REDAS-RICS Smart Buildings Conference  
**Date:** 6 March 2019, Wednesday  
**Venue:** Grand Copthorne Waterfront Singapore

As Singapore embarks on its smart-nation journey, we deep-dive into the government's strategies and projects that will transform existing industrial, commercial and residential buildings into "smart" buildings.

**Speakers**
- **A New Frontier in Public Residential Development: Smart Home**  
  *Er Dr Johnny Wong*, Group Director, Building & Research Institute, HDB
- **Towards Smart Building – Developments in Singapore**  
  *Benjamin Towell*, Senior Manager - Green Mark Department (New Development), BCA
- **Building Safety and Security Driven by Smart Technology**  
  *Ansley Yeo*, IOT Lead South East Asia, Microsoft

And more…

**Conference highlights**
- Singapore's Smart Nation: The national strategic implementation for existing and upcoming buildings.
- Smart systems within the building: Understand the integration, limitations and benefits.
- Hear from the dynamic panel of experts: What are the technical aspects and social implications?
- The future smart buildings: Change is the only constant?
- Insights into the value chain of smart technologies investment.

This conference is supported by BCA, HDB, ACES, APREA, CIOB, DBEI, IFMA, SCAL, SCL, SIBL, SISV and SPM.

Visit [www.rics.org/smartbuildings](http://www.rics.org/smartbuildings) for more information.

**Member rate for ACES members**

- **Website:** [www.rics.org/smartbuildings](http://www.rics.org/smartbuildings)  
- **Discount code upon registering:** ACES_SB

This allows ACES member to be entitled to prevailing member rate.

Please see refer below brochure for more details.
REDAS-RICS Smart Buildings Conference

Building transformation for the future

6 March 2019
Grand Copthorne Waterfront Hotel Singapore

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Book your place today:

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For offline booking, kindly contact us at +65 6812 8186
or email sea@rics.org
Looking back at REDAS-RICS Smart Buildings Conference in 2018

Overview

Looking ahead to 2030, building functions should aim to become completely autonomous and self-learning, better known as smart buildings. This starts from the basic design and conceptualisation stage through to construction, energy, life cycle and people flow stages.

While new buildings can be designed and constructed to implement smart technologies from the ground up, existing buildings can be transformed to incorporate and converted into smart buildings.

As Singapore embarks on the Smart Nation journey, REDAS-RICS Smart Buildings Conference 2019 will deep-dive into the government’s strategies and activities on how to transform existing buildings to be ‘smart’, such as retrofitting existing industrial, commercial and residential buildings as well as incorporating smart FM solutions.

Highlights

1. Singapore’s Smart Nation: The national strategic implementation for existing and upcoming buildings.
2. Smart systems within the building: Understand the integration, limitations and benefits.
3. Hear from the dynamic panel of experts: What are the technical aspects and social implications?
4. The future smart buildings: Change is the only constant?
5. Insights into the value chain of smart technologies investment.

Job Profiles

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A great opportunity for networking & knowledge sharing that you should not miss. Book now at rics.org/smartbuildings
Featured speakers

Er. Dr. Johnny Wong  
Chief Technology Officer/  
Senior Director (Research &  
Development), Ministry of  
National Development and  
Group Director, Building &  
Research Institute  
Housing & Development Board

Benjamin Towell  
Senior Manager - Green  
Mark Department (New  
Development)  
Building & Construction  
Authority

Ansley Yeo  
IOT Lead South East Asia  
Microsoft

Gordon Falconer  
Global Director, Smart Cities  
Schneider Electric

Dr Boaz Boon  
Senior Advisor  
VestAsia

Seah Chee Huang  
President  
Singapore Institute of  
Architects

Jimmy Lee Yeong Wee  
Head of Advisory, Smart City  
Solutions  
Surbana Jurong

Sundar Selvam  
Vice President, Office of  
Campus Infrastructure and  
Services  
Singapore Management  
University

Seng Joo How  
CEO  
CPG Facilities  
Management Pte Ltd

Frank Ngoh  
General Manager  
E M Services Pte Ltd and  
Secretary of IFMA (Singapore  
Chapter)

Alberto Muñoz Cuevas  
Associate Partner,  
McKinsey & Company

Scott Dunn  
Vice President, Strategy &  
Growth, Southeast Asia,  
AECOM

Phil Lazarus  
Digital Practice Leader, Asia  
Aurecon

Key sessions

Towards Smart Building – Developments in Singapore  
BCA initiatives in smart building developments and its push in  
transforming existing building to be smart. Sharing the key focus  
of BCA strategic projects on smart buildings.

Modification of Facilities Management with Smart Solution  
Hear from the FM experts the advantages and disadvantages of  
smart FM solution in the existing building. Look at their operation  
centre and smart FM solution projects.

Panel Discussion: Collaboration Works in Transforming Old  
Buildings into Smart  
Limitations and benefits in smart feature application in the  
existing commercial, industrial and residential buildings. Hear  
from the panel of experts how they integrate design, mechanical  
and electric building system, as well as sustainability and  
management.

Panel Discussion: Transforming Existing Building, Creating  
Future Smart Building  
Risks of smart technologies application in existing building and how it  
enhances the occupants’ experience. The panel of experts will share  
their perspectives on the future buildings as the results of legacy  
building conversion in 10 to 20 years to come.

For a full programme, visit www.rics.org/smartbuildings

Networking opportunities

Connect with industry professionals and catch up with the latest industry news and reports  
from your sector through the conference.

Also have your say at the REDAS-RICS Smart Buildings Conference by using our hashtag:  
#RICSSmartbuildings
Programme
Wednesday, 6 March 2019

9:00 Conference Chairperson’s Welcome

9:05 REDAS Opening Remarks

9:15 RICS Welcome Remarks

9:20 Towards Smart Building – Developments in Singapore
- BCA Initiatives in pushing smart building development
- How does the existing buildings ride on the initiatives in conversion to be smart buildings?
- Key focus of BCA strategic projects on smart buildings
- Pitfalls in smart building transformation: safety and security
- Case studies

Benjamin Towell, Senior Manager - Green Mark Department (New Development), Building & Construction Authority

10:00 Driving Smartness in HDB Towns: Creating Estates that Care for You
- From 1960 to today: how Singapore’s landscape has adapted and adopted innovations in housing
- For tomorrow: how the housing landscape of the future looks like, through the lenses of challenges and opportunities
- Future-ready: technologies and initiatives in public housing for the future ahead

Er. Dr. Johnny Wong, Chief Technology Officer/Senior Director (Research & Development), Ministry of National Development and Group Director, Building & Research Institute, Housing & Development Board

10:40 Networking refreshment break

11:10 Collaborative works in transforming old building into smart
- How do stakeholders integrate smart technology into the current system operated in a building?
- How does smart system affect collaboration among stakeholders?
- What are the challenges in revamping the design and infrastructure of legacy buildings to install smart technology?
- Is smart system an enabler or disruptor for building owners, operators and occupants? Why?
- What is the value occurred in retrofitting the legacy buildings with smart technology application?
- Showcase of operational efficiency, resource management, space utilisation and occupant experience

Moderator:
Dr Boaz Boon, Senior Advisor, VestAsia

Panellists:
Seng Joo How, CEO, CPG Facilities Management Pte Ltd
Gordon Falconer, Global Director, Smart Cities, Schneider Electric
Seah Chee Huang, President, Singapore Institute of Architects

12:10 Networking Lunch

13:10 The transformation journey of SMU City Campus
- Sustainability journey – Initiatives and innovations implemented to improve energy and water performance of campus
- Challenges and benefits on the building transformation/New Sustainability Targets
- Integration of passive design, mechanical and electrical building system, sustainability and management
- A case study on SMU student hostel – Prinsep Street Residences (PSR)

Sundar Selvam, Vice President, Office of Campus Infrastructure and Services, Singapore Management University

13:50 Building Safety and Security Driven by Smart Technology
- Key issues on data collection through smart technology for building safety and security
- Safety and security enhancement through smart solutions
  - Predictive maintenance
  - Building protection
  - Prevention of faulty operation
- Who are the stakeholders involved in data collection?
- Case study on data collection through smart building which provide comfort for tenants

Ansley Yeo, IoT Lead South East Asia, Microsoft

14:30 Networking refreshment break

15:00 Key drivers to Industry Transformation Map and its impact to FM operations
- Industry transformation map and its impact on the FM sector
- Key drivers and challenges in the FM transformation plan
- Smart FM implementations at Tampines Town Council

Frank Ngoh, General Manager, E M Services Pte Ltd and Secretary of IFMA (Singapore Chapter)

15:40 Retrofitting Existing Buildings to Grow Smart City
- What is the contribution level of retrofitting existing building to grow smart city?
- If building is only one of the components in the smart city planning, what are other “smart” components required in growing smart city?
- Smart city challenges in putting across smart system to connect existing buildings with the overall estate operations
- Showcase on services in planning and delivering “smart” solutions in a city

Jimmy Lee Yeong Wee, Head of Advisory, Smart City Solutions, Surbana Jurong

16:20 Transforming Existing Building, Creating Future Smart Building
- Four frontier smart technologies: AI, data analytics, immersive media and IoT
  - What will happen if they replace the human planning in design and construction of buildings?
  - How do they integrate with the existing system in legacy building?
  - What are their limitation in building conversion?
- How do building, smart technology and people integrate? What are the challenges?
- What are the differences between legacy and smart buildings?
- How does “smart” add value or enhance experience of the occupants?
- How do you foresee in the transformation of the current building now and in the future, 10, 20, 30 years to come?

Moderator:
Scott Dunn, Vice President, Strategy & Growth, Southeast Asia, AECOM

Panellists:
Phil Lazarus, Digital Practice Leader, Asia, Aurecon
Benjamin Towell, Senior Manager - Green Mark Department (New Development), Building & Construction Authority
Alberto Muñoz Cuevas, Associate Partner, McKinsey & Company

17:20 Close of the Conference

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