same time to answer to TCDC's mission to be the country's creative incubator.

A creative space is not 'creative' because of how it looks but it is a place that inspires. It is about creating a space where people can connect, discuss, and work together. It is a place

where people can see and be seen on the activities they do to inspire one another. It is a place that would allow for the new and the unknown events to happen, a reprogrammable space. It is a place that surrounds us with inspiring resources and knowledge, with books and digital media, and rotating exhibition spreading throughout.

The resource centre is not planned as traditional silence libraries. Instead, a large portion of space is designed to encourage conversations in a setting more like a cafe or a co-working space. These work spaces are spread throughout the building mixing with other programs where work and discussion can happen everywhere. The openness of the space brings people together and allows for them to start to interact with a spontaneous conversation. The main circulation cut through the section of the building bringing people to flow pass different





“ One of the key design challenge is how to compose a creative space which has a personality of the future to have a dialogue with this important building which has a strong sense of a history in an interesting and meaningful way.

– Ms Twitee Vajrabhaya,
TCDC Project Lead
Architect

facilities to be inspired by what others are doing. Most of the spaces are flexible with movable furniture and adjustable systems to allow for flexible situation and various creative activities to happen. Exhibition nodes are integrated into all spaces – with shelving systems, wall systems, spaces along corridors, corner spaces, central spaces. Fresh ideas are always presented within reach and always surround us for inspiration.

Within the historical building, the new is inserted as an object, placing within and offsetting from the existing envelope, clearly revealing architectural features from the 30's. The present-day material in its light, translucent, blurring, and glowing quality is having a dialogue with the massive character of the historical shell. The new and the old are interestingly contrasting, enhancing and complementing one another.

This translucent architectural system wrapping around and inserting throughout the facility is holding the essence of what TCDC provides – inspiration and knowledge. It is designed to contain everything from books, magazines, material samples, digital media, mini exhibition, brainstorm boards, announcement, etc. The inspiration runs through and encompasses all the creative spaces.



PROJECT DATA

Project Name: Thailand Creative and Design Center
Location: Bangkok, Thailand
Client: Thailand Creative and Design Center
Architect & Interior Design Firm: Department of Architecture Co., Ltd.
Floor Area: 9,820 square metres
Completion: May 2017
Photos: © W Workspace





One of the oldest buildings on the site, the Barrack Block was built between 1862 and 1864 and is situated on the southern side of the Parade Ground. Now it houses Tai Kwun Store, visitor centre, and also two heritage storytelling spaces where visitors can find their own way to experience the past and present days of the Central Police Station compound.

Old meets new at Tai Kwun - Centre for Heritage and Arts

Tai Kwun – the largest revitalisation project in Hong Kong – had a spectacular opening ceremony on 25 May 2018 after 10 years in the making.

Comprising 16 historic buildings and outdoor spaces on a 13,600-square-metre site in the heart of Central, Tai Kwun is home to three declared monuments, the former Central Police Station, Central Magistracy and Victoria Prison, which have borne witness to more than 170 years of Hong Kong history.

Led by The Hong Kong Jockey Club in partnership with the Government of the HKSAR, the revitalisation project involved the conservation of the heritage buildings in the compound and the addition of two new buildings to serve the needs of the community. The two new buildings are JC Contemporary, a gallery building with a contemporary art space, and JC Cube, an auditorium building for the performing arts, film screenings, educational events and more.

Retracing its involvement in the

project, the Club took up the challenge of revitalising the Central Police Station compound because of its vision of a Hong Kong that is not only a great commercial city, but also one that is renowned for its cultural vibrancy, where people enjoy, value and participate in a diverse range of cultural activities.

This vision has inspired the conservation of the compound and its transformation into Tai Kwun – Centre for Heritage and Arts, an accessible place to engage with the lessons of the past and the possibilities for the future. Visitors will be able to learn about Tai Kwun's judicial and law enforcement history and its many connections with the local community.

They will also be able to develop their appreciation for the arts through exhibitions and performances, education and outreach activities. In addition, Tai Kwun will play a vital role in stimulating the arts, providing a platform for Hong Kong artists to showcase their talent and develop their creativity.

At the heart of this project has been the Club's determination to set a new standard for heritage conservation in Hong Kong.

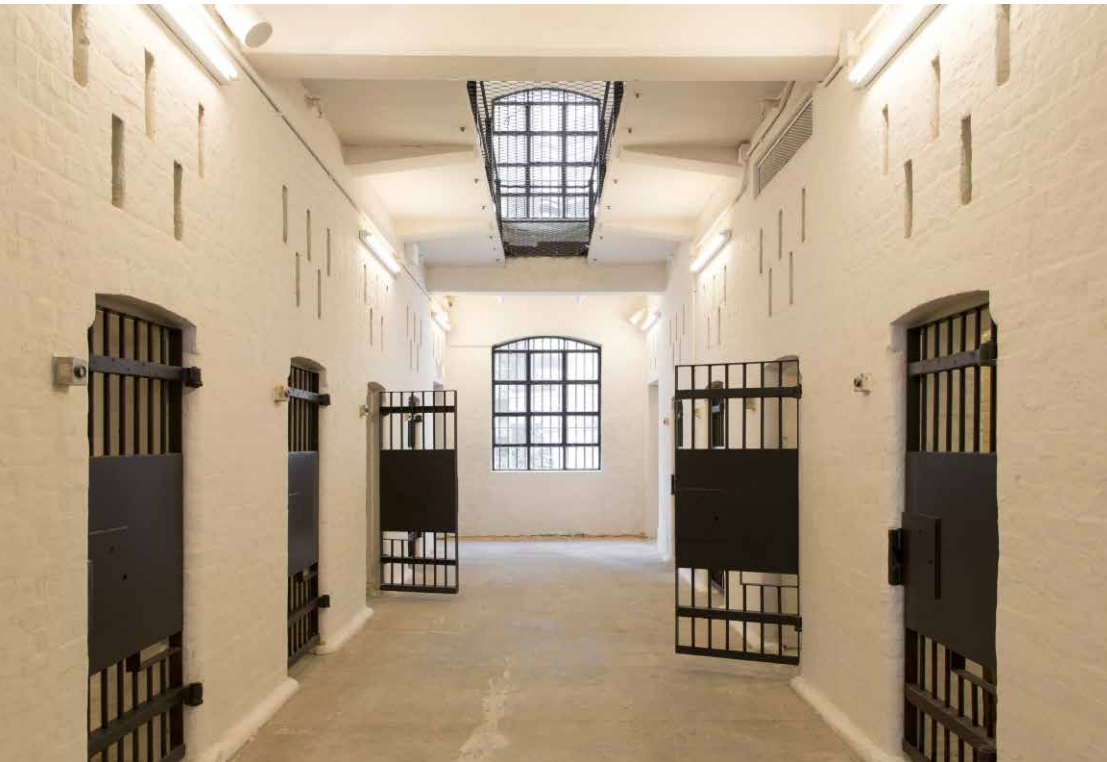
Drawing on the advice of experts from Hong Kong and overseas, and with input from the community, the Club has pursued a heritage-led plan to conserve the site. Building-by-building, room-by-room, it has been returned to its former glory with the closest attention to detail.

10 years in the making, Tai Kwun has finally opened its doors. Once a closed compound to the public, Hong Kong citizens are now able to visit and appreciate what is one of the heritage glories of the city.

Located in the heart of Central, Tai Kwun is a place where the old meets the new and where heritage meets the arts. For over a century and a half, Tai Kwun was closed to most people. Today, it has been transformed into a cultural destination for all to enjoy which will encourage creativity and provide the



Completed in 1919, the Police Headquarters Block is one of the most impressive heritage buildings in Tai Kwun. Forming the public face of the complex, the north-side facade is a Neo-Classical revival while the south side features Classicist design. The building now houses a Heritage storytelling space, a police service centre, shops and restaurants.



Work on E Hall was completed in 1915. The building is visible from both Arbuthnot Road and Chancery Lane. Constructed using prison labour, the building is of a similar design to B Hall. The building now houses a lounge and back-of-house facilities for the JC Cube's multi-purpose auditorium.

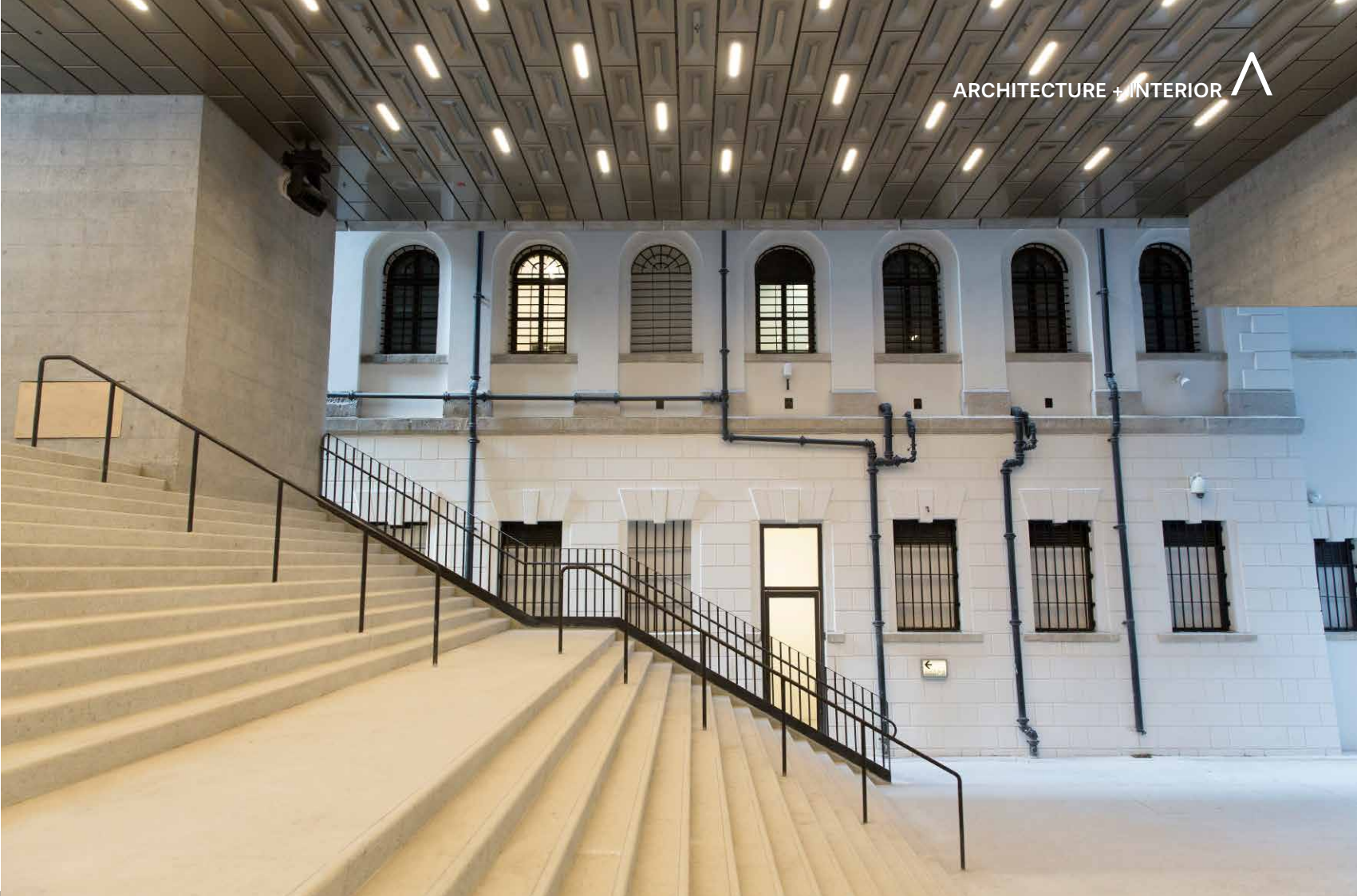
community and visitors with a vibrant mix of heritage, arts and lifestyle experiences.

Tai Kwun spans a construction floor area of 27,900 square metres and features two large outdoor areas – the Parade Ground and the Prison Yard – and a newly created semi-covered area under the auditorium. The revitalised site also provides for multiple pedestrian access points linking various parts of Central and includes the creation of a new footbridge connecting to the Mid-levels Escalator System.

Tai Kwun recorded over one million visitors in early October and was named by TIME Magazine in August as one of 100 World's Greatest Places 2018, which span six continents and 48 countries and territories. Tai Kwun was also named "New Culture Destinations of the Year – Asia Pacific" at the Leading Culture Destinations Awards 2018 held in London on 28 September.

One of the two major outdoor spaces at Tai Kwun, the Prison Yard was used as a space for prisoners to exercise, and now hosts performances and cultural programmes.

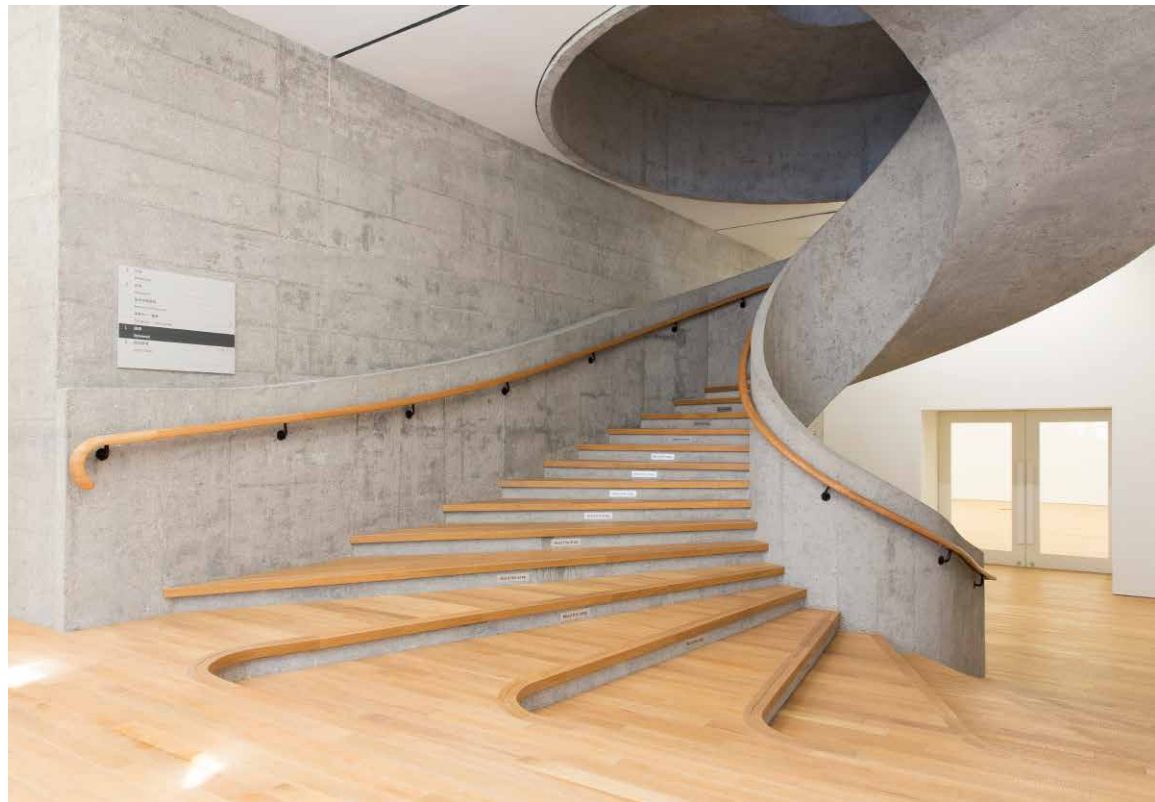




The space next to E Hall used to house the laundry workshop. Hence its current name: the Laundry Steps. It now becomes space for performances.

PROJECT DATA

Project Name: Tai Kwun – Centre for Heritage and Arts
Location: Hong Kong
Client: The Hong Kong Jockey Club in partnership with the Government of the HKSAR
The Architect + Masterplanning: Herzog & de Meuron
Executive Architect: Rocco Design Architects Limited (RDA)
Conservation Architect: Purcell
Construction Floor Area: 27,900 square metres
Opening: May 2018
Photos: © Tai Kwun



One of the two new buildings designed by Herzog & de Meuron, JC Contemporary will house exhibition spaces as well as a viewing terrace and a restaurant. The building connects to the gallery space in F Hall.



Xuhui Runway Park

Xuhui Runway Park is an innovative urban revitalisation project that traces the history of the urban development of Shanghai. Formerly a runway for Longhua Airport, the park's design scheme mimics the motion of a runway, creating diverse linear spaces for vehicles, bicycles, and pedestrians by organising the park and the street into one integrated runway system. While all the spaces are linear in shape, diverse spatial experiences are created by applying different materials, scales, topography, and programs. In this way, the park serves as a runway of modern life, providing a space for recreation and respite from the surrounding city.

For the Runway Park, it was imperative to create a design that transcended time and space, bringing a piece of the site's past into the modern fabric of the city. The design preserves portions of the runway's original concrete where feasible, including the reuse of broken concrete pieces to build paths, plazas, and resting areas. Many of the park's spaces recall the ascending and descending experience of being on an airplane, which connect visitors to the past while also providing varied viewpoints of the site.

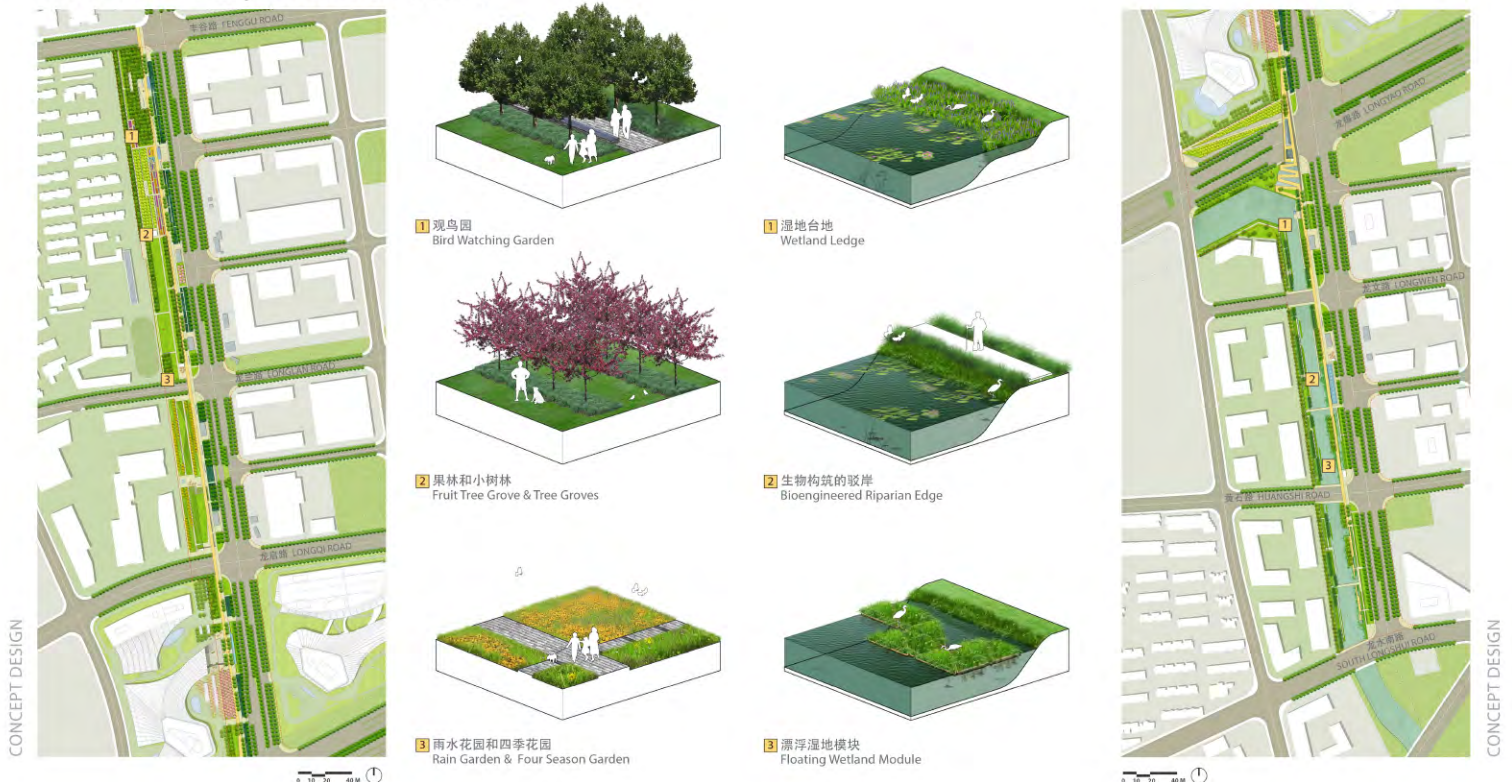
The street layout creates a compact urban district by limiting the width of vehicular travel lanes and promoting public transit over the use of passenger cars. Additionally, six

rows of deciduous street trees are planted along sidewalk, bicycle lanes and vehicular median, creating a comfortable microclimate, seasonal effect and human-scaled boulevard. Sunken gardens are sited between the park's subway station and neighbouring development parcels, improving the walking experience to and from the subway while enriching the spatial composition of the park.

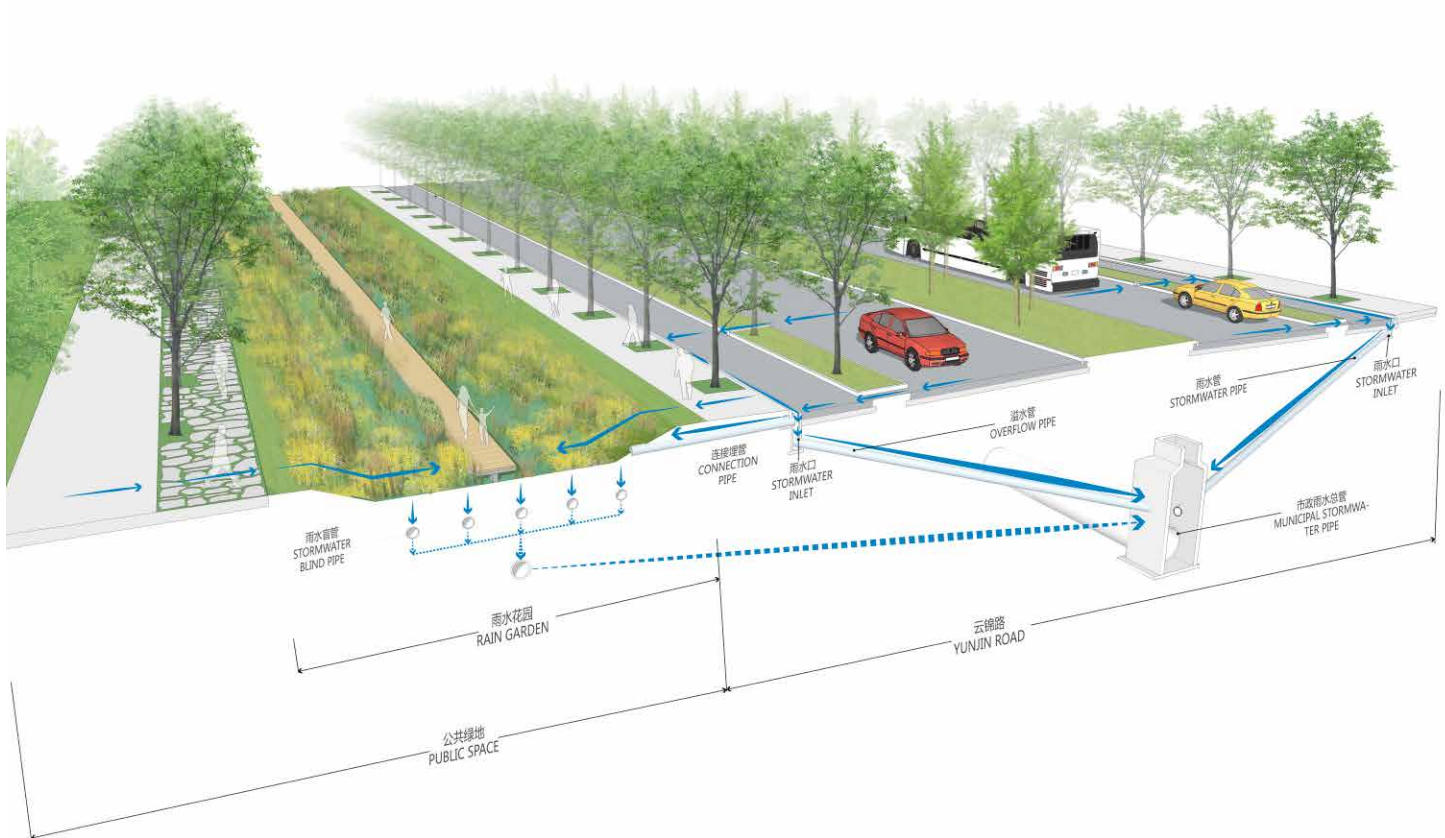
Diverse wildlife habitats are integrated with various landscape programs, with 100 percent plant species native to the Yangtze Delta. These habitats include both land and marine typologies. A bird watching garden, fruit tree groves, and various garden types define the land. A wetland edge, bioengineered riparian edge, and a floating wetland module make up the marine forms.

The historic aerodynamic and industrial sensibility of the site is referenced through the use of lighting poles that recall the transmission of communication and airfield illumination of the airport. In-ground lines and dots of light outline the former runway and will serve as a signature visual element for the park. Lit handrails, benches, shade structures, and elevated pathways will, along with the environmental graphics package, provide a visual boundary for the current planned usage. All lighting is refrained from the habitat area and nocturnal life.

概念设计 | 生态设计
CONCEPT DESIGN | ECOLOGICAL DESIGN







“ The challenge was to minimise to the extent possible the costly removal of runway, while looking to build new streets, infrastructure and future development. We were able to design around and leave in large portion of the runway in-place. In those instances we used super graphics on the surface that reflects back on the day when the airport and runway was active. Of the debris that was removed we re-purposed the larger removed “chunks” of runway into an informally arranged porous paver field that aligned with the rain gardens and constructed wetland filtering storm runoff before entering the subsurface drainage systems.



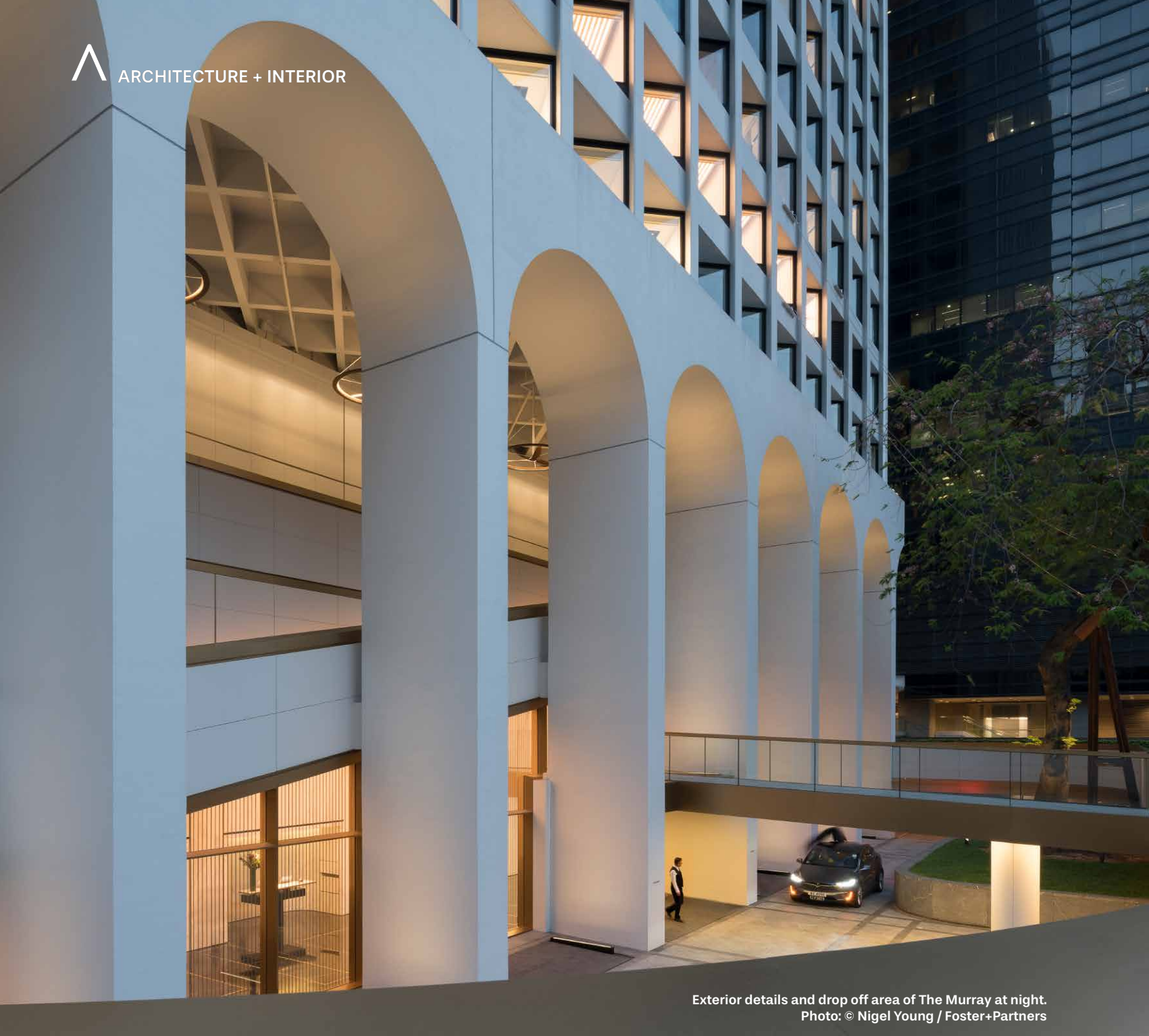
– Mark Dawson, FASLA, PLA, Sasaki Principal

The stormwater from Yunjin Road and the park is managed through the 5,760-square-metre rain garden and 8,107-square-metre constructed wetland along the road. It will be the first roadside rain garden system to be built in the city of Shanghai. While runoff from the northern half of the site passes through the integrated rain gardens before discharging into the drainage canal, the southern half of the site will drain through a series of filtering wetland edges. The combination of open forebay channels to slow velocities and planted wetland ledges help reduce suspended sediments and pollutants from the street runoff. All site runoff eventually reaches the Jichang Canal – draining to the Huangpu River.

Xuhui Runway Park kicked off in 2016 and two segments were recently completed, from Longlan Road to Fenggu Road, and from Longyao Road to South Langshui Road. They are now open to the public, and have been embraced by the district’s residents as a new social space for the community.

PROJECT DATA

Project Name: Xuhui Runway Park
Location: Shanghai, China
Client: Shanghai Xuhui Waterfront Development Investment Construction Co., Ltd
Design Firm: Sasaki
Size: 8.24 hectares
Completion: In progress
Images: © Sasaki and © Qianxi Zhang



Exterior details and drop off area of The Murray at night.
Photo: © Nigel Young / Foster+Partners

The Murray

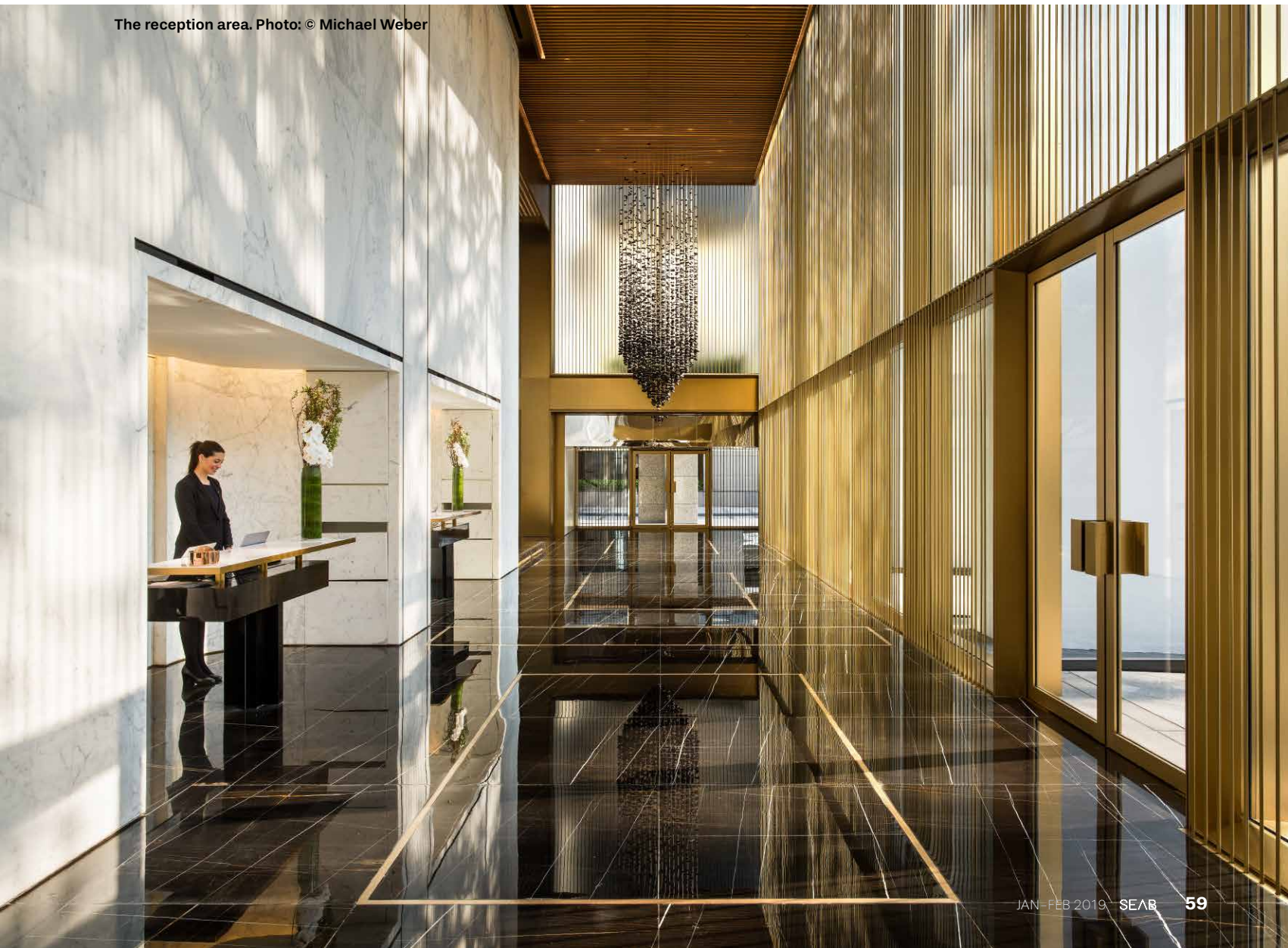
The Murray is a luxury 336-room hotel located on the southern edge of Central with panoramic views of The Peak and the gardens to the south in Hong Kong. This major transformation of the listed building aims to reinvent this unique urban quarter – stitching together the urban fabric by linking the large green spaces flanking the site to the east and west.

A former government headquarters tower, the Murray Building was originally designed at a time when the city was planned around the car, and consequently stands on an island site, surrounded by roads making it impermeable for pedestrians. One of the central aims of the project is to reconnect the building with the city at ground level, creating a new street frontage on Garden Road, transparent and welcoming ground floor spaces, and enhancing and extending the landscaped grounds to incorporate a public tai chi area. At the tower's base is a sequence of four-storey high arches intersected by a podium, and a vehicle ramp, which is a distinctive feature of the original building.



Exterior details. Photo: © Nigel Young / Foster+Partners

The reception area. Photo: © Michael Weber





Exterior view of the Murray.
Photo: © Nigel Young / Foster+Partners

A large Old and Valuable tree, which rises up through a void in the parking slab of the podium has been liberated and conserved as the centrepiece of the arrivals sequence for guests.

The architecture of the original building is in direct response to the climate of Hong Kong – the windows are recessed and carefully orientated to avoid the harsh tropical sunlight – gaining it an Energy Efficient Building Award in 1994. The design team consulted Ron Phillips, the original architect from the public works department, thus gaining valuable insights into the building's history. The new design retains the façade while upgrading other aspects of the building and extending the life of the building by introducing a new function appropriate for changing demands of the city – giving it a sustainable legacy for years to come.

The tower is characterised by the distinctive pattern of its white facade, which is made up of a grid of square windows. In a fusion of interior and exterior, the inset bays provide a modular unit and organising principle for the hotel rooms, allowing for a variety of planning options. The upper level suites are angled to create a generous central living space. Luxurious corner suites benefit from spectacular dual aspect views of the harbour and the peaks and gardens.

"Our design for The Murray creates a dialogue between the old and the new – giving the building a new lease of life and a renewed purpose, with a unique sense of character that is embedded within the fabric of the building. It recalls the tradition of the grand hotels with its distinctive presence and seeks to redefine the idea of luxury, which is about a generosity of space, a sense of calm, and an inherent understanding of how the hotel responds to the needs of the guest. The experience is seamless – from how the guests arrive at the destination, and then travel through the building to the interiors that showcase the inherent beauty of the materials, all coming together within a holistic vision for The Murray," said Luke Fox, Head of Studio, Foster + Partners.



“ Our design for The Murray creates a dialogue between the old and the new – giving the building a new lease of life and a renewed purpose.

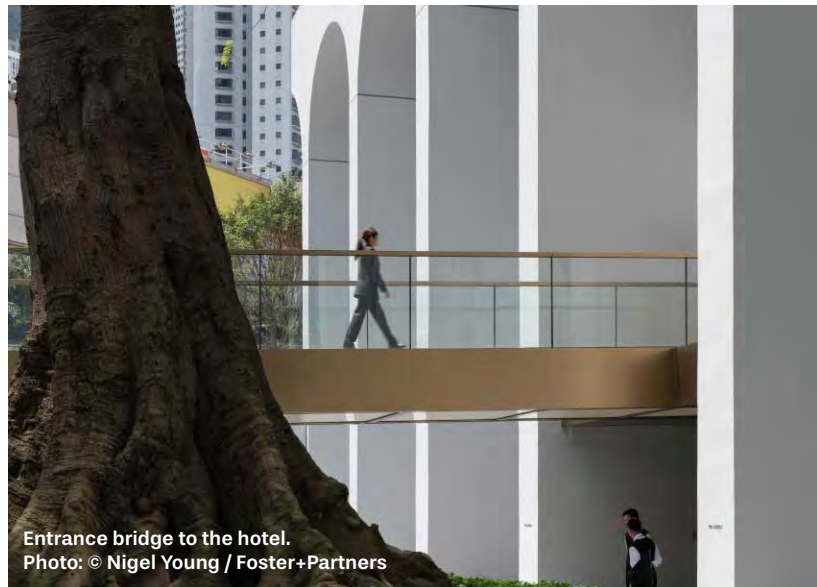
– Luke Fox, Head of Studio, Foster + Partners



Penthouse suite.
Photo: © Nigel Young / Foster+Partners



POPINJAYS, rooftop bar and restaurant.
Photo: © Nigel Young / Foster+Partners



Entrance bridge to the hotel.
Photo: © Nigel Young / Foster+Partners

PROJECT DATA

Project Name: The Murray
Location: Hong Kong
Client: The Murray Limited
Architect Firm: Foster + Partners
Floor Area (Gross): 33,750 square metres
Completion: December 2017



Golkar Jakarta Office

Golkar DKI Jakarta as the client is one of the largest and oldest political parties in Indonesia. The architecture firm, Delution's biggest challenge in running this project was how to realise a political party office that can have social values for people outside and within the office environment with a limited budget and time.

Departing from the existing conditions that already have two buildings consisting of one that functioned as an office and one that only leaving concrete structure. Delution tried to renovate these old buildings by using the concrete structure building mostly for the office area. The architects at Delution tried to revive it with "Green reviving" concept where they wrapped the old building bone with plant so it can breathe and makes it feel cool. Delution felt that this solution was the most efficient both from cost and time also produced

a better face and a better architectural climate. This way can be done without changing the old bone building so the work could be done faster. The material that Delution used was mostly raw material that they packed aesthetically, so that it can be a solution for time, cost and beauty as well. Meanwhile, Delution used the other building as additional land for public areas focused on the ground floor. The architect flattened it, and they transformed the land into amphitheatre and "square" as a gathering place for people. Thus, they created a political party office, which at first seemed stiff and closed, to become a public area that can be enjoyed by the community. Delution also changed the society's bad paradigm about political party office. Until now the Golkar office is a destination for people to hang out and do activities.





EXISTING



AFTER RENOVATION



“The key challenge in this project is the completion time. We have to think of the fastest method to realise this building on time. From the other side, to change the image of a party, is also a challenge for us to create a new paradigm of this party’s building.”

- **Muhammad Egha, S.T**, Principal Architect of Delution

PROJECT DATA

Project Name: Golkar Jakarta Office
Location: Menteng Cikini, Jakarta Pusat, Indonesia
Client: DPD Golkar Jakarta
Architect Firm: Delution
Gross Floor Area: 3510 square metres
Completion: 2017
Photos: © Fernando Gomulya





Bharatpur Museum



Before



After

Bharatpur Museum is unique in its history as among the early public museums established in pre-independent India wherein the local ruler converted a royal palace into a museum for the public. The historic building of the Museum faced issues ranging from structural distress to its stone pavilions and roofing, to a loss of historic finishes, damage to painted frescoes in the *hammams*, deterioration of the historic landscape and period rooms as well as a crying need to improve design, display, inventory and conservation of historic objects, and zoning as well as museum services.

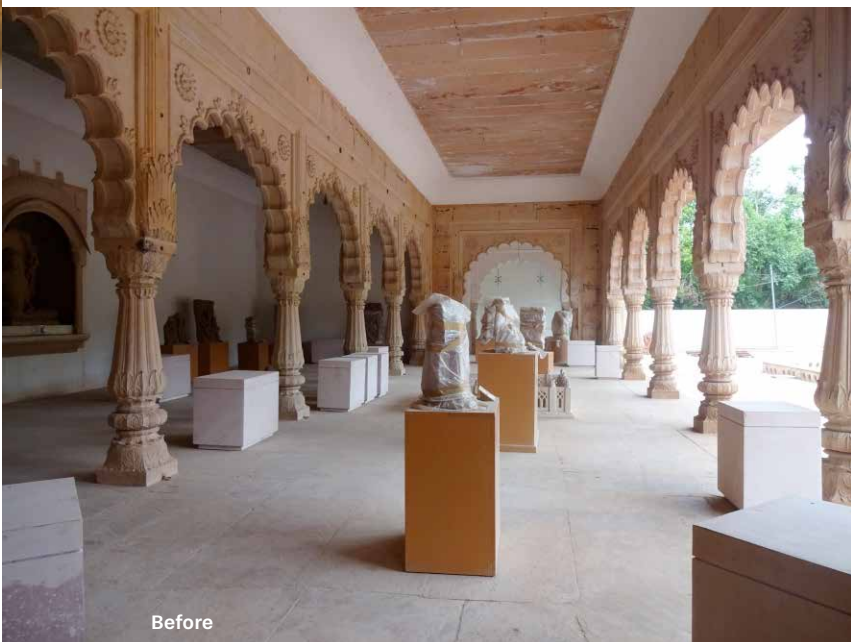
As Bharatpur is a remote town in Rajasthan in a largely rural setting and therefore did not get any attention towards cultural infrastructure for decades, in order to create an example for other such small towns to follow, it was selected as a pilot project to demonstrate that museums should not be focused only in large metro cities, but should also become vital educational and cultural centres for local populations in rural and semi rural areas. This was the vision of the Chief Minister of Rajasthan and public involvement was the basis for this change – thus even the system of design and conservation planning that was done within the government department for decades was changed and an architectural firm contributed free of charge, its time

and expertise to make this change happen in rural Rajasthan; with local students and staff pitching in to carry out voluntary initiatives at cleaning, repair and maintenance as part of *Shram Daan* or voluntary social service, the staff worked beyond their regular office hours to make the project happen and local craftsmen pitched in to restore the historic painted murals and artwork.

After the restoration – Bharatpur Museum has been called among the finest museums in Rajasthan and is certainly the benchmark to improve other small town and rural museums as cultural repositories through public engagement.

The restoration of the museum was a combined effort of the community, museum staff and the conservation team from Abha Narain Lambah Associates. This project would not have been possible without this mutual and collective effort of them all and the work of the local craftsmen.

Project goals included structural works of architectural elements (severely damaged roof pavilions and roofs), restoration of the historic *hammam* and its artwork, museum upgradation, interior restoration of period rooms and landscape restoration. The aim was to achieve a museum of world class standard deeply rooted in the vernacular and cultural landscape of Rajasthan.



Before



After



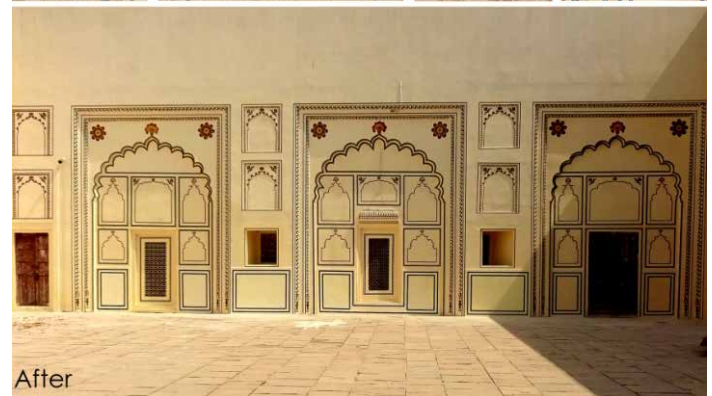
Before



Before



Restoration of the Original Arish Stencil and plaster works



After



After



“While we have worked on many museum projects in historic buildings, working on the Bharatpur Museum project has been truly special since the approach was not just to design sensitively in a 19th century palace

now functioning as a Museum, but also to set this project as a pilot project for smaller towns showcasing how design can be used to enhance visitor experience and allow them to appreciate their heritage more closely and effectively.”

– **Abha Narain Lambah**, Principal Architect, Abha Narain Lambah Associates



Before



After

Under the care of local craftsmen, and traditional techniques were adopted to offer substantial conservation benefits. The property is owned by Government of Rajasthan State, and this conservation project was adopted by the conservation team Abha Narain Lambah Associates as part of its social responsibility as a pilot project for Museum Restoration in semi rural regional setting which often does not get any financial assistance or public attention. The conservation team worked on this project free of cost on pro bono basis as a social responsibility project.

The objective of the project was to cohesively restore the museum complex as a prototype for other regional museums in the state of Rajasthan. The project was carried out in a orderly manner: documentation, preparation of detailed project report including indentifying structural issues, gallery display issues, narrative issues, lighting issues, museum circulation issues etc and site execution including use of specialized local craftsmen. Range of issues affected the visual & design integrity of the Museum. The project was phased out: Civil & Structural works, Museum inventories & Narrative preparation, spatial design & upgradation, lighting & other services & landscape restoration. Civil works comprised of stone cleaning, restoration of stone *chajjas* (weathershade), & reconstruction of *baradari* & *chattris* (pavilions). Authenticity of material & technique were followed with use of local craftsmen for all skilled labour works. Blocked fenestration & incongruous ad hoc brick walls were removed to reveal the original building. During landscape works, old fountains were found, which were restored & integrated within the design of the space. Museum staff volunteered to work on the landscape works which required unskilled efforts like cleaning of the premises, removal of debris, and non-indigenous plants.

Archival photographs were an important source of information regarding the original wall patterns, carpet designs & room settings along with a rich visual source on the furniture and

furnishings of various historic spaces. Period Rooms were recreated by careful selection of historic furniture pieces closely matching with the ones seen in archival photographs or historic settings. The palace also has an exquisite *Hammam*, which is among the finest of its genre, with intricate decorative stone flooring, *araish* plaster & *Mughal secco* – among the best surviving *Hammams* of its age was restored. In order to preserve the authenticity of the plaster, areas of render loss were filled in to create the original space divisions. After cleaning & scrapping of nearly 10 layers of paint from the interior walls, the original surface of the wall were revealed to be made of *araish* plaster. Traditional lime plaster, particularly where applied direct to masonry, depending on the high level of porosity to assist the free evaporation of moisture caused by dampness & condensation. Specialised local craftsmen and engineers were employed for *araish* plaster works, lime plaster and render works, painting, localised structural works and sandstone sculpture works. The project was dealt in a holistic manner keeping in mind the regional architecture and insertion of modern technology.

The project was completed in time frame of May 2017 – December 2017. To ensure that the museum does not remain completely inaccessible to the visitors, the museum works were also Phased in two main parts: 1) In the 1st Phase the interior upgradation and civil restoration works of Ground Floor were taken up, with the museum continuing to function on the 1st floor. 2) Once all the works on the Ground Floor were complete, the works of the 1st Floor were taken up with the Ground Floor opened to visitors. The scale of the project is 8,615 square metres and total cost of the project is INR 3.88 Crores (578281 USD).

The property is owned and administered by Rajasthan Government, who funded for the restoration and upgradation works.

PROJECT DATA

Project Name: Bharatpur Museum
Location: Bharatpur, Rajasthan, India
Client: Department of Archaeology and Museums, Government of Rajasthan
Architect Firm: Abha Narain Lambah Associates
Contractual Firm: M/S Rehmat Ali Contractors
Floor Area: 8,615 square metres
Completion: December 2017
Photos: © Abha Narain Lambah Associates

2018 UNESCO ASIA-PACIFIC AWARDS FOR CULTURAL HERITAGE CONSERVATION UNVEILS WINNERS

The renewal of the early 20th-century Shijo-cho Ofune-hoko Float Machiya has received the Award of Excellence in this year's UNESCO Asia-Pacific Awards for Cultural Heritage Conservation. 10 projects from five countries – Australia, China, India, Japan and Thailand – have been recognised by an international Jury of conservation experts in the 2018 Awards. The Jury met in August 2018 in Penang, Malaysia to review 41 entries from eight countries across the Asia-Pacific region.

The Jury praised the Award of Excellence winner, the Shijo-cho Ofune-hoko Float Machiya, for "celebrating Kyoto culture through the safeguarding of the city's endangered wooden townhouse typology as well as the iconic annual Gion Festival. The meticulously restored building today houses the Ofune-hoko float, itself resurrected after a 150-year hiatus to regain its place of pride in the annual ritual parade. The project sets a model for its seamless approach to safeguarding built heritage intertwined with intangible cultural heritage in a mutually enriching way."

Other Awardees include:

Award of Distinction

- **The LAMO Center**, Ladakh, India

Award of Merit

- **5 Martin Place**, Sydney, Australia
- **Aijing Zhuang**, Fujian, China
- **Commercial Bank of Honjo Warehouse**, Saitama, Japan

Honourable Mention

- **Hengdaohezi Town**, Heilongjiang, China
- **Rajabai Clock Tower & University of Mumbai Library Building**, Mumbai, India
- **Ruttonsee Muljee Jetha Fountain**, Mumbai, India

New Design in Heritage Contexts

- **Kaomai Estate 1955**, Chiang Mai, Thailand
- **The Harts Mill**, Port Adelaide, Australia

The UNESCO Asia-Pacific Awards for Cultural Heritage Conservation programme recognises the efforts of

private individuals and organizations that have successfully conserved structures and buildings of heritage value in the region. The Awards aim to encourage other property owners to undertake conservation projects within their communities, either independently or by seeking public-private partnerships. Awarded projects reflect a clear understanding and application of various criteria, such as the understanding of the place, technical achievement, and the project's social and policy impact.

"Ever since the Awards programme was established in 2000, we have witnessed major strides in cultural heritage conservation over the past twenty years," said Dr Duong Bich Hanh, Chair of the Jury and Chief of UNESCO Bangkok's Culture Unit. "This year's projects show the heightened level of public awareness, policy support and private sector investment in an ever-widening range of heritage typologies. It is notable how the 2018 Awards winners showcase the increasing recognition of industrial heritage in the Asia-Pacific region."

The upcoming year 2019 marks the 20th anniversary of the Awards, with a regional event planned in Penang, Malaysia, where the Awards programme was originally launched. It will provide a platform to reflect on the past two decades of the Awards and the larger realm of heritage in the Asia-Pacific region, as well as to engage in a strategic forward-looking dialogue on the role and contribution of cultural heritage more broadly. Past winners, Jury members, heritage conservation professionals, academics, and private and public partners will be invited. Interest individuals are requested to communicate with UNESCO Bangkok via contacts shared below.

The event will be organised in collaboration with Malaysia's urban regeneration organisation Think City. UNESCO Bangkok and Think City have signed a three-year partnership spanning 2018 to 2020 in order to promote outstanding practices in cultural heritage preservation in Asia and the Pacific.

Winners' Project Profile



Award of Excellence

Project name: Shijo-cho Ofune-hoko Float Machiya
Location: Kyoto, Japan

The renewal of this early 20th-century *machiya* celebrates Kyoto culture through the safeguarding of the city's endangered wooden townhouse typology as well as the iconic annual Gion Festival. The meticulously restored building today houses the Ofune-hoko float, itself resurrected after a 150-year hiatus to regain its place of pride in the annual ritual parade. Through careful documentation and a light-handed approach to conservation, the project has transformed a residence to serve a meaningful communal function in a manner that has enhanced the ethos of the historic building. Undertaken by master carpenters in collaboration with conservation experts, the artful conservation work showcases innovation within a traditional architectural context. The project sets a model for its seamless approach to safeguarding built heritage intertwined with intangible cultural heritage in a mutually enriching way.



Award of Distinction

Project name: The LAMO Center
Location: Ladakh, India

The recovery of an aristocratic house from a state of partial ruin establishes an important precedent for conserving the non-monumental urban fabric of Leh Old Town. Informed by detailed research and investigation, the systematic restoration project used salvaged and local building materials, and indigenous construction techniques while adroitly introducing modern amenities to assure its ongoing use. A dynamic programme of arts activities enlivens its space for the benefit of both local residents and visitors. Strategically located at the foot of the Leh palace, the restored structure contributes significantly to the continuity of the historic townscape dating back to the 17th century.

Photo: © UNESCO

Award of Merit

Project name: 5 Martin Place
Location: Sydney, Australia

The iconic Commonwealth Bank building has been revitalised as a premier commercial property while retaining its historic fabric and character. Anchoring Martin Place, the building effectively maintains its connection to the street and its urban context. The quality of the interior spaces and period detailing were carefully retained, notably with the use of a thoughtfully designed cantilever strategy to introduce a major new building addition. The project adds a new milestone to the evolving history of the property, reinvigorating it for the 21st century.



Photo: © UNESCO

Photo: © UNESCO

Project name: Aijing Zhuang
Location: Fujian, China

The conservation of Aijing Zhuang residential complex demonstrates a sensitive approach to sustaining a rural settlement as a living place in harmony with its natural setting. The rigorous seven-year conservation process was initiated by clan members with the collective support of scholars, local craftspeople and the local government. With a commendable sense of restraint, the project has safeguarded the authentic character of the vernacular housing, defensive structures and waterways that are emblematic of this site, providing a model for other historic villages across China.





Photo: © UNESCO

Project name: Commercial Bank of Honjo Warehouse

Location: Saitama, Japan

The restoration of the former warehouse of the Commercial Bank of Honjo has recovered a significant brick masonry landmark and opened it up for public use through seismic retrofitting and modernisation of building services. The project is to be praised for its systematic conservation methodology based on thorough research. In giving new life to a building related to the once prosperous silk business in the area, the project serves as a notable example for interpreting local industrial and commercial heritage.

Honourable Mention

Project name: Hengdaohezi Town

Location: Heilongjiang, China

The successful preservation of the 19th-century railway town of Hengdaozi in north China is notable for its holistic approach, encompassing the heritage buildings, infrastructure, and related public spaces. Demonstrating a sound understanding of both locality and function, the project reinstates and sustains the spirit of place of the historic urban industrial landscape. The conservation work was carried out in a restrained manner, respecting the historic patina and functional character of the buildings and their setting.

Photo: © UNESCO



Photo: © UNESCO



Project name: Rajabai Clock Tower & University of Mumbai Library Building

Location: Mumbai, India

The recent renewal of the University of Mumbai's Rajabai Clock Tower and Library opens up a new chapter for one of the city's significant neo-Gothic landmarks. A comprehensive programme of restoration arrested decay and stabilised the stone masonry, interior timber structure, and extensive decorative works. The project was well thought through and the quality of conservation reflects a competent hand, employing local craftsmanship and materials that sustain the authenticity of the historic fabric.



Photo: © UNESCO

Project name: Ruttonjee Jetha Fountain

Location: Mumbai, India

The restoration of the Ruttonjee Jetha Fountain has reinstated an Indo-Saracenic landmark in the heart of Mumbai. The project has revived both the functional and aesthetic qualities of the monument through careful water engineering, stone repair, and tasteful historically-accurate landscaping. Undertaken in partnership with the municipal authorities as part of a larger on-going programme of civic works, the conservation of the fountain contributes meaningfully to enhancing the public sphere of the historic district.



Photo: © UNESCO

Award for New Design in Heritage Contexts

Project name: Kaomai Estate 1955

Location: Chiang Mai, Thailand

Kaomai Estate 1955 is an inspired model for rescuing and repurposing an overlooked and disappearing industrial typology by combining a commitment to conservation with a contemporary design aesthetic. New architectural interventions in steel and glass provide a counterpoint to the historic built fabric that spans different eras, including wattle and daub, brick masonry, and concrete block. The reactivation of the abandoned tobacco processing barns adds a layer of meaning to the hotel complex, providing a nostalgic evocation of the local history and agrarian heritage associated with Chiang Mai's once thriving tobacco industry.

Project name: The Hart's Mill

Location: Port Adelaide, Australia

The remarkable transformation of the former flour-milling complex and wharf into a lively series of public spaces revitalizes a derelict post-industrial waterfront area for present-day use. The three interconnected interventions have rejuvenated both the buildings and the surrounding area through a successful urban place-making strategy, using contemporary art to reference historical function. Resulting from an extensive consultation and engagement programme, the development of trails, play areas and event spaces has created a major urban amenity for the city of Adelaide.



Photo: © UNESCO



The winners of URA Architectural Heritage Awards 2018 are...

The Urban Redevelopment Authority (URA) has conferred the 2018 Architectural Heritage Awards (AHA) on projects that demonstrated exceptional restoration and innovative work on heritage buildings.

The projects are:

- 9 Jurong Town Hall Road, Jurong Town Hall
- 28, 30, 32 Madras Street, The Great Madras
- 2 Mactaggart Road, Khong Guan building
- 1 Empress Place, Kwek Hong Png Wing and Riverfront Wing at the Asian Civilisations Museum
- 29, 31, 33 Mount Sophia, former Trinity Theological College Chapel, former Nan Hwa Girls' School, and Olson Building of former Methodist Girls' School, at the Sophia Hills Development

Now into its 24th year, the AHA recognises dedicated individuals and teams – building owners, architects, engineers, contractors and conservation specialists – who have gone above and beyond requirements in restoring heritage buildings. This year's AHA winners exemplify the highest standards in sensitive restoration and innovative design, which enhanced the buildings' longevity and value as heritage landmarks, and their relevance to the changing needs of our city.

Apart from well-restored heritage buildings, new buildings, including new extensions of heritage buildings, can also contribute positively to our heritage landscape. A new award category – Award for New Design in Heritage Contexts – has been introduced this year to recognise new buildings with outstanding design that complement and enrich their heritage setting, and to encourage best practices in this area.

2018 Award for Restoration

9 Jurong Town Hall Road, Jurong Town Hall

Owner: JTC | **Architect:** WSP Consultancy Pte Ltd & Forum Architects Pte Ltd |
Engineer: WSP Consultancy Pte Ltd | **Contractor:** Sunray Woodcraft Construction Pte Ltd

Symbol of a new nation's industrialisation

Gazetted in 2005 for conservation and elevated in 2015 as one of our modern monuments, the Jurong Town Hall has been a landmark since 1974. This recent restoration has not only rejuvenated the fabric and spaces of the building, its reuse as a hub for trade associations has recovered the spirit of the original design and purpose.

Bringing back the grandeur

This award-winning building by Architects Team 3 symbolises Singapore's successful industrialisation journey. Careful and thorough research into the building's architectural history cemented the project team's direction for the restoration and design works.

Adhering to the 3R principles, a sensitive approach was taken to restore key design and spatial features. Externally, the building's striking geometry was recovered when insensitive air-conditioning installations on the facade were removed and replaced with centralised systems.

The square geometry of the atrium plan was recovered while ad hoc partitions blocking the windows on the second storey were removed to restore the original light and airy character of the space. The grandeur of the main entrance was recovered through sensitive realignment and use of glass balustrades for the universal access ramp. At the main atrium, the void at the far edge, a key design feature that had been blocked up, has been reopened

to bring back light into the basement foyer. Original materials and finishes such as ceramic tiles and Volakas marble, have been carefully cleaned to reveal their beauty. The cantilevered concrete staircase from the basement to the first storey atrium was retained with its original design aesthetic.

Key interiors such as the original geometric ceiling of the theatrette were recreated after detailed research. In the auditorium, the ceiling design was kept intact while the new acoustic wall panels echo the original design intent.

Heightening the sense

The office spaces on the upper storeys were refurbished to recover the pleasant, naturally-lit spaces with views out to the surrounding. Spacious common open seating areas now promote interaction among the different groups of users. Sensitive and subtle design interventions such as 1970s-inspired fittings and finishes contributed to a sense of stylistic continuity. Lighting was also carefully installed to heighten appreciation of the building's original design.

Onward to a new era

With the building carefully refreshed, it demonstrates how modern buildings can remain both true to the spirit of their era and relevant into the future. At the same time, it is a faithful reminder of the bold, imaginative 'can-do' spirit of Singapore's 'Merdeka Generation'.

Text courtesy of URA

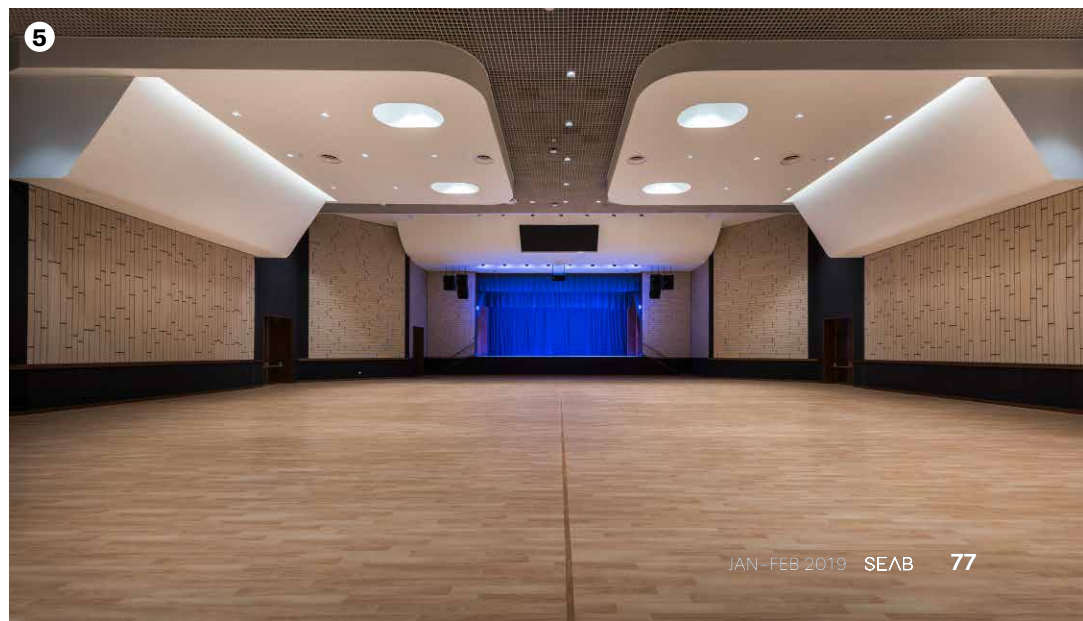
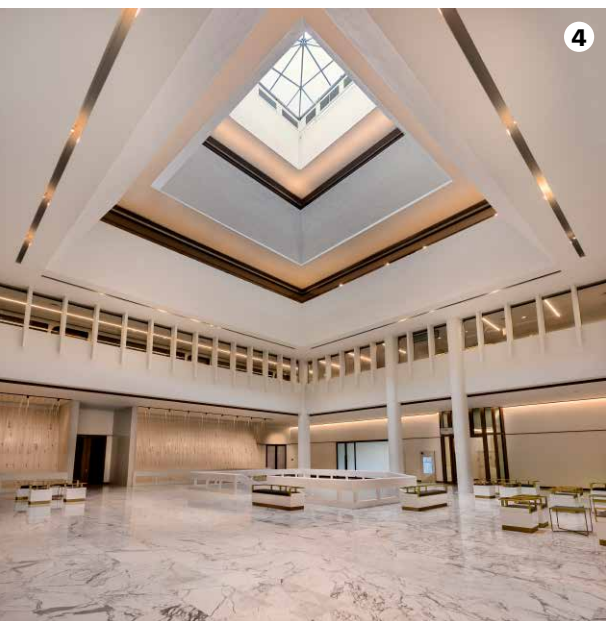
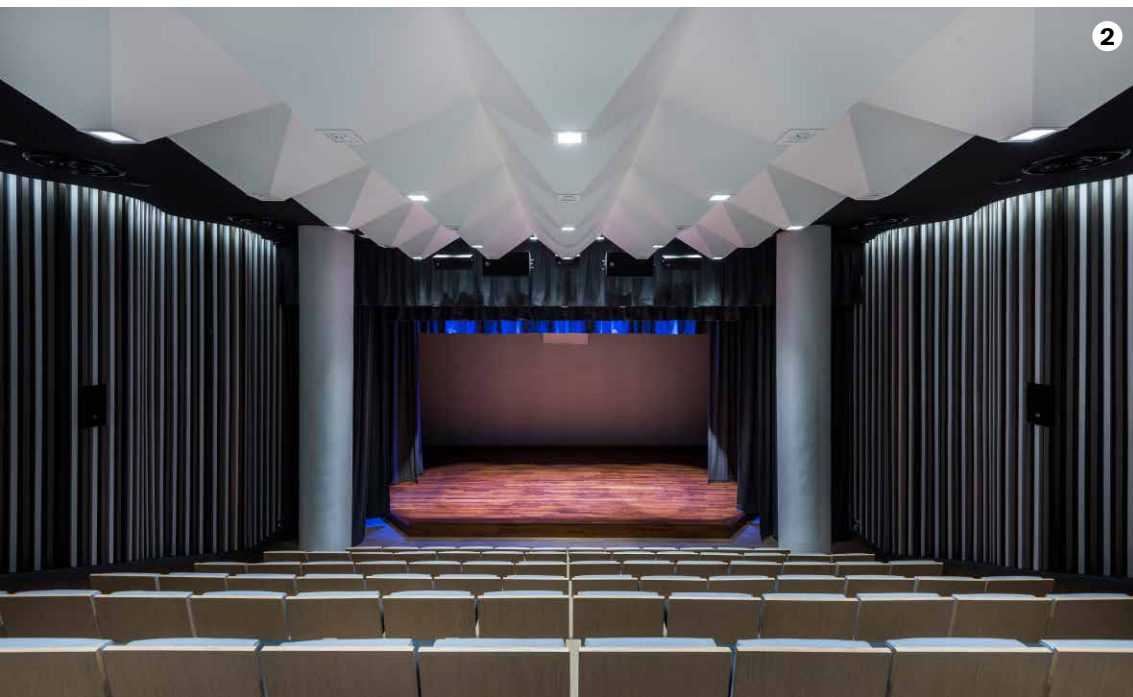
Photos on the right:

- 1 A key landmark of Jurong. Photo: © Edward Hendricks, courtesy of Forum Architects Ptd Ltd
- 2 Theatrette with recreated ceiling. Photo: © Edward Hendricks, courtesy of Forum Architects Pte Ltd
- 3 The building exterior has been sensitively refurbished. Photo: © Urban Redevelopment Authority
- 4 Spatial qualities of the atrium have been restored. Photo: © Edward Hendricks, courtesy of Forum Architects Pte Ltd
- 5 The original look of the auditorium has been retained. Photo: © Edward Hendricks, courtesy of Forum Architects Pte Ltd



"My challenge was in restoring a modern monument that can be presented as bright, new and seamlessly adapted for its new use, but resonates with echoes of the past."

- **Tan Kok Hiang**, Director, Forum Architects Pte Ltd



2018 Award for Restoration

28, 30, 32 Madras Street, The Great Madras

Owner: Mini Environment Services Pte Ltd | **Architect:** FARM Architects Pte Ltd |
Engineer: SMS Consulting Engineers Pte Ltd | **Contractor:** Dreambuild Construction Pte Ltd

Charming revival

This three-storey Art Deco-style former Singapore Improvement Trust apartment building built in 1940 has undergone a second transformation into a charming boutique hotel. A new landmark has been established with renewed verve and purpose, bringing the romance of travel into a historic neighbourhood.

Peeling back the years

The success of the revival is anchored on understanding and leveraging the inherent qualities of the building, as well as on capturing the spirit of the times through today's lenses. Much of the original structure was retained with natural ventilation and light reintroduced to the interiors.

For the original 1940 facade, all external finishes were cleaned and repaired, such as the often overlooked fair-faced brickwork of the balconies, and the Shanghai-plaster column bases. To restore the many signature but corroded slender mild-steel framed windows, a specialist contractor was engaged to repair them on site. A pastel period paint scheme was also chosen for the façade, and collectively, this has kept the overall Art Deco look intact.

A breath of fresh air

An oasis was cleverly inserted within the rear courtyard, by creatively cutting out a circular

opening in the party-wall to create a link between the new pool and the sun-deck. The sense of the tropics has been enhanced by reinstating the naturally lit and ventilated common corridors leading to the guest rooms. The judicious decision to retain the original rear spiral staircase has created a spatial and visual link between the floors, bringing air and light into the rear of the lobby.

Where previously the lobby was separated from the street, the new design has boldly done away with this spatial division. Doors that can be fully pulled aside, a barber shop and café that are open to the public have created a seamless intermingling between hotel and street.

Extending the charms

Clever branding has also been incorporated as part of the overall renovations. Customised wallpaper showing selected aspects of Singapore history and daily life, quirky slogans and decorations throughout the interiors add to the unique ambience.

A true and gentle labour of love, the project has revealed the character and added charm to this property, revitalising the site to extend its longevity. The Great Madras is where both the traveller and the local can now encounter the culture and history of the historic Serangoon neighbourhood, and take away new memories for the future.

Text courtesy of URA

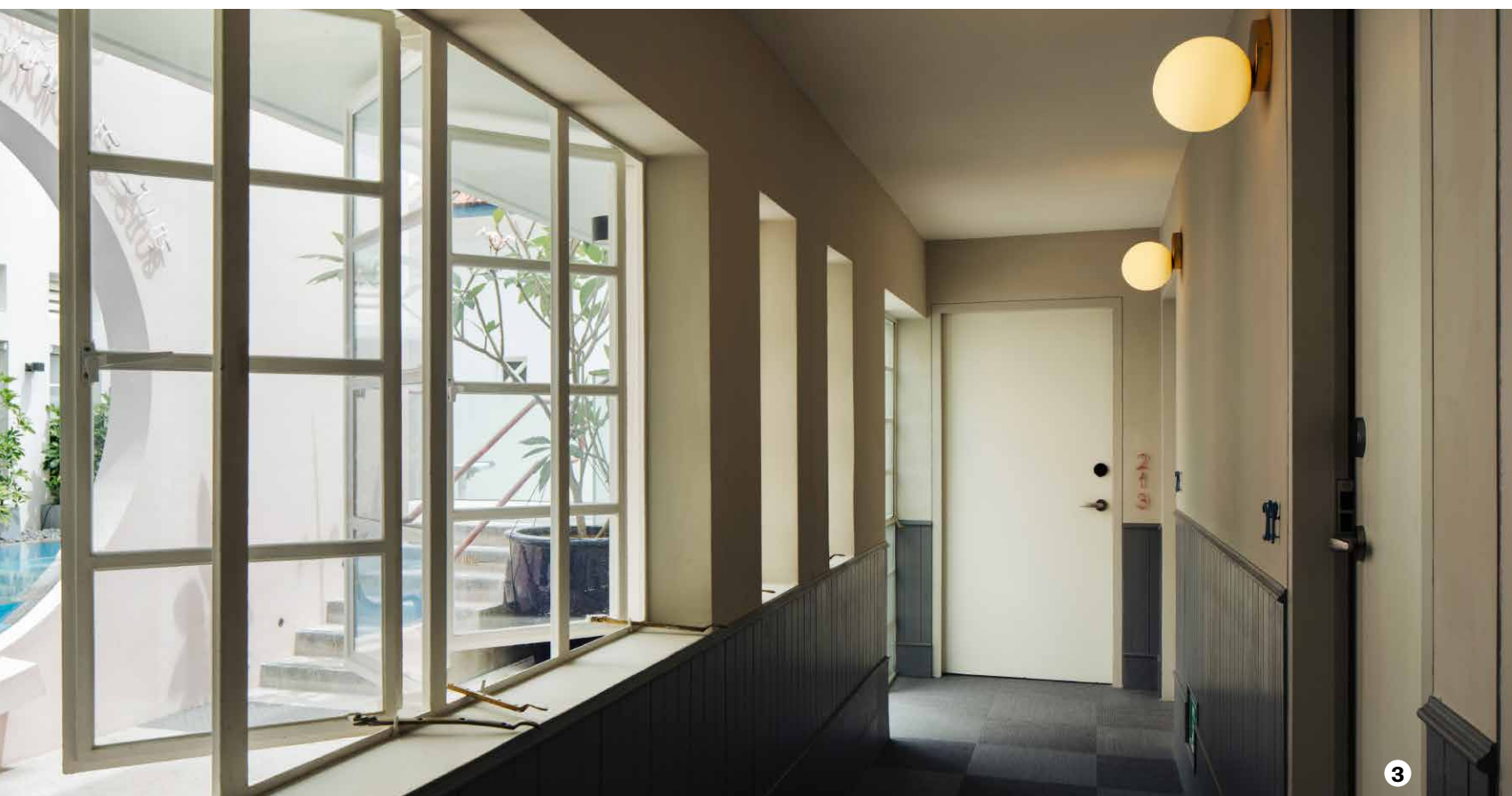
Photos on the right:

- 1 Neon lights accentuate the Art Deco branding. Photo: © Urban Redevelopment Authority
- 2 Former Singapore Improvement Trust flats in the Little India Historic District. Photo: © StudioPeriphery, courtesy of FARM Architects Pte Ltd
- 3 New mild steel windows along airy corridors. Photo: © StudioPeriphery, courtesy of FARM Architects Pte Ltd
- 4 A swimming pool has been creatively inserted. Photo: © StudioPeriphery, courtesy of FARM Architects Pte Ltd
- 5 Barber in the lobby. Photo: © Urban Redevelopment Authority



"When we saw the handsome art deco building and the location, we knew we had an opportunity to create something rather special. It got us feeling all romantic about hotels and travel. Little India is an extremely exciting and vibrant bit of Singapore, arguably its most unfettered and authentic. The challenge was to create a contemporary travel experience whilst retaining the charm of the location and the architecture. We felt it was unique chance in the clean and modern city to make something a little bit more characterful. We wanted to create Singapore's coolest little hotel."

- **Peter Sim**, Director, FARM Architects Pte Ltd



2018 Award for Restoration and Innovation

2 Mactaggart Road, Khong Guan Building

Owner: Khong Guan Limited | **Executive QP Architect:** Lua Architects Associates Pte Ltd | **Design Architect:** META Architecture | **Engineer:** Prostruct Consulting Pte Ltd | **Contractor:** Boon Tian Contractor Pte Ltd

Stellar Landmark

Carefully restored and expanded with the insertion of a new eight-storey tower, this distinctive 1950s building is ready to assume an even more prominent role as a symbol of local entrepreneurship as well as a landmark in the light industrial neighbourhood.

Nostalgic revival

The original owners voluntarily kept more of their flagship building than was required. Their personal and corporate memories and recollections also enriched the research and design process. This resulted in an informed decision to keep the 1950s building as the core of the expanded development by locating within it, the key entry, circulation, corporate and public spaces.

Reminders of the past have been carefully retained and integrated as part of the experience of the site. At the side facade, the patinated old warehouse door and side gate has been kept and is still in use. Detective work into the missing 'star' logo at the main building gate guided its restoration as a distinctive three-dimensional relief and the original colourful period mosaics were retained. Wired glass and window mechanisms typically used in the 1950s, were specially sourced to recover the period aesthetics of the building. Extra effort was put in to analyse the colour pigment of the old paint layers so that the building could

be painted with the original facade colours to create a more complete period atmosphere.

Extending the future

The design of the new building was inspired by the unique triangular geometry of the original building. Double volume spaces and sky terraces were carefully combined in the extension to create a sensitive co-existence between the old and new. The decision to have the headquarters office occupy the top storey within the conserved building which is then linked via an internal staircase to the fourth storey of the new extension, has meaningfully connected the past to the future.

Storyboards were installed to tell the story behind a familiar name that has long been a favourite with generations of Singaporeans. The planned use of part of the first storey as a canteen not only serves as an amenity to the nearby workers, it also creates the potential for meaningful everyday engagement by the community with a heritage site.

Reviving a community icon

The care taken to marry the rich history of the company with careful restoration and striking expansion has pioneered the way for how a future can be found for our pioneering industrial heritage. It also demonstrates that heritage integrated with innovation can strengthen and grow a Singapore brand.

Text courtesy of URA

Photos on the right:

- 1 Iconic apex of the Khong Guan Building. Photo: © Darren Soh, courtesy of META Architecture
- 2 Original side gate of the building has been retained. Photo: © Urban Redevelopment Authority
- 3 Main doorway with 1950s mosaic tiles and metal-grille gate have been restored. Photo: © Darren Soh, courtesy of META Architecture
- 4 First storey window has been retained. Photo: © Urban Redevelopment Authority



"The challenge was to contemplate its constraints: the shape of the site, the locality, meeting the requirements of the authorities while considering complexity of construction, alongside other factors. Turning limitations into inspiration, we made the project stand out from its surroundings."

– **Mr Lua Kok Leong**,
Principal, Lua Architects Pte Ltd (Executive QP Architect)



"For the architectural design of the Khong Guan Building at 2 MacTaggart Road, the key challenge we set ourselves was to remake the conserved building and gazetted features into significant spaces and delightful heritage artefacts that are relevant not just to the contemporary but as storied vessels for future legacy. The rest of the project journey was undertaken with this ultimate ambition in mind."

– **Adrian Lai Wen-Yang**, Principal, META ARCHITECTURE (Design Architect)



2018 Award for New Design in Heritage Contexts

1 Empress Place, Kwek Hong Png Wing and Riverfront Wing, at the Asian Civilisations Museum

Owner: National Heritage Board | **Architect:** GreenhilLi Pte Ltd | **Engineer:** Arup Singapore Pte Ltd (Kwek Hong Png Wing) & Leng Consultants (Riverfront Wing) | **Contractor:** Shin Khai Construction Pte Ltd (Kwek Hong Png Wing) & Sunray Woodcraft Construction Pte Ltd (Riverfront Wing)

Inspired interventions

A stately monument built in 1867 in the heart of the Empress Place precinct, the Asian Civilisations Museum is well established as an important institution, a popular venue for cultural events and a prime space for civic activities. The addition of two new wings has enhanced the museum's cultural role, affirming its eminence as an institution that both honours the past and celebrates the future.

Masterful balancing

To accommodate the growing needs of the museum, the new Riverfront and Kwek Hong Png Wings mark the first time that purpose-built gallery spaces in a contemporary language have been commissioned in a historical setting. Detailed research into the existing building complex history facilitated the notable expansions which replaced a recent structure in the service yard and optimised the space in a nondescript staff-carpark respectively.

A light touch

For the Kwek Hong Png Wing, its design as an elevated, visually simple and minimalist three-dimensional box, detached from the surrounding neo-Palladian façades was a master-stroke. This has introduced new ways for the visitor to engage with the monument. Looking from within, new vistas have been created to the surrounding Empress Place. Carefully designed delicate touches abound, together with the strategy of concealing M&E works within the new structure ensures that the historical aspects of the building would be minimally affected. The use of connecting lightweight bridges, meticulously detailed and executed, preserves the integrity of the older wing.

The Riverfront Wing takes a different approach, with a low elongated minimalist form that underlines the historic profile of the Neo-Palladian building. The entrance has a frame of slanted solid planes leading to a naturally-lit and column-free exhibition space. Specially designed circular skylights provide diffused daylighting for the exhibits in the day and interesting floor lighting for the roof terrace at night. The expanded roof terrace also allows for both views to the Boat Quay skyline and an up-close encounter with the historic facade. At all sides, the encounter between the new and the old is delicately handled.

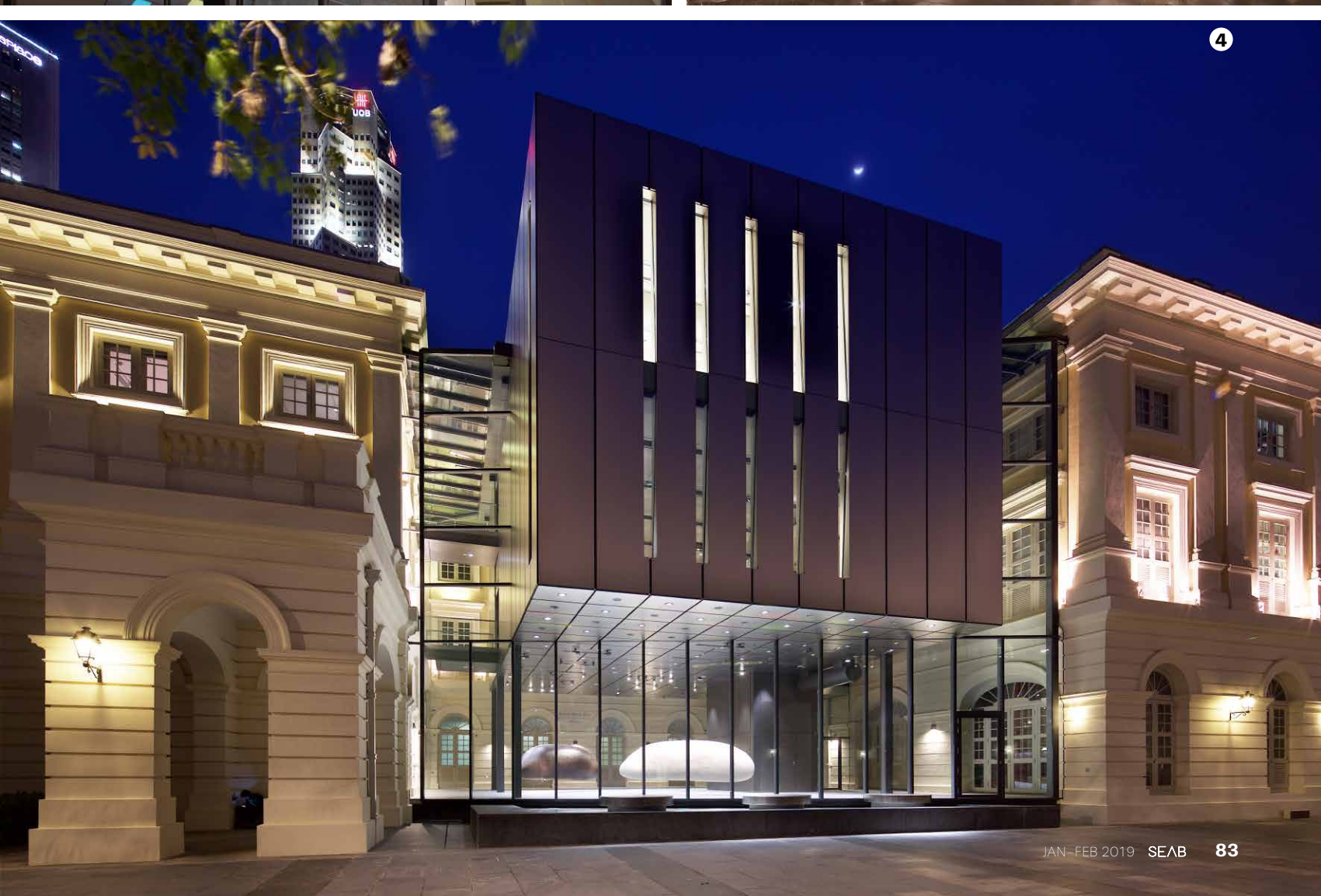
Timeless model

The choice of titanium as external cladding for its gentle interaction with sunlight, has created an aura of timelessness, contributing to the grandeur of the monument. The sensitive and comprehensive treatment of the forms, finishes and details has successfully created additions that extended the relevance of the institution into the future. The outcome serves as a valuable reference for design processes in other heritage sites.

Text courtesy of URA

Photos on the right:

- 1 New vistas with the historic setting have been created (Kwek Hong Png Wing). Photo: © Nigel Greenhill, courtesy of GreenhilLi Pte Ltd
- 2 Skylight allows natural light into the new exhibition space (Riverfront Wing). Photo: © Nigel Greenhill, courtesy of GreenhilLi Pte Ltd
- 3 Riverfront Wing. Photo: © Nigel Greenhill, courtesy of GreenhilLi Pte Ltd
- 4 Kwek Hong Png Wing. Photo: © Nigel Greenhill, courtesy of GreenhilLi Pte Ltd



2018 Special Mention

29, 31, 33 Mount Sophia in Sophia Hills Development

Owner: Hoi Hup Sunway Mount Sophia Pte Ltd | **Architect:** Consortium 168 Architects Pte Ltd |
Engineer: BC Koh & Partners LLP | **Contractor:** Straits Construction Singapore Pte Ltd |
Conservation Specialist: Studio Lapis

This project consists of three conserved buildings gazetted in 2011 – the Former Trinity Theological College Chapel (built in 1968), the Former Nan Hwa Girls' High School (built in 1939) and the Olson Building of Former Methodist Girls' School (built in 1928). The site was sold in 2013 under the Government Land Sales Programme for a residential condominium development (Sophia Hills Development).

Apartments were housed in new residential blocks while the conserved buildings were put to complementary uses – i.e. restaurant, kindergarten and clubhouse respectively. The careful and detailed restoration of the three buildings followed the "3R" principles and was guided by a Conservation Specialist who conducted extensive research. Features such as roof tiles, mild steel windows and ironmongery were salvaged for reuse in the development.

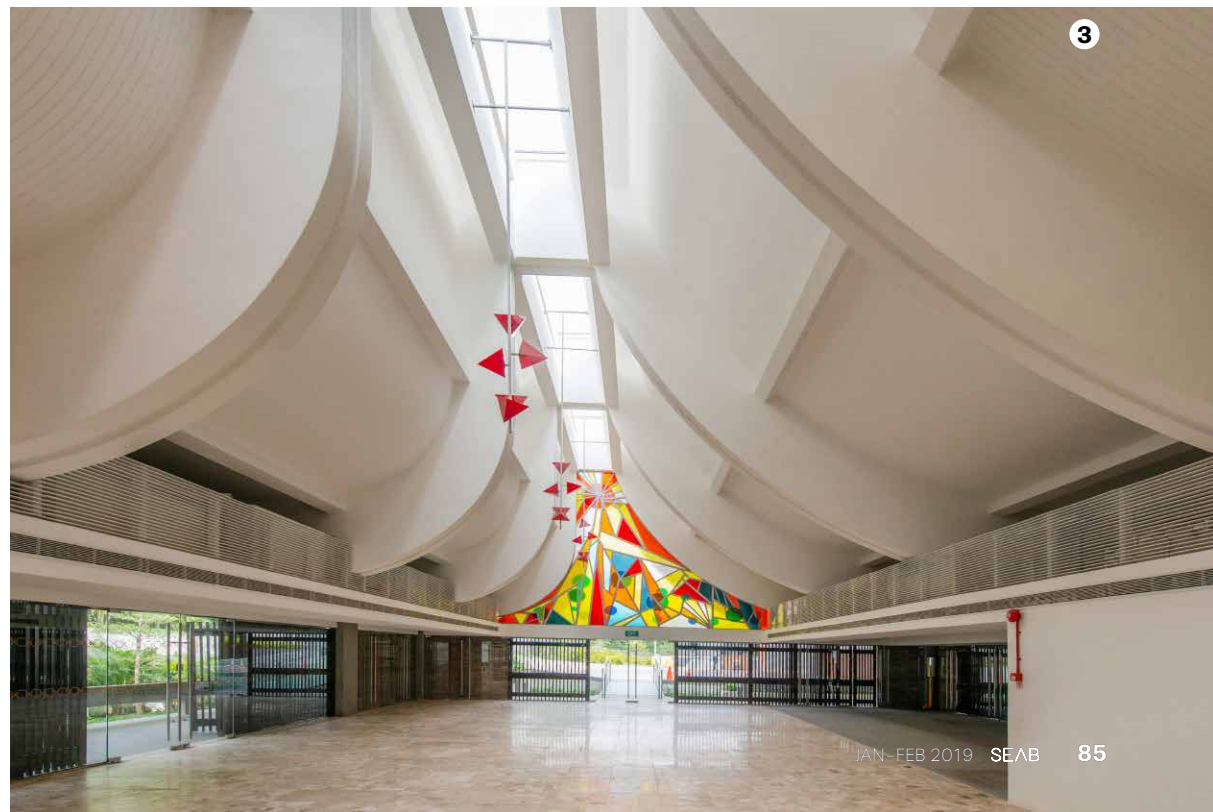
The team was also active in engaging and welcoming communities back to celebrate their heritage at the respective conserved building. Heritage markers are installed around the development to educate the wider public.

Text courtesy of URA

Photos below & on the right:

- 1 Olson Building of Former Methodist Girls' School. Photo: © Tiptoe Images, courtesy of Studio Lapis Conservation Pte Ltd
- 2 The Former Nan Hwa Girls' High School. Photo: © XTREME Media Pte Ltd, courtesy of Hoi Hup Sunway Mount Sophia Pte Ltd
- 3 The Former Trinity Theological College Chapel. Photo: © XTREME Media Pte Ltd, courtesy of Hoi Hup Sunway Mount Sophia Pte Ltd





“No one person or entity could change a company’s culture and practices alone; engagement, partnership and collaborations are key to successful transformation of how a business is run.”

– An Interview with Ms. Esther An, Chief Sustainability Officer at City Developments Limited



Ms Esther An, CDL Chief Sustainability Officer. Photo: © CDL

The United Nations Global Compact (UNGC) has conferred Ms. Esther An, Chief Sustainability Officer at City Developments Limited (CDL),

with the honour of being one of the 2018 UN Global Compact Sustainability Development Goals (SDG) Pioneers. In this interview, Esther tells us what this honour means to her and how she plans to make the overall business more sustainable.

SEAB: Congratulations for receiving the honour of being one of the 2018 UN Global Compact Sustainability Development Goals (SDG) Pioneers. You are also the first individual from Singapore and one of the first two Southeast Asian women to receive this recognition. What did you feel when you heard that you have been honoured?

ESTHER: I was pleasantly surprised and humbled as the competition was stiff with over 150 nominations from over 20 countries. What I am very pleased about is that a small nation like Singapore has not been overlooked in our efforts to contribute to sustainable development and green infrastructure. The award by UN Global Compact is an affirmation of our unwavering commitment and efforts to sustainability and green buildings over the past two decades.

I am very encouraged by this recognition and am truly grateful to the board and management of my employer City Developments Limited (CDL) for supporting me to innovate and pioneer Environmental, Social and Governance (ESG) strategies and initiatives that had not been tested at a time that climate change and sustainability were not quite the buzz words. I am sharing this honour with my late mentor and CDL's former Deputy Chairman Mr Kwek Leng Joo, a visionary CSR leader in the 1990s. I am also thankful to all partners and colleagues who have supported my wild ideas and initiatives in one way or another. This accolade is a strong encouragement for the CDL management in particular our Sustainability team to continue our efforts to do good and do well at the same time.

SEAB: You have been named the UN Global Compact SDG Pioneer for Green Infrastructure and a Low-Carbon Economy. Can you briefly share with us your role and responsibilities as a SDG Pioneer? How did your career progress to the role that you are now holding at CDL?

ESTHER: I joined the company in 1995 with the main task to set up a public relations portfolio to enhance CDL's branding and image. Since then, I have the privilege to be actively involved in formulating CDL's corporate ethos of 'Conserving as we Construct' and the strategy to achieve it at different levels, engaging both internal and external stakeholders.

Committed to this ethos, building green and managing our buildings with priority given to resource efficiency towards low carbon operations is fundamental.

No one person or entity could change a company's culture and practices alone; engagement, partnership and collaborations are key to successful transformation of how a business is run. As a company's reputation, branding and goodwill are built on good corporate governance, risk mitigation, sound ESG performances and product responsibility, it was a natural progression for me to grow from a PR practitioner to a CSR and then Sustainability professional. With greater concern about the threats of climate change and the global paradigm shift to a low carbon economy, my portfolio has grown by leaps and bounds over the past decade particularly after the Paris Agreement and launch of the UN Sustainable Development Goals (SDG). CDL's early adoption of green buildings and CSR integration has enabled me to expand CDL's strategy and initiatives to put greater focus on climate actions, low carbon strategy, partnership and disclosure.

SEAB: What has been your greatest professional achievement to date, and why?

ESTHER: I take pride in spearheading a few exciting national level initiatives including the zero-energy CDL Green Gallery @ Singapore Botanic Gardens Heritage Museum; My Tree House, world's first green library for kids; and a few key accolades received over the years. To date, I would say that the zero-energy Singapore Sustainability Academy (SSA) is my pride and joy.

Opened in June 2017, the green mark platinum SSA has achieved the vision of contributing to a cleaner, greener and more sustainable future via capacity building, knowledge sharing, partnership and networking. Initiated by CDL, we designed and built the Academy in partnership with Sustainable Energy Association of Singapore (SEAS), an NGO which has been building capacity for energy professionals in the region in the past decade. The Academy is supported by six government agencies and 12 founding industry partners. The collaboration and NGO network have grown tremendously within a year, including international NGOs which have come on board to support the Academy's vision like the UN Global Compact (UNGC) and UNDP which are key agencies to promote the SDGs.

In its first 15 months of operations, the SSA organised or supported as venue host for over 100 SDG-focused thought leadership events and 60 training courses by SEAS. The outreach of this humble space with a dedicated vision has been amazing – it has hosted international leaders in sustainability and reporting like Ms Lise Kingo, UNGC's CEO and Executive Director; HE Mr Björn Lyrvall, Swedish Ambassador for Arctic Affairs; Ms Katrina Gärdfeldt, Director-General of Swedish Polar Research Secretariat; United Nations Environment Programme (UNEP) Regional Chief Isabelle Louis and Global Reporting Initiative (GRI) CEO Mr Tim Mohin. Within Singapore, Minister for the Environment and Water Resources Mr Masagos Zulkifli and Senior Minister of State, Ministry of the Environment and Water Resources & Ministry of Health, Dr Amy Khor have graced a few environmental events at SSA.

From a personal perspective, I would say that this SDG Pioneer award is perhaps the greatest achievement which recognises my personal commitment and efforts in sustainable development. I am truly blessed with a rather high level of imagination, energy and passion for innovation and driving change. These are probably the drivers behind my humble achievements.

SEAB: Sustainability in the built environment means different things to different people. How would you describe it?

ESTHER: Sustainability in the built environment is a key pillar to building a greener, cleaner and better world for future generations. Globally, buildings account for 40 percent of energy consumption and 30 percent of greenhouse gas emissions. At the same time, they hold the most promise in potential for energy savings and in mitigating the effects of climate change. For many cities and countries, building green is a strategic initiative as there are many benefits such as resource and cost efficiency, healthier and more productive work places for users, as well as enhanced quality control.

financial performance. Governments and the international investment community are increasingly holding corporations accountable for their carbon emissions. Furthermore, there has been greater investor demand than ever for ESG data which influences investment decisions. Sustainability reporting has also become mandatory for listed companies in many Asian markets, including Singapore, Malaysia, Thailand, Indonesia and Taiwan. Businesses can no longer ignore the impact of climate change risks on their bottom line. In Singapore, businesses that do not adopt sustainable practices may face reputational or operational risks that will impact their licence to operate, and be exposed to higher operating costs, with the water price increases and carbon tax.

In 2017, building on our firm foundation in ESG management, we strategically established the CDL Future Value 2030 sustainability blueprint. It forms an integral part of our integrated sustainability strategy which continues to harness our six capitals – financial, organisational, natural, manufactured, human as well as social and relationship – to build enhanced value for our business, stakeholders, community and the environment.

“This accolade is a strong encouragement for the CDL management in particular our Sustainability team to continue our efforts to do good and do well at the same time.” – Esther An

Looking ahead, as the global paradigm shift to sustainable development accelerates with the landmark Paris Agreement and the UN SDGs, green buildings could be the lynchpin of many countries' pledge to reduce greenhouse gas emissions. The global call for net zero buildings is gaining traction and stands to create strong impact on conserving the environment. The World Green Building Council has set a target for all new buildings in the world to be net zero by 2030. Only with collective efforts is there hope to achieve the Paris Agreement target. The built environment and all users of buildings are in the position to help save our planet.

SEAB: As the Chief Sustainability Officer of CDL, what steps have you taken to integrate sustainability in the business?

ESTHER: For more than two decades, sustainability has been integrated into CDL's business and operations. Founded on the ethos of 'Conserving as we Construct', CDL has been committed to future-proofing our business through a three-pronged strategy as a developer, an asset owner and a corporate citizen. We develop green buildings, manage them in an energy- and resource-efficient way, and engage stakeholders on sustainable development. Our unique ESG integration model has created tangible and long-lasting value for our brand, business operations, stakeholders, customers, investors and the community.

In recent years, there has been increasing recognition of the strategic connection between sustainability and

A forward-looking action plan, the blueprint sets out long-term ESG goals and targets towards 2030 – a milestone year for global sustainable development, climate agreement and green building movement. CDL Future Value 2030 will enable us to deliver on three strategic goals – building sustainable cities and communities; reducing environmental impact; and ensuring a fair, safe and inclusive workplace. These goals in turn entail clearly defined targets to address ESG issues which are material to CDL's business and stakeholders, while contributing towards a sustainable future.

SEAB: Besides CDL, you have also played an important role in advancing Singapore's sustainability initiatives and sustainable development in the region as well as conceptualising the zero-energy Singapore Sustainability Academy (SSA). Can you tell us more about it and the impact it has created?

ESTHER: Collaborative and innovative partnerships are key to achieving sustainable development. No single entity alone can make our world more sustainable. Instead, the collective efforts of all stakeholders will create a greater impact.

Developed by CDL, the SSA has proven a most timely platform for advocacy, networking and collaboration among the People, Public and Private (3P) sectors to support the UN SDGs and global climate actions. With 2018 as Singapore's Year of Climate Action, the government also underscored the need for enhanced efforts and partnerships

“What I am very pleased about is that a small nation like Singapore has not been overlooked in our efforts to contribute to sustainable development and green infrastructure.” – Esther An

At South Beach in Singapore, CDL's joint venture mixed-use development, photovoltaic panels were installed on the top surface of lower modules at the tower roof, and the wavy canopy at the ground level, covering a total area of approximately 1,800 square metres with an energy yield of 219,000 kWh annually. Photo: © CDL



"From a personal perspective, I would say that this SDG Pioneer award is perhaps the greatest achievement which recognises my personal commitment and efforts in sustainable development." – Esther An



A first-of-its-kind sustainable building in Singapore developed by CDL, the Singapore Sustainability Academy at City Square Mall is built using Cross Laminated Timber and Glued Laminated Timber verified to have come from responsible sources. The zero-energy building features solar technology with about 3,200 square feet of photovoltaic panels. Photo: © CDL and © VMW

across all sectors to meet the nation's climate goals. Since opening in June 2017, the not-for-profit space dedicated to sustainability training and outreach has been an important catalyst in bringing together the 3P sectors to advance sustainable development in Singapore and the region. In its first 15 months of operations, the SSA organised or supported as venue host for over 100 SDG-focused thought leadership events and 60 training courses by SEAS, engaging over 7,000 representatives from the 3P sectors. The SSA will continue to catalyse enhanced engagement between regulators, businesses, NGOs and the community at large.

Notable green building projects by CDL

CDL has spearheaded numerous groundbreaking innovations in green properties. As of December 2017, CDL has a portfolio of 96 Green Mark certified developments and office interiors awarded by the Building and Construction Authority (BCA), the highest amongst private sector real estate companies in Singapore.

To name a few, CDL launched Singapore's first Eco-Condominium, Savannah CondoPark in 2002; the first CarbonNeutral® development in Asia Pacific and Singapore, 11 Tampines Concourse, in 2009; Singapore's first eco-mall, City Square Mall, in 2009; and Tree House condominium, which achieved a Guinness World Record for the largest vertical garden in 2014.

In 2014, CDL became the first developer in Asia to adopt the innovative Prefabricated Prefinished Volumetric Construction (PPVC) method for The Brownstone Executive Condominium in Sembawang – likely the world's largest and first-of-its-kind application of concrete PPVC for a large-scale private residential development. The game-changing technology boosted productivity, enabled stringent quality control as modules were fabricated in controlled factory conditions, and created a safer and cleaner worksite.

In 2017, the Singapore Sustainability Academy developed by CDL was opened. Located at the Skypark of CDL's City Square Mall, the zero-energy building features solar technology with about 3,200 square feet of photovoltaic panels which generate an annual energy yield of over 60,000 kilowatt hours (kWh), more than the Academy's estimated annual energy consumption.

At CDL's joint-venture mixed-use development, South Beach (fully completed in 2018), photovoltaic panels were also installed, covering a total area of approximately 1,800 square metres with an energy yield of 219,000 kWh annually. In addition, South Beach's most striking feature – an undulating microclimatic canopy that extends throughout the development – is designed to draw in natural light and acts as an environmental shield, providing shade against the sun and shelter from rain. Furthermore, CDL has galvanised like-minded partners to create green community spaces. With the support of its partners, CDL created My Tree House – World's 1st Green Library for Kids in Singapore's Central Public Library and Singapore's first zero-energy green gallery, the CDL Green Gallery @ Singapore Botanic Gardens Heritage Museum in 2013.

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Tridium's Niagara Framework

Tridium's Niagara Framework is an open IoT software platform that enables manufacturers to transform operations to Smart Manufacturing, or the Industrial IoT. The Niagara Framework enables manufacturers to connect and control their factory-based devices while normalising, visualising, and analysing data in real time across the heterogeneous factory environment. It provides manufacturers with a flexible and customisable approach to connecting factory-floor assets to create visibility into operations and to drive business KPIs such as increased throughput, higher yield, and equipment uptime.

The Niagara Framework includes the following key features:

- **Connectivity.** The Niagara Framework enables connectivity to a variety of disparate systems, sensors, and devices, regardless of protocol or manufacturer. Niagara includes a templating feature that enables tags to be applied to devices quickly; it also allows applications to be prebuilt against a set of standardized templates. The templates can be reused for increased efficiency.
- **Extensibility.** As an open platform, Niagara provides the ability for developers to build on top of its framework to create new applications or to feed data into existing systems like ERP or cloud analytics to enable functional leaders to take further action.
- **Distribution.** Niagara is sold by a global community of systems integrators, OEMs, distributors, and resellers, creating a broad ecosystem of partners that manufacturers can have confidence will support current and future Smart Manufacturing innovations.

In addition to the above key features of Niagara, the platform also includes the following capabilities and extensions:

- **Modern user interface.** The user interface for Niagara utilises HTML5 to provide a variety of features to facilitate greater productivity for operators and managers.
- **Developer tools.** For developers within the Niagara environment, there is comprehensive documentation, an open API library, Maven, Gradle, and semantic data modeling via tags to support development.
- **Robust security.** Niagara includes a multi-faceted security approach that starts with user authentication that requires strong credentials. It uses role-based access control, and can



be integrated with existing enterprise identity and access management systems. Both data in motion and sensitive data at rest are encrypted.

- **Niagara Analytics.** Niagara Analytics 2.0 is a value-added offering of the Niagara platform that includes pre-existing data models for users to quickly build data views. It comes equipped with predefined algorithms that can be customised to a specific project. The dashboard feature allows users to visually display key metrics, alerts, and outputs.

Challenges

The process of integrating IT and OT through a Smart Manufacturing initiative is complex and can be very challenging. Manufacturers are in the process of instrumenting existing factory floor equipment and substantially improving connectivity to bring pieces together, transitioning from segregated to coordinated and eventually fully integrated. Among the challenges are the need to integrate existing IT and OT systems into the IoT platform, and to expose the data that is being collected and normalized to the necessary applications. Another challenge for these initiatives is the potential that an IoT platform creates – suddenly there is the ability for collaboration among previously separate business functions. To make sense of this unprecedented volume, velocity, and variety of data coming from factory equipment in real time, manufacturers will need to leverage advanced analytics on top of the IoT platform. Otherwise, the Smart Manufacturing initiatives will fail to deliver the desired results.

The competitive market for industrial IoT platforms is extremely crowded, and there is confusion as to what features comprise a comprehensive IoT platform for IIoT. Therefore, it is important for IoT platform providers such as Tridium to educate and articulate the capabilities of the platform, as well as reference customers in each targeted vertical to help manufacturers understand how the IoT platform works in a live environment. This is where an extended ecosystem such as Tridium's comes into play, because it can help demonstrate the value of an IoT platform across products, devices, and service providers.

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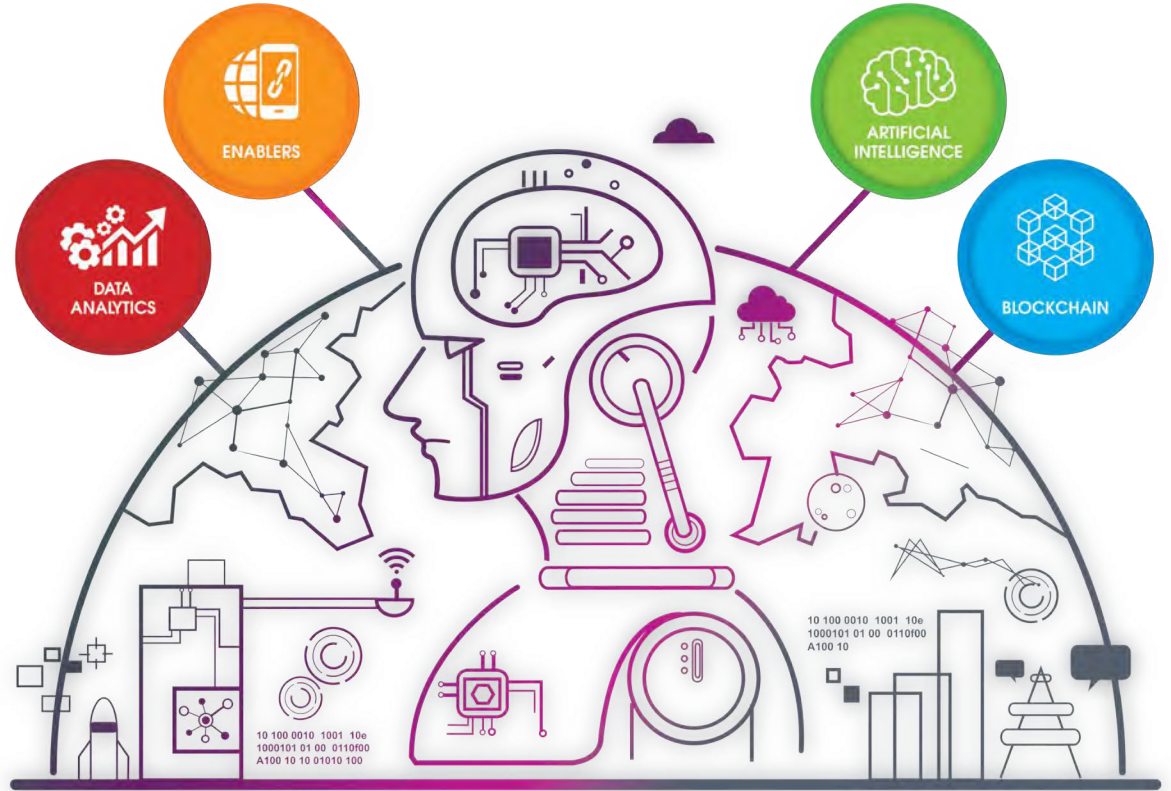
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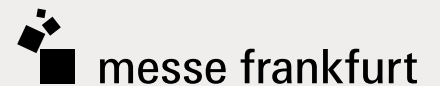
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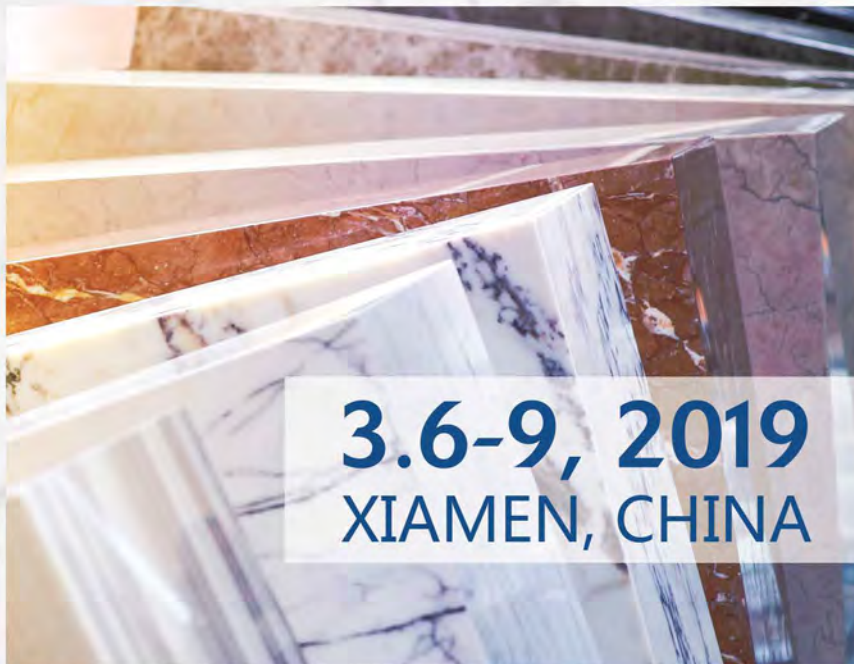
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27-29
JUN**BMAM Expo Asia 2019**

IMPACT Exhibition Center, Hall 6
Bangkok, Thailand
T: +66 2 833 5111
F: +66 2 833 5127-9
E: info@bmamexpoasia.com
W: https://bmamexpoasia.com

3-6
JUL**ARCHIDEX 2019**

Kuala Lumpur Convention Centre
Kuala Lumpur, Malaysia
T: +60 16 233 2773
E: info@archidex.com.my
W: www.archidex.com.my

18-20
SEPT**Cambuild 2019**

Diamond Island Exhibition &
Convention Centre
Phnom Penh, Cambodia
T: +60 3 26926888
F: +60 3 26922788
E: yeo@ambtarsus.com
W: www.cambuildexpo.com

21-23
NOV**MYANBUILD 2019**

MEP Mindama, Yangon
Myanmar
T: +60 3 2692 6888
F: +60 3 2692 2788
E: darren@ambtarsus.com
W: www.myanbuild.net

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Tridium Asia Pacific	📍 Singapore	☎ +65 6580 3200	✉ tsupportap@tridium.com	🌐 www.tridium.com	📖 7
Victaulic	📍 Australia	☎ +61 39392 4000	✉ vicaust@victaulic.com	🌐 www.victaulic.com	📖 11

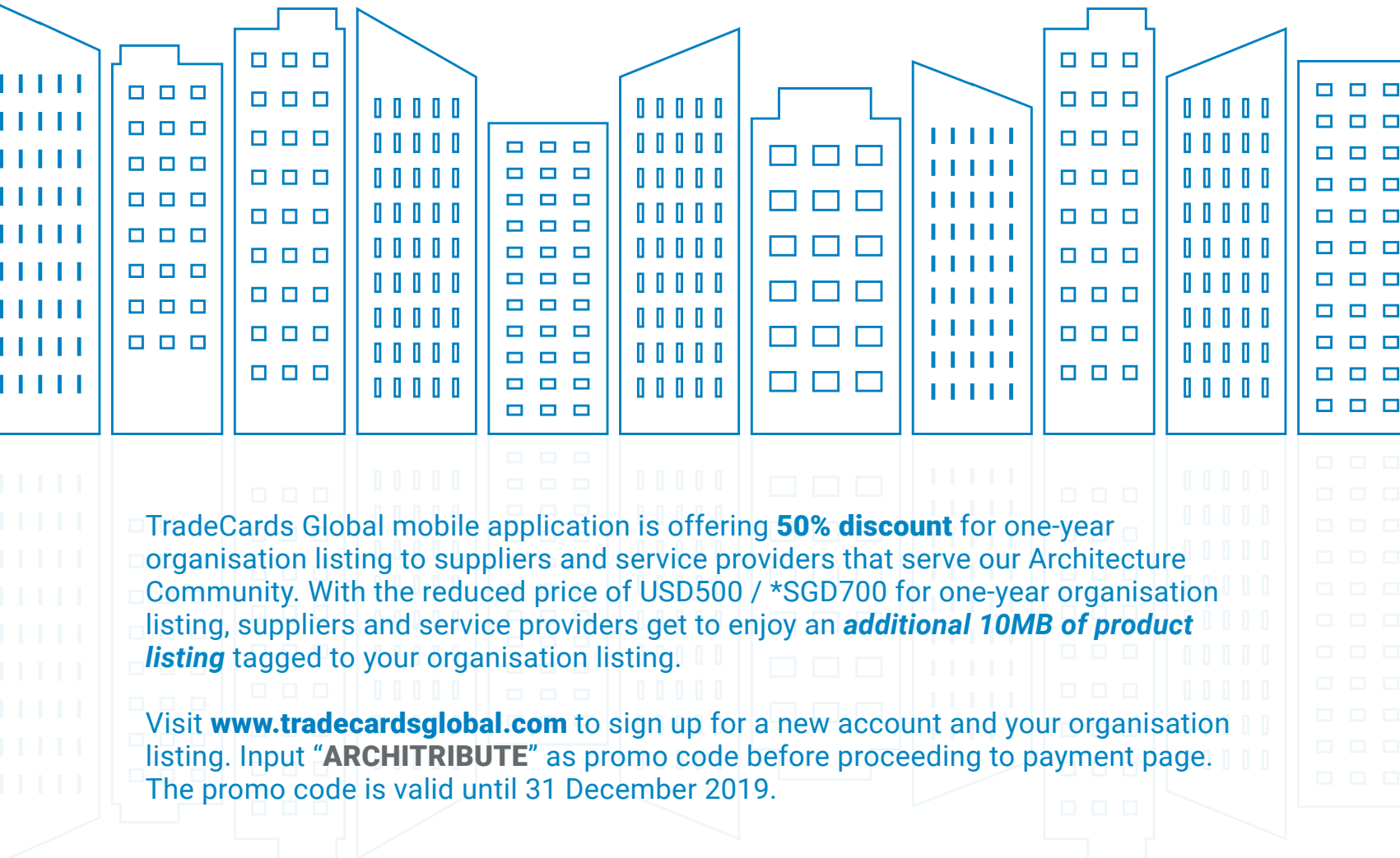
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PLAYPOINT (Singapore)	📍 Singapore	☎ +65 6398 1558	✉ info@playpoint.com.sg	🌐 www.playpoint.asia	📖 9

See us at following upcoming events!

Event	Date	City	Country	Website	Page
Korea Build 2019	20 – 24 Feb 2019	Seoul	South Korea	eng.koreabuild.co.kr	99
Xiamen Stone Fair 2019	6 – 9 Mar 2019	Xiamen	China	www.stonefair.org.cn	105
Worldbex 2019	13 – 17 Mar 2019	Manila	Philippines	www.worldbex.com	104
Sydney Build 2019	14 – 15 Mar 2019	Sydney	Australia	www.sydneybuildexpo.com	103
Megabuild 2019	14 – 17 Mar 2019	Jakarta	Indonesia	www.megabuild.co.id	100
Ecobuild Southeast Asia 2019	19 – 21 Mar 2019	Kuala Lumpur	Malaysia	www.ecobuildsea.com	98
IOT Asia 2019	27 – 28 Mar 2019	Singapore	Singapore	www.internetofthingsasia.com	94
Architect Expo 2019	30 Apr – 5 May 2019	Bangkok	Thailand	asa.or.th/architectexpo	95
SMABIoT 2019	8 – 10 May 2019	Taipei	Taiwan	smahome.tw.messefrankfurt.com/taipei/en.html	102
BMAM Expo Asia 2019	27 – 29 Jun 2019	Bangkok	Thailand	bmamexpoasia.com	96
Archidex 2019	3 – 6 Jul 2019	Kuala Lumpur	Malaysia	www.archidex.com.my	92
Cambuild 2019	18 – 20 Sep 2019	Phnom Penh	Cambodia	www.cambuildexpo.com	97
Myanbuild 2019	21 – 23 Nov 2019	Yangon	Myanmar	www.myanbuild.net	101

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