

CONFERENCE



RICS®



REDAS

RICS-REDAS Singapore Smart Buildings Conference

Accelerate to build a smart, resilient and net-zero future

1 November 2023, Grand Copthorne Waterfront Hotel, Singapore



Type of event

Face to face



CPD Hours

5.5 Formal

Book your place today

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The climate crisis poses significant challenges to urban development. However, Singapore's strong commitment to sustainability is clearly demonstrated by its robust green building policies and the ambitious Singapore Green Plan 2030. The importance of smart buildings cannot be overstated in the journey towards achieving net-zero operations. Central to this effort is the Singapore Green Building Masterplan (SGBMP), which provides a clear roadmap for the transformation of buildings into sustainable assets. Through the SGBMP, specific targets and strategies are outlined to promote green building practices and enhance energy efficiency.

Returning for its 6th year, and in collaboration with REDAS, the RICS Smart Buildings Conference will bring together industry professionals, policymakers, and thought leaders to discuss and explore the latest trends, policies, and technologies shaping the smart building, construction, and real estate sectors in Singapore and wider SEA region.

The conference aims to bridge the gap between policy objectives and on-the-ground implementation, to accelerate the adoption of smart and sustainable building practices, contributing to Southeast Asia's vision for an efficient and sustainable future.



Time Zone:

SGT

8.30

Registration and networking

9.30

Opening by conference chair

Dr. Eugene Seah FRICS, Chief Operating Officer, Singapore Operations and Senior Director, GCEO Office, Meinhardt Singapore Pte Ltd, Global Board Member, Meinhardt Group

9.40

Welcome and opening remarks

Marcus Lim, Head of Strategic Partnerships (APAC), RICS

10.00

Session 1. Keynote address: Looking forward, Looking back - towards a productive and decarbonized built environment industry

- How will the Singapore Green Plan 2030 and Smart Nation Initiative bring a more smart and sustainable future to the country?
- The global circular economy transition and what it means for Singapore and wider SEA regions.
- How can the circular economy support the built environment sector to cope with its worldwide environmental challenge?
- Singapore's holistic approach to building a smart city.

Dr. John Keung, Chairman, Tiong Seng Contractors Pte Ltd. Adjunct Professor, NUS Cities, College of Design and Engineering, National University of Singapore

10.40

Session 2. Tech synergy: How can emerging digital technologies make buildings smarter and more resilient?

- Overview of the latest advancements in smart building technology.
- Integrating BIM and AI for smart building management: current status and future direction.
- Exploring IoT, 5D BIM and data analytics for optimizing building performance.
- How Digital Twins can help decarbonise buildings and create net-zero cities.

Cheong Kheng Hwa, Senior Director – Sales & Innovation, C&W Services (S) Pte Ltd

11.10

Networking refreshment break



Time Zone:

SGT

11.35

Session 3. Spotlight showcase : Smart building projects transforming the business and urban landscape of Singapore

- Explore how smart buildings can contribute to creating a sustainable and resilient urban landscape in Singapore.
- Showcase the latest innovations and technological advancements in smart building projects.
- Highlight how smart buildings projects can enhance the tenant experience and improve productivity.
- The broader implications of digital transformation on real estate; adoption of smart building technologies, sustainable practices, and innovative business models.

Ashith Alva, Head – Project Design, Development & Management, Jewel Changi Airport Devt Pte Ltd

12.05

Session 4. Panel session: Collaboration for climate resilience: optimizing the lifecycle of a building.

- Strategies to meet the Singapore Green Plan 2030 by building upon existing real estate assets and retrofitting smart features into existing buildings.
- Discuss the role of property developers, technology providers, government agencies and consultancies in creating a collaborative ecosystem for innovation and implementation of smart buildings.
- Cybersecurity issues during the lifecycle of a building.
- Leveraging data analytics and predictive maintenance to improve occupant satisfaction, drive operational efficiencies, enhance energy management of properties.
- How can the profession be upskilled to meet these future needs?
- Showcase smart buildings practices in regions of SEA, unlock barriers for countries in SEA and turn its diversity into a strength.

Moderator:

Liam Bray MRICS, Director, Portfolio Management Asia, Turner & Townsend

Panelists:

Bryan Chin, Vice President, Building + Places, AECOM

Jasondass Pillai, Country Manager, Malaysia & Brunei, IBM Global Real Estate

Angela Spathonis, Principal & Managing Director, Gensler

Jonathan Tan, Managing Director at UnaBiz

13.05

Lunch and networking



Time Zone:

SGT

14.00

Session 5. Keynote presentation: The future of smart & sustainable buildings and the investment landscape

- Discuss regional government initiatives and incentives which aim to encourage investment in smart buildings in Singapore and the wider Southeast Asia area.
- Explore the various investment opportunities including greenfield developments, retrofitting existing buildings, and investing in smart building technologies and solutions.
- Discuss the risks associated with smart building investments and strategies to mitigate them.
- Share global best practice and explore sustainable financing models for smart building investment in Singapore, including green bonds, green loans, and energy performance contracting.

14.30

Session 6. Panel discussion: Building next-gen smart infrastructure in Asia

- Explore innovative design approaches and architectural considerations for next-generation smart infrastructure in Asia.
- Discuss collaborative construction strategies and project management techniques that can facilitate the seamless integration of smart technologies and systems into infrastructure projects.
- Discuss how user-centric design, occupant comfort, and personalized smart services can enhance the overall user experience and satisfaction in buildings and urban spaces.
- Innovative financing models for smart infrastructure: How can public-private partnerships, green financing options and investment strategies accelerate the adoption of smart technologies in infrastructure development for Southeast Asia?
- Explore regulations, standards, and innovative approaches for establishing and operating data centres in Singapore and other Southeast Asian Countries. How can data centres become more sustainable and achieve carbon emission targets by 2050?
- EV charging and data center infrastructure transition; progress, opportunity and challenges in Southeast Asia.

Moderator:

Dennis Tan FRICS, General Manager , PPP Infrastructure Management Pte Limited

Panelists:

Jonathan Beard, Partner, Infrastructure Advisory - Strategy & Transactions Asia-pacific Platform, Ernst & Young Transactions Ltd

René Hillig , Managing Director Singapore and Head of Project & Programme Management Southeast Asia, Asia Infrastructure Solutions

Boyinton Low, Director, Data Centre Operations, Empyrion DC

Gavin Steele MRICS, Director of Infrastructure, Asia, Turner & Townsend Pte Ltd

15.30

Networking refreshment break



Time Zone:

SGT

15.55

Session 7. Panel discussion: Empowering cities for a net zero future: smart facility management

- The latest trends, challenges, and opportunities in smart facility management.
- Explore the role of technology, data analytics and automation in enhancing operational efficiency, sustainability, and occupant satisfaction.
- Discuss how data-driven insights can improve asset lifecycle management, space utilization, maintenance planning, and cost optimization.
- Explore the challenges and solutions of ensuring data privacy and cybersecurity in smart facility management.
- The opportunities that collaboration between property developers, owners, and technology provide to create a holistic and integrated smart facility management solutions.
- Share best practice and case studies from Southeast Asia regions on implementing smart facility management solutions for decarbonisation.
- How International Building Operation Standards (IBOS) promotes a people-centered approach to the management of buildings in SEA.

Moderator:

Effendi Asngari, Senior Manager, Energy and Sustainability Consultancy Services, Savills Singapore

Panelists:

Esther An, Chief Sustainability Officer, City Developments Limited

Russell Kok, Chief Marketing Officer, Qornerstone Pte Ltd

Kabi Subramaniam, Associate Principal, Building Advisory Lead, Singapore, Arup

Ervin Tan, Director, Meinhardt Digital Technology Solutions

16.55

Closing remarks

Dr. Eugene Seah FRICS, Chief Operating Officer, Singapore Operations and Senior Director, GCEO Office, Meinhardt Singapore Pte Ltd, Global Board Member, Meinhardt Group

17.00

End of conference

Delivering confidence

We are RICS. Everything we do is designed to effect positive change in the built and natural environments. Through our respected global standards, leading professional progression and our trusted data and insight, we promote and enforce the highest professional standards in the development and management of land, real estate, construction and infrastructure. Our work with others provides a foundation for confident markets, pioneers better places to live and work and is a force for positive social impact.

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