

East Asia News Issue 220 (Mar 2023)

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Spotlight



SPOTLIGHT

Chengdu Golden Ring: creating a linear mode for urban renewal in China

Located in the northeast of the Chengdu city centre, the Golden Ring Road functions as a 30km spine that connects historic sites in the north to the innovation and technology expansion in the south of the city.

Projects



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Solar PV feasibility study for Hong Kong International Airport



Mobility plan for Hon Thom Island, Vietnam



Optimising and electrifying the bus network for Quezon City...

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Architectural design for Admiralty Station earns three prestigious honours

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SPOTLIGHT

Chengdu Golden Ring: creating a linear mode for urban renewal in China

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We have been shortlisted in the Golden Ring urban renewal project competition to formulate an integrated urban design to vitalise the Chenghua District of Chengdu, a gateway to western China. The task includes urban-scale development strategies, land-use planning, detailed renovation design and specific research work.

Located in the northeast of the Chengdu city centre, the Golden Ring Road functions as a 30km spine that connects historic sites in the north to the innovation and technology expansion in the south of the city.

Envisioned as an urban renewal catalyst for the Chenghua District, this project aims to boost the cultural industry, transit-oriented development and technological innovation in the area.



Shengyan Lake gateway



A linking and waving structure

The Golden Ring is the boundary between the inner industrial heritage and the outer electronic industrial campuses of the city, making it a unique point of convergence.

Based on the overlay of the land-use conditions, road structures, transit networks and identified developing opportunities, our planning team laid a zoning framework defining key nodes for detailed development. These nodes not only serve as the transition points connecting the urban fabrics, but also act as character-defining gateways and imagery along the linear urban interface.

A resilient city approach

Situated in the Sichuan Basin, the Chengdu city experiences low wind speeds throughout the year, intensifying the heat island and haze problem. We developed and deployed a resilient framework along the area to minimise these impacts, by:

- creating wind corridors from the Sha River and the outer green buffer;
- inserting a pocket park and upgraded streetscape system to increase the green ratio and rainfall permeability; and
- developing a green suburban ecological framework.



The resilient index of the region and our proposed green network

Comfort	Increase 60ha blue-green space and mitigate the urban heat island effect by reducing the ambient temperature by about 1.5°C
Flood Resilience	Increase 20% retaining green area and 400,000 m³ storage space
Green Air	Create 62ha urban forest and increase annual pollutant absorption by 6000t (taking SO ₂ as an example)
Health	Optimise the planting structure and reduce the noise peak by 10dB. Increase the visual green space in dense urban areas by 25%
Social Equity	Increase 115ha outdoor activity space and areas for public services and facilities by 30%

A mix of the old and the new

The key design principle for revitalising this area is to celebrate the industrial history of the Chenghua District. Our urban design balances public engagement and the cultural character to honour the collective memory and preserve the rich heritage of the industrial parks.

Our design takes full advantage of the green

and ecological environment at the Shengxian Lake gateway and helps create an active innovation hub. The corten steel building façade of the Wangu Factory will be preserved as a relic, while new offices and hotels will bring a fresh life to the area and balance the heart of the city.

To stimulate the new heart of Chenghua District, our proposal complements the city fabric and establishes strategies to connect regional innovation resources. The design broadens local urban and landscape characteristics, implements resilient city practices and creates a series of vibrant environments on key nodes. The linear mode used for the Golden Ring Road planning framework establishes an exemplar for future urban regeneration in China.



This urban regeneration masterplan builds upon existing characteristics, implements resilient city practices and creates a series of vibrant environments while stimulating innovation.

For more information, please contact



Chen Li
Planner



Alex Lam
Senior Designer



Wen-jun Zhang
Associate



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Creating an inclusive community with the Zubin Foundation



Designing a delightful experience: Not A Hotel Nara, Japan



Uniting Asia to build resilience

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PROJECTS

Novaliches-Balara Aqueduct 4 commissioned

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After five years of construction, Novaliches-Balara Aqueduct 4 (NBAQ4) has recently been commissioned to deliver 1,000 million litres of water per day, serving more than 7.4 million people in eastern Metro Manila.



(From left to right) Ric Roldan Cruz, Mark Wallace, Alfie Sasi, Aporo Consulta, Orlando Cruz, Allen Sebastian, Adrian Marsden, Deorah Oliva and Abigail Endriza from our Manila office at the inauguration ceremony



"We are proud to have helped Manila Water to deliver this flagship project, ensuring water supply reliability and security in a highly urbanised city. The NBAQ4 project is a testament to major infrastructure development being possible without causing disruption to either public roads or the local community."

Raul Manlapig, Director

The project involves construction of a 7.3km, 3.1m diameter tunnel beneath Commonwealth Avenue using a tunnel boring machine – a first in Metro Manila. Other components of the project include a new intake facility in La Mesa reservoir, an outlet structure in Balara treatment plants and the downstream network system.

The project also provides redundancy in the event that the existing three raw water aqueducts are shut down for subsequent assessments and rehabilitation.

Our Manila and Hong Kong team collaborated throughout the project phases – from undertaking the development of the reference design, specifications and contract for the project through to the construction supervision and commissioning.



This flagship project ensures water supply reliability and security in a highly urbanised city.

For more information, please contact:



Deorah Oliva
Marketing Officer

PROJECTS

Solar PV feasibility study for Hong Kong International Airport

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Leveraging our strong engineering capabilities in aviation while demonstrating our expertise in climate and sustainability, we won a consultancy contract for a feasibility study on onsite solar opportunities at the Hong Kong International Airport, the first large-scale sitewide photovoltaic (PV) study in Hong Kong.



To align with the carbon neutrality vision of the Airport Authority Hong Kong (AAHK), this study aims to investigate opportunities for implementing and increasing solar energy generation at the airport. This is the first step for the aviation industry in Hong Kong and the wider East Asia region in commencing decarbonisation.

The airport-wide study covers all existing buildings and planned developments owned and controlled by the AAHK, its key aviation-related business partners that joined the 2050 Net Zero Carbon Pledge, government departments on the Airport Island, including those at the Three-Runway Systems site, and other spaces like car parks, transport shelter canopies, open areas and marine coves on the Airport Island. This study will be a breakthrough in the application of PVs in the airport environment - PV systems are considered to be undesirable to the aviation industry as they can cause glare and thus pose safety concerns.

The scope of the feasibility study involves global research on the latest solar technologies and relevant case studies from other international airports, including a high-level case study in applying floating PV at the airport and building integrated PV technologies in the south and east façades of Terminal 1.

The study also includes developing an overarching PV implementation roadmap for the AAHK in the short term (0-2 years), medium term (2-5 years) and long term (5-10 years) and providing options for consideration, with a target to achieve 55% absolute emissions reduction by 2035 against a 2018 baseline.

The project commenced in January 2023 and is targeted for completion in June 2023.



This project aims to explore the decarbonisation opportunity at HKIA by expanding onsite solar PV generation capacity. Engagement with key aviation-related business partners will be included to reduce wider airport-based carbon emissions.

For more information, please contact



Gigi Kam
Associate Director



Ka-Man Miu
Engineer



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Electrifying the bus network for Quezon City, Philippines



Mobility plan for Hon Thon Island, Vietnam



Novácká-Bereňská Aqueduct 4 commissioned

PROJECTS

Mobility plan for Hon Thom Island, Vietnam

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Building on our prior successes in providing transport consultancy services for tourism and high-end urban developments in Vietnam, we have recently won another mobility study for Hon Thom Island, a famous tourist hub in southern Vietnam.



The world's longest cable car from Phu Quoc to Hon Thom



Infrastructure under construction on Hon Thom Island

Located 5km to the south of Phu Quoc Island, the hub has an area of 570ha and is planned for development into 'Paradise Island', integrating sustainable development into a complex of theme parks and luxury resorts. It is projected to handle 50,000 daily visitors. Visitors can travel to the island by the world's longest cable car or via ferry/boat.

We have been commissioned to formulate the overarching mobility plan for the whole island, including public transport planning with the introduction of electric buses and a non-motorised transport network that enables walking trips for visitors, developing an operational plan for passenger ferry services to outlying islands, logistic plans and emergency vehicle arrangements. To provide overall guidance to the planning and design, we will also develop a set of guidelines to help the client in pursuing a vision of sustainability and smart travel.



This mobility plan will introduce electric buses and a non-motorised transport network to sustainably accommodate visitors and residents.

For more information, please contact



Thanh Duong
Senior Planner



Corey Wong
Director



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Novosiliches-Baikal Aqueduct 4 commissioning



Solar PV feasibility study for Hong Kong International Airport

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PROJECTS

Optimising and electrifying the bus network for Quezon City, Philippines

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Building on our recent study to [enhance the bus network in Metro Manila](#), we have been commissioned by the World Bank to undertake another study for Quezon City, located in the northeastern part of Metro Manila, to review and optimise the current bus network and accelerate the transition to electric buses.

Quezon City, the largest and most populous city in Metro Manila, introduced the 'QCity Bus Service' in 2020, a fare-free bus programme which consists of eight routes with 91 diesel buses serving 132 bus stops. This step was to encourage the use of public transport, reduce the city's congestion and help address the safety and pollution issues. Two new routes are planned for service in the near future.



The World Bank is supporting the city in developing an investment proposal for electrifying the bus network via its City Climate Finance Gap Fund. Leveraging our expertise in bus-related projects, we have been appointed to restructure the current QCity Bus program to:

- (i) improve productivity in terms of passengers carried per hour or km;
- (ii) connect to worthy key generators currently underserved;
- (iii) create interchange opportunities with new urban rail lines opening in the next few years;
- (iv) estimate the number of electric buses required; and
- (v) estimate the sizes of terminals and depots needed to house e-bus services.

We adopted several key bus planning tools developed in East Asia and Southeast Asia for the study including an automated bus stop placement tool, a field survey app used in other bus studies to estimate land acquisition and road modifications and an e-bus feasibility tool that generates vehicle fleet, charger and energy load requirements.

The study will be jointly undertaken by the Hong Kong and Manila Transport teams. This project will help to open up strategic opportunities for us to continue our successful relationship with the World Bank and other international financial institutions in the region.



This project will significantly reduce the carbon footprint of the bus network, whilst improving the connectivity and efficiency to better serve users.

For more information, please contact



Corey Wong
Director



Cristina Mirella Villaraza
Partner



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Solar PV feasibility study for Hong Kong International Airport



Mobility plan for Hon Thom Island, Vietnam



Noix/Innes-Saints Aqueduct 4 commissioned

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AWARDS

Architectural design for Admiralty Station earns three prestigious honours

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Our architectural design for the Admiralty Station extension project in Hong Kong has earned three prestigious honours from local and internationally renowned award schemes in recognition of its outstanding innovative and sustainable architectural design.

The three awards are:

- Gold Prize, Architecture – Public and Institutional by Hong Kong Design Awards 2022
- Silver winner, Architectural Design – Transportation by The MUSE Design Awards 2022
- Honorable Mention, Architectural Design/Transportation by The Architecture MasterPrize 2022

“These awards are a strong testament to our pursuit of excellence and realising beauty, efficiency and sustainability through our total design approach. They are also a great recognition of the seamless collaboration between Arup and our client, ensuring all works are delivered without impacting the existing railway operations while bringing minimal disruption to the community.”

Jason Wong, East Asia Rail Leader



“This human-centric design enhances passengers' comfort, experience and wellbeing, within a multi-level, underground station environment. This interchange station provides commuters with an easier wayfinding experience, where four of Hong Kong's most busiest lines intersect and connect. Our Architecture team is proud to contribute our expertise to help shape our city and its sustainable future.”

Karma Barfungpa, East Asia Architecture Director

Located in the heart of Hong Kong, the Admiralty Station extension connects four existing railway lines, becoming the largest interchange station in the MTR network. As the lead consultant for this exceptionally complex and challenging project, our scope covered railway engineering and project management, architecture and station planning, civil, structural, geotechnical, building services, traffic fire engineering and other specialist services.

Our design realised a stunning skylight above the 30m tall atrium, which not only draws natural light from the street level to the underground space, but also creates the main spine for passengers moving between the various lines and to the hinterland.



Organised by representatives from the global community of renowned design brands and studios, Hong Kong Design Awards recognise innovative and outstanding designs. The Muse Design Awards are



Simon Cheung (left), Architectural Discipline Leader, and Caleb Tam (right), Architectural Designer

selected by the leaders of a diverse range of marketing and advertising companies from around the world, which aim to set a new trend in design excellence by recognising creative and inspiring design. The Architecture MasterPrize is one of the most authoritative world-class architectural awards and sets a new benchmark for the global architecture and design industry.

For more information, please contact



Simon Cheung
Associate Director



Caleb Tam
Designer



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Fire expertise recognised by ADB



Three gongs at OC Construction Innovation Awards



La Mesa Water Treatment Plant 1 wins 'Project of the Year' at 2022 FID

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DIGITAL

Digital hero: Paresh Vishnoi

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In the last of our **'digital heros' series**, we talk to Paresh Vishnoi, a specialist in bridge design based in our Hong Kong office, on how digital tools and data can make our infrastructure smarter and more resilient.



Can you tell us your role and how you use digital tools in your daily work?

I am a Bridge Engineer in the Hong Kong Civil & Resources team where I also work on digital applications in our design and BIM workflows. I'm quite hands-on with programs like Grasshopper and Python which help me to develop tools that are compatible with multidisciplinary workflows. I identify project design automation needs and act as a digital integrator for the design team to develop specialised tools with the help of our Digital Design team (DDT) and Advanced Digital Engineering team.

Another area of work is providing support on group-wide initiatives and advising other groups/offices on the implementation of virtual reality (VR) workflows on their projects. I serve as the Tools Register Champion for the Bridge and Civil Structures Skills Network and keep track of tools being developed in other regions for collaboration and sharing. I am also a member of the global digital bridge initiative for developing digital-twin services for asset management clients.

How have you been developing your digital design skills?

I started proper coding training during my Master's, developing the deployable VB.NET program using the power of ArcGIS spatial analysis for assessing earthquake risks for the Indian government. This was when I realised how important it is for each algorithm to be efficient, simple and robust for its reusability. I have been developing this ability through a combination of formal training and self-learning.

Since joining Arup, I have been learning and collaborating with my peers on the job for developing parametric modelling scripts, structural analysis and optimisation on numerous projects. I have also been developing Python and data analysis skills working on projects including Stonecutters Bridge structural health monitoring system which involved processing enormous amounts of sensor data and typhoon wind analysis.



Exploring the CAVE-VR facility at Central Waters-Community Liaison Centre and trialling Unity 360° integration



VR demonstration to our clients and stakeholders, such as the Hong Kong government departments, during Tsing Yi Lantau Link Value Management Workshop

What project are you currently working on and how is the value of digital demonstrated?

I am mainly working on the investigation of Route 11 and Tsing-Yi Lantau Bridge feasibility review. Over these projects, we have extended the parametric modelling tools into BIM, visualisation and VR workflows, helping our clients and stakeholders to explore numerous design options with 3D VR and to understand the construction sequence in real time visualisation using 4D BIM technology.

Both projects involve long-span suspension bridges which require tedious iterative discrete vortex method (DVM) analysis before wind tunnel testing. I have been leading the development of a Total Design Automation (TDA)-based tool along with the DDT for managing hundreds of parallel analysis on the cloud, saving us time and costs under the project's fast-track programme.

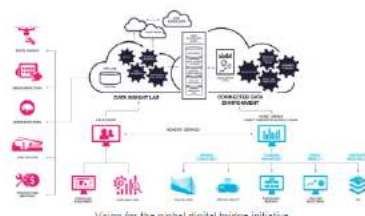
What impact can be brought by digital activities in support of sustainable development?

Our industry and especially infrastructure projects have a huge impact on sustainable development. We have seen significant influence of digital transformation on bridge projects from feasibility studies to detailed design – where we have achieved optimisation of the total cost and embodied carbon associated with material and construction activities.

At the same time, digital applications in asset management of our ageing infrastructure can help to maintain resilience of our transportation networks. It is part of the solution for sustainable development, addressing the increasing risk of climate change and associated catastrophic events which have been observed in recent years in Hong Kong and around the world.

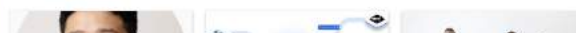


DVM analysis automation of suspension bridge deck using TDA



In what digital areas do you want to explore more?

I want to explore more on various global automation initiatives, harnessing the power of engineering and asset management data to get intelligent insights through AI. These would not only help us achieve cost savings and improve work quality, but also give us a leading edge in the industry, helping us influence our clients and drive their projects towards a better, more sustainable outcome.



DIGITAL

Digital Design Team helps to secure Best Digital Solution Award

Yun Sung
Senior Solution Specialist

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The Digital Design Team (DDT) was instrumental in creating the digital solution selected for the Best Digital Solution Award at the [East Asia Design, Innovation and Technical Excellence \(DITX\) 2022 Awards ceremony](#).

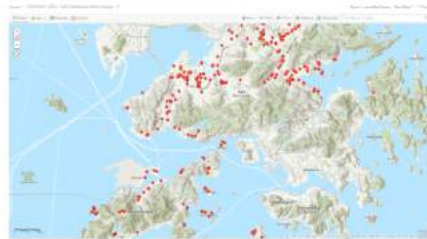
The success demonstrates that data-driven workflows can add tremendous value to a project.

The project, awarded to the Hong Kong Civil & Resources group, was to provide preliminary design to improve the climate resilience of 308 drainage and sewerage infrastructure assets within three years. A range of potential hurdles were soon identified: uncoordinated data collection and handling, repetitive assessment tasks and time-consuming site visits.

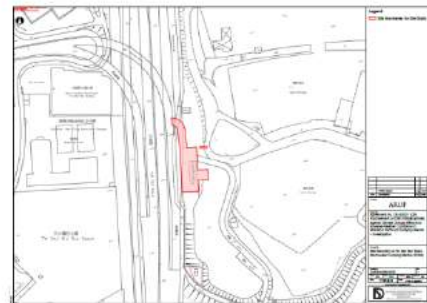
The project team engaged the DDT early on to discuss a data-driven solution and a DDT solutions specialist was brought on board to produce a functional and cost-effective technical design.



From left: Yun Sung (Solution Specialist), Yumi Luo (Deputy Project Manager), Daniel Loup (Engineer), Berry Xie (Engineer)



GIS viewer on Atlas platform showing 308 infrastructures under review



A sample of automatically produced site map drawings

A high priority was given to standardising project data, storing data in a common data environment and streamlining assessment tasks.

Underpinning this is a standard schema for various types of information including spatial data of the infrastructure assets, flood extent maps, geotechnical features and corresponding inference zones and site inspections. The solution specialist worked closely with the team to apply the data schema design and make the databases and software fit together.

Our enterprise GIS platform, Atlas, was selected to house the project's spatial data. The team applied a comprehensive GIS management plan which enabled further opportunities to automate certain repetitive tasks such as production of a set of 308 site map drawings. To achieve this, the solution specialist layered externally sourced datasets with internally curated base maps, branded title blocks, and logical operators for scaling and labelling. The outcome was a pipeline that could automatically produce PDF drawings.

By streamlining production, the team was able to update the underlying datasets and trial different formatting preferences with high confidence that downstream processes would simply work.

View the full [submission video](#) below, and get in touch with [Ramon](#) or [Tom](#) to discuss what we can do for you.



For more information, please contact



Ramon van der Heijden
Director



Thomas Bush
Senior Project Manager



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More on digital



Digital hero: Paresh Vishnoi



Collaborate on 3D models and data with Specitec



Digital hero: Dawn Yip

DIGITAL

Digital Design Roadshow: collaborate on 3D models and data with Speckle

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Producing data underpins the work we do in shaping the built environment. The way we exchange such data is key to improving our quality of work and overall effectiveness. **Speckle** is a digital platform that enables the exchange of 3D models and properties as data, changing the traditional way of sharing information via files. Speckle's data-centric processes can highly reduce human errors and technical reworks from out-of-date files or the dependency on specific software.



Described as 'universal digital glue', Speckle is an open-source cloud platform for exchanging 3D models and properties between different multidisciplinary design and analysis software. It has a portal for managing exchanged data and a growing number of 'connectors' that convert software-specific information into a neutral format.

Speckle is user-friendly allowing users to set up new projects quickly without additional coding ability. There are step-by-step guides available to help you get started with a range of commonly used software, such as Rhino+Grasshopper, Revit and GSA. The portal comes with features including data access management, version control and 3D model visualisation and interaction. Our team has integrated Speckle into other Arup Global Automation platforms such as [Fusa](#) and we also developed and deployed a [portal](#) for offices in East Asia Region for more speed.

With Speckle, you will be able to:

1. Reduce the risk of human errors by exchanging 3D models and properties as data instead of as files.
2. Collaborate across multidisciplinary teams by storing each revision of the model and data in the cloud and having it easily accessible in an open and vendor neutral format.
3. Be future-proofing by providing a framework for developers to build new connectors between your tools and Speckle, automatically establishing a connection with all other software that is already connected to Speckle.

Check out the following video and get to know the capability of Speckle!



If you wish to explore this approach as part of your project's digital inception plan, please contact our Digital Design Team or visit the Arup [Speckle](#) page.

For more information, please contact



Yun Sung
Senior Solution Specialist



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More on digital



Digital hero: Parash Vishnoi



Digital Design Team helps to secure Best Digital Solution Award



Digital hero: Edwin Yip

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CLIENTS & MARKETS

Enhancing relations with Leisure and Cultural Services Department, Hong Kong

Paloma Lau
Senior Officer

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To strengthen our collaboration and strategic partnership beyond the project level, in January we organised two half-day seminars for the Hong Kong government's Leisure and Cultural Services Department (LCSD) to discuss total management of art and cultural assets.



Arup speakers with Mr. Richard Lee (middle), Technical Director (Performance Venues) of the LCSD

Close to 50 participants from various teams of the LCSD came together to explore best practices, understand different services and technologies from Arup and how we can facilitate them to better manage their assets.

Taking place at Sha Tin Town Hall, the thought-provoking knowledge sharing sessions featured more than 10 of our subject experts from across disciplines. They spoke on topics ranging from fire safety, operation, security, night-time design, net zero building design and asset management in the ESG era to smart building digital platforms and tools.

The overwhelming positive feedback from the participants is a strong testament to our exceptional multidisciplinary skillsets and pioneering digital tools. We look forward to further promoting our world-class expertise and data-driven insights to our key clients in 2023.



Our Director Nina Yiu spoke on the lifecycle of building façade during the event



"I am proud to introduce Arup's Sound Lab to LCSD colleagues, showcasing the vital role that Arup's digital tool plays in shaping better design outcomes through auralising the sound performance of venues and spaces before they are built."

Henry Chan, Associate Director in Acoustics, Audiovisual & Theatre Consulting

For more information, please contact



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Strengthening our partnership with CR Land



2022 Annual Report now available

ARUP UNIVERSITY

Driving project innovation through 'Take-two' workshop series

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Learning by reflection and evaluation helps us to earn the best takeaways from experience. The 'Take-two' workshop series is a valuable tool for driving project innovation and success by guiding us to learn from what we have done in the past. To foster collaboration, creativity and reflection, East Asia Arup University empowers project teams with the resources and tools they need to disseminate and harvest knowledge from past projects.



'Take-two? Take it easy!

With the assistance of our AU Knowledge & Information Management (KIM) team, it has never been easier to set up this two-hour Take-two workshop. The AU KIM team has helped to co-design the workshop content with the teams based on our business needs, focusing on learning from another 'SIDE' of the experience:

- **Share** – Share and gain insights from the good practices and avoid the bad
- **Innovate** – Learn from the latest technology, techniques or methods and encourage exploration of the possibilities
- **Discuss** – Facilitate group discussion to put the puzzles together for a new picture
- **Evolve** – Evolve into a new way of working and discussion with the result presented to the group for new knowledge generation

We have successfully hosted workshops for [Bridge and Civil Structures Skills Network](#) and [Masterplanning & Urban Design Skills Network](#). If you wish to participate or host a future session, please contact East Asia Arup University KIM team for further discussion.

"The Take-two workshop is a great opportunity for inter-office collaboration. The overall result is an interesting blend of ideas that can help each team understand the different markets from both design and economic positioning perspectives."

Alex Lara, Shanghai Urban Design Leader

For more information, please contact



Jacky Or
Officer



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Intelligent structural design tool goes to market soon



East Asia Design School



Research Workshop Software Development Skills Network

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ARUP UNIVERSITY

Research workshop for Software Development Skills Network

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To identify the gaps between current know-how and the aspirations of future business, the research team of East Asia Arup University organised a lunch ideation workshop in February for the [Software Development Skills Network](#). The workshop allowed the members to connect with each other and get familiar with available resources in our firm for software development, followed by a quick ideation and discussion.



During the workshop, participants shared different tools and platforms they use and the challenges they face, thereby helping identification of common interests within the Skills Network and thought about creative ideas through understanding the challenges better from different perspectives. Sharing and being inspired by each other, we explored ideas ranging from external trendy topics such as chatGPT, to internal practices like how to facilitate adoption and implementation.

Ideation and innovation are important for both internal and external projects. Our research and workshops aim to add value to projects, facilitate stakeholder engagement and generate greater impacts.



If you have any research or innovative business ideas that you would like to explore with us, please contact [Samuel Tang](#), or share your thoughts with us [on Yammer](#). The [EA Research fund](#) is also open for application now. Find out more!

For more information, please contact



Samuel Tang
Analyst



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New Arup People launched: play your part to make it a success!



Driving project innovation through 'take-two' workshop series



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ARUP UNIVERSITY

Getting inspired by the East Asia Design School

Published 02/03/2023

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The first in-person East Asia Design School organised by Arup University (AU) since the outbreak of COVID-19 was held in early February. A group of 41 participants gathered in the Hong Kong office to take part in a 2.5-day learning experience.



The workshop was officially opened by Michael Kwok, our Region Chair, who inspired the audience with his own personal journey as an engineer and the importance of being curious and generous when pursuing one's career.

Themed as 'Other tomorrows', the faculty members of Design School aroused participants' interests to explore how people will live, work and connect in 2035. Several speakers including artists, architects and professors from Hong Kong and around the world shared their expertise and experience to inspire the group. We covered the topics of culture and identity, the metaverse, Web3, AI technologies and how these can accelerate and influence design processes and their outcomes.



This year, our Region welcomed nominees from the UK and Malaysia to join us in this design journey. During the programme, the participants have sharpened their design skills and broadened their innovative mindset and problem-solving abilities. From scenario-based investigation to collaborative ideation and from physical model building to pitch curation on a virtual platform, participants with diverse cultural backgrounds and disciplines worked together to design for future human needs.

Thanks to the commitment of all the participants and the contribution of the faculty members at this year's Design School, we have demonstrated our potential for delivering excellence to our clients and envisioning sustainable futures. We hope to meet other innovative minds in our next event!



A big shout out to our faculty members:



Ricky Tsui
Director



Yannick Lenormand
Associate



Ding-ting Chen
Senior Planner



Michael Rogers
Senior Designer



Kenny Chan, Viki-Kwong
Associate



Matthew Givers
Associate



Noel Lau
Officer

[Sign up for a free account](#) and take a virtual tour in the metaverse of our East Asia Design School to explore what our young colleagues envisioned for 2035.

Visit our SharePoint page to learn more about [EA Design School](#).



For more information, please contact



Neil Liza
Officer



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Driving project innovation through "Take-two" workshop series



Research Workshop for Software Development Skills Network



Intelligent structural design tool goes to market soon

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FACES

Take part in our Wellbeing Survey

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As part of 'Working@Arup', we are currently running a Wellbeing Survey to assess our ongoing monitoring and to help find ways to improve the way we work across the firm.

Open until **Friday 17 March**, the survey provides an opportunity for you to suggest ways in which Arup as a firm can enhance the wellbeing of our members and to share your situation and views related to your workload, productivity and wellbeing culture.

One year after the publication of our three [global wellbeing commitments](#), this survey also serves as a timely check in to see how we are all doing.

All eligible members should have received an email from our external provider, Culture Amp, on February 27, with a unique personal link for you to complete it. The survey should take you no longer than five minutes to fill out and we strongly encourage you to take the time to complete it to help us shape wellbeing at Arup.

Please remember we have several well-established tools and resources already in place to support us and there are more recent initiatives worth exploring too. You can find everything you need to know about them on our [Wellbeing site](#).

For more details about the survey, please visit the [Global Newsroom](#) or speak to our Region Survey Champion [Kenny Chan](#).

For more information, please contact



Kenny Chan Yiu-Kwong
Associate



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Getting to know... our young engineers from Ho Chi Minh City...



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FACES

Getting to know... our young engineers from Ho Chi Minh City office

 Vuong Ngan Nguyen
Secretary

Published 02/03/2023

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We sat down and chatted with Duong Nguyen (Transportation Engineer), Han Nguyen (Plumbing Engineer), Truong Le (Structural Engineer) and Khanh Hoang (Structural Engineer), four young engineers in our Ho Chi Minh City office, to know more about their working life and understand their journey so far with Arup.



Duong Nguyen

Duong Nguyen, a transportation engineer who joined the firm in October 2022, talked about the challenges she faced and what she has learnt from complex projects. She has been working on a range of national-level projects related to urban transport planning and masterplanning, honing her expertise and soft skills in the field.

Han Nguyen also joined Arup last October and shared his views on the importance of having a supportive and inclusive working environment at Arup. He thought that everyone within the firm is encouraged to speak up and share their opinions equally, making Arup a positive and enjoyable workplace.



Han Nguyen



Truong Le (left), Khanh Hoang (right)

Truong Le and Khanh Hoang have both been with us for two years. Speaking about the importance of practical training and career development opportunities, Truong expressed amazement at the range of training courses for all levels provided by the firm and which has enabled him to develop different valuable skills and earn experience as an engineer.

As a structural engineer, Khanh talked about how working at Arup aligns with the values of sustainability and equality that he believes in.

With their contagious enthusiasm and innovative mindsets, these four up-and-coming talents are ready and well-prepared to inspire others to pursue a career in engineering. We look forward to seeing more and more young talents embarking on this exciting career path.

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Direct appointment

Grade 8



Sam Ng
Associate Director

Sam has joined our Hong Kong Rail & SIT Group. He has over 24 years of experience in major railway projects in Hong Kong and overseas. His areas of expertise include traction power supply system design, signalling and traction power simulations, interface coordination and management, systemwide earthing and bonding strategies, electromagnetic compatibility and stray current corrosion studies as well as other systems engineering related activities.

Sam will be working very closely with the railway system team members, complementing the team's already strong and diversified capabilities, to provide excellent services for all our existing and future clients.

Grade 7



Kenneth Nielsen
Associate

Kenneth has recently joined our Hong Kong Energy team, where he will support the development of the Offshore Wind advisory team. Prior to this, he worked with Danish consultancy Ramboll for 10 years, leading design of primary structures for offshore wind turbine foundations. He also worked for Danish utility company Orsted, as (Senior) Engineering Manager for more than six years with a strong focus on execution of secondary structural design of foundations and stakeholder/interface management as well as fabricability of the foundations.

Kenneth holds a MSc in Civil and Structural Engineering from the Technical University of Denmark with supplementary courses in marine structures, and a Postgraduate Diploma in Business Administration from Copenhagen Business School.

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Newcomers

Hong Kong

Architecture & Building Envelope

Claudia Xiaochen Wang

Building Engineering 1

Damon Kam-Ho Chan

Business Services

Candice Mei-Fan Chan

Civil & Resources

Caleb Wen-Lu Chan
Adrian Cheuk-Wing Lau
Nathan Leung-Chit Man
Candy Chor-Shan Tsang

Civil & Resources site

Ming-Hoi Chan
Peter Ho-Leung Chan
Tsz-Kin Chan
Otto Larry Cheung
Sunny Tsz-Leung Fung
Calvin Hok-Yin Lau
Sammy Wai-Ming Luk
Danny Chi-Ki Lung
Kwan-Lok Ng
Rex Ka-Fai Ng
Leo Tin-Long Tam
Yick-Chai Tse
Gigi Hui-Chi Wong
Michael Lit Wong

Climate & Sustainability

Andy Ka-Yip Lam

Climate & Sustainability site

Yat-Chiu Choi
Derek Ka-Tat Hui
Chi-Ming Lam
Eddy Ka-Yui Lee
Catherine Oi-Ting Ng
Hi-Yi Ng
Steven Kin-Hung So

Digital Technology Group

Benson Cheuk-Pan Wong

Geotechnics & Energy

Michael Ming-Ho Chan
Natalie Chung-Ying Mak

Planning

Yan Pui-Yan Fong
Constance Ling-Ki Hung
Kelvin Kin-Wa Wong
Samson Yulin Xu

Rail & SIT

Derek Hoi-Hei Cheng
Sam Hoi-Sum Ng
Eugene Yiu-Lun Yau

Rail & SIT site

Gary Sze-Hung Lo

Manila

Justine Basilio
Hazel Rose Collado
Jo Ann Gumilao
Michael Angelo Layno
Camille Tuppil
Joel Victorio

Shanghai

Skylar Yun Zhou

Taipei

Nick Jin-De Kuo
Yue Ru Lin
Ross Yuan-Hong Luo

Leavers

Beijing

Tina Ting Liang
Annie Xiao-na Lin
Amanda Chen Wang
Angela Rui Wang

Chongqing

Liang Chen

Hong Kong

Architecture & Building Envelope

Jasmine Mirzaei

Building Engineering 1

Rod Kwing-Lok Ho

Building Engineering 2

Kevin Ngai-Hang Tong
Yik-Chun Yeung
Ryan Jiabing Zou

Building Engineering 3

Danny Chun-Yin Choi

Business Services

Pui-I Leong
Connie Lin-Fan Mak
Kitty Hoi-Pik Yuen

Civil & Resources

Lillian Ho-Chin Lam
Annexed to Main Document

Hong Kong

Architecture & Building Envelope

Civil & Resources site

Pak-Him Chan
Jenny Hoi-Ki Chiong
Woods Chak-Lam Chow
Kwan-Pui Ho
Ivy Wui-Man Leung
Charles Li
Nicole Wai-Yee Li
Janice Ho-Ying So
Man-Chun Sung

Climate & Sustainability

Andy Ka-Yip Lam
Felix Chi-Hung Leung
Tommy Chun-Yin Yap
Felix Yun-Fei Yue

Digital Technology Group

Rocky Lok-Ki Li

Geotechnics & Energy

Jack Haojie Chen
Louis Shaokun Huang

Planning

Annie Pui-In Lo
Bosco Lok-Man Ma
Athena Lai-Yan Yeung

PPM & Advisory

Kam-Min Lam

Rail & SIT

Annexed to Main Document

Climate & Sustainability

Technical Services

Anthony Chor Lam
Marvin Juan Marvin Wirjomartono

Macau

Sophie Hok-lo Kuan
Ken Chao-San Lam
Edkin Chi-Kin Ng
Felix Zongjian Zheng

Manila

Edward Castillo
Xandra Macaraeg
Morland Perez
Ariel Tambis

Shanghai

Qiang Chen
Chun-rong Lu
Yong-An Shi
Chun-mei Wang
Vivian Wei Zhang

Shenzhen

Zhaoqing Gong
Chunxiao Kang
Esther Qing Ou
Mengyuan Wang
Dan Xiong

Taipei

Amy Ya-Hong Cheng
Nick Hsiang-Chung Cheng

Rail & SIT site

Our members in Building Engineering

Claudia Xiaochen Wang

Building Engineering 1

Damon Kam-Ho Chan

Business Services

Candice Mei-Fan Chan

Civil & Resources

Caleb Wen-Lu Chan

Adrian Cheuk-Wing Lau

Nathan Leung-Chit Man

Candy Chor-Shan Tsang

Civil & Resources site

Ming-Hoi Chan

NEW DELIVERED

Our members in Sustainability

Andy Ka-Yip Lam

Climate & Sustainability site

Yat-Chiu Choi

Derek Ka-Tat Hui

Chi-Ming Lam

Eddy Ka-Yui Lee

Catherine Oi-Ting Ng

Hi-Yi Ng

Steven Kin-Hung So

Digital Technology Group

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Jo Ann Gumilao

Michael Angelo Layno

Camille Tuppil

Joel Victorio

Shanghai

Skylar Yun Zhou

Taipei

Nick Jin-De Kuo

Yue Ru Lin

Keigo Fujiwara (Hong Kong Building Engineering 3) and **Florence Hoi-Ting Cheung**, a girl on 16 January 2023

Sammy Yu-Hing Liang (Hong Kong Building Engineering 1) and **Jiahui Wang**, a girl on 11 January 2023

Ginny Cheuk-Wing Ng (Hong Kong Business Services) and **Chong Fei Lam**, a boy on 9 January 2023

Wen-Jun Zhang (Shanghai Planning) and **Lin-lin Tang**, a girl on 10 December 2022



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