

ARUP

Singapore
June 2024

World Cities
Summit 2–4 June

Asia
Infrastructure
Forum 4–5 June

**Proud Knowledge Partner of World Cities Summit
and Asia Infrastructure Forum 2024**

Dedicated to sustainable development, Arup is a collective of 18,500 designers, advisors and experts working across 140 countries. Founded to be both humane and excellent, we collaborate with our clients and partners using imagination, technology and rigour to shape a better world.

Shaping successful cities

As cities grow and evolve, they face unique and tough development challenges – from meeting the needs of growing populations, to building efficient and safe infrastructure, to improving economic opportunity. Success requires alignment between these challenges while ensuring resilience to climate risks and an equitable transition to net zero.

During World Cities Summit and Asia Infrastructure Forum we will explore strategies and solutions to shape successful, resilient and competitive cities. We're here to help your city develop the right strategy, navigate complexity and thrive in uncertainty.

Meet our team

Our speakers



Jerome Frost
Group Chair

Panelist

Resilient and Regenerative Cities
– Plenary 1

How do cities adapt and thrive
in an era of climate emergency?

3 June, Monday, 11:15 – 12:45
Hall 405B

Moderator

Asia Infrastructure Forum
Ministerial Plenary

Framing Asia's Green Transition

4 June, Tuesday, 9:30 – 11:00
Hall 406CX



Kate West
Australasia Co-Chair

Speaker

Future Cities Track Session
Roundtable on the
Future of Downtowns

4 June, Tuesday, 11:00 – 12:30
MR326



Bree Trevena
Australasia Foresight Lead

Keynote speaker

WCS Science of Cities Symposium
Panel 2: Science of
People-centric Cities

2 June, Sunday, 16:10 – 17:50
Hall 405B

Panelist

Future Cities Plenary I
What are the paradigm shifts
needed to build future cities?

4 June, Tuesday, 9:00 – 10:30
Hall 405B



Chintan Raveshia
SEA Cities Lead

Moderator

Future Cities Track Session
Roundtable on the
Future of Downtowns

4 June, Tuesday, 11:00 – 12:30
MR326



Andy Hodgson
Global Advisory Services Lead

Panelist

Future Cities Track Session
Future of Liveability: Redefining
Urban Indices

4 June, Tuesday, 14:00 – 15:30
MR331



Reza Pradana
Senior Designer

Presenter

Designing Tomorrow's
Smart Cities: Connecting
Stakeholders Through City
Information Modelling

3 June, Monday 13:15 – 13:45
City Innovators Stage

Competitiveness redefined

Shaping successful cities

Meet our team

Our delegates



Kate West
Australasia Co-Chair



Tan Yoong Heng
Singapore Geography Lead



Tony Chan
SEA Planning Lead



Kate Hardwick
Singapore Advisory
Services Lead



Kristian Steele
SEA Climate &
Sustainability Services
Lead



Charles Im
SEA Rail Lead



© Jeremy Photography



Nick Ash
SEA Energy Lead



Shruti Rathore
Singapore Strategy
and Insights Lead



Safiah Moore
Indonesia Cities
and Planning Lead



Wang Shan-Shan
Singapore Water Lead



Sebastian Lee
Singapore Infrastructure
Lead



Nick Chong
Singapore Finance
and Economics Lead



Peter Stones
Singapore Civil,
Water & Resources
Lead



Elisa Tiaras
Singapore Waste &
Resources Lead

Project features



The future of urban agriculture in Singapore

Singapore

It is estimated that 80% of all food will be consumed in cities by 2050, but how will cities manage the growing demand? With over 90% of fresh produce currently imported, how will Singapore fare? Our Foresight and Innovation team hosted an event with leaders from agriculture, industry and the built environment to discuss Singapore's situation. Our report from the event is available on our website.



Circular economy opportunities for sustainable Growth in Thailand

Thailand

The circular economy is a way to reinvent the future to create sustainable growth and prosperity and is central to Thailand's growth strategy. We identified and prioritised opportunities according to economic and environmental potential, focusing on the full value chain. Our recommendations focused on three strategic sectors with the potential benefit of US\$23.1bn.



Penang International Commercial City

Malaysia

We developed a digital masterplan focused on creating a technology-enabled smart 'city within a city' across the 43-acre mixed-use development. Using people-centric design principles, we approached the brief from a design, technical and financial standpoint.



Auckland Light Rail

New Zealand

With an additional one million people expected to live in Auckland by 2046, the 24km light rail network plan focuses on connecting people to work and study opportunities and could be an important catalyst for urban regeneration, facilitating the development of new homes and businesses along the route.



Shougang Industry Services Park

Greater China

Urban regeneration projects offer cities opportunities to define long-term development strategies that integrate the goals of more sustainable resource use and carbon emissions reduction. This park was China's first C40 Climate Positive Development Project.



Hong Kong-Zhuhai-Macau Bridge

Greater China

Hailed as an engineering wonder, this bridge further improves transport connectivity between Hong Kong, Macau and major cities in Guangdong province. This key initiative is part of the Chinese government's strategy to drive the economic and social integration of the Greater Bay area.

Report features



Towards net zero land transport

Globally, transport is responsible for approximately a third of total carbon emissions. This is both a challenge, and a tremendous opportunity. To achieve net zero land transport, we need to think about where we can have impact and what interventions are appropriate where. Our whitepaper showcases our framework and how we've applied it to help cities on their transport decarbonisation journey.



The Global Green Economy Report

As countries race to hit net zero goals, the global economy is rapidly going green.

But what is the green economy? How large is it? How will it grow? And how can it be developed in a way that drives prosperity and inclusiveness, as well as environmental sustainability?

In this report we explore how governments, investors and communities can understand the opportunities promised by green economic strategy and take action to build sustainable prosperity.



Urban Heat Snapshot

Millions of people are increasingly suffering from frequent heatwaves and the design of our cities is intensifying the problem – with the most vulnerable often the worst impacted. A new digital solution from Arup – UHeat – has helped us to explore the issue in greater detail than ever before. Our resulting Urban Heat Snapshot reveals how the urban heat island (UHI) effect is pushing up temperatures in cities across the globe.



Global Sponge Cities Snapshot

How 'spongy' is my city? Why does it matter? Our Global Sponge Cities Snapshot aims to get people talking. How can we move beyond concrete solutions to help cities cope with increasingly heavy rainfall and other impacts of climate change?

In this report we analyse the urban centres of Auckland, London, Montreal, Mumbai, Nairobi, New York, Shanghai, Singapore, Sydney, Toronto.

Our services

Advisory Services

We bring clarity, insight and rigour to organisational decisions. Whether you're investing in new real estate and assets, contemplating a new business model or service, or adopting more sustainable ways of working, we can help.

- Strategy and insights
- Finance and economics
- Programme and project management
- Assets and operations consulting
- People and organisations
- Sustainable development advisory

Cities, planning and design

We combine local knowledge and investment insights to unlock any scheme's true potential – from single projects to city-wide masterplans.

- Architecture
- Economic planning
- Environmental consulting
- Flood risk management
- International development
- Landscape architecture
- Masterplanning
- Planning policy advice
- Smart cities
- Town planning

Climate and sustainability services

We help clients evaluate the specific climate and sustainability issues they are facing now and into the future. We create organisation-wide plans to help our clients achieve their net zero targets.

- Climate strategy, planning and reporting
- Decarbonising operations
- Adapt to build resilience
- Circular economy
- Become a sustainable organisation
- Environmental and nature-positive design

Digital services

Digital runs through everything we do. We combine analytics, automation, digital creativity, and merging technologies, with the multidisciplinary engineering and domain knowledge of Arup.

- Data insights
- Digital asset management
- Digital consulting
- Digital design
- Digital for sustainable development
- Emerging technologies
- Automation

Technical consulting

Our technical experts foster collaboration and integration across our teams and projects to deliver specialist services for our clients. Sometimes referred to as our secret sauce, our technical specialists provide solutions for our clients' trickiest problems.

- Acoustics, AV and Theatre
- Building envelopes (Façades)
- Fire
- Resilience, security and risk
- Lighting
- Ground engineering and Underground space
- Unique offerings like wind and structural vibration

Infrastructure

We help public and private sector clients create the world's hardest working infrastructure – from metro systems to bridges, from dams and water management to waste management to power stations, from highways to high-speed railways and from airports to ports.

Buildings

We've spent over 70 years refining our approach to building design, always searching for a unity of concept, form, user experience and sustainable use of materials. Our collaborative ethos and breadth of multidisciplinary thinking enable us to produce some of the world's most ambitious and highest performing buildings.

Contact

For more information, please contact us at +65 6411 2500



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