

iBuildSG LEAD Milestone Programme

Executive Development Programme on

LEADING FORESIGHT & INNOVATION IN THE BUILT ENVIRONMENT (UK)

12 – 16 May 2025 | London, UK



Organised by:

BCA ACADEMY

PROGRAMME OVERVIEW

As part of the BuildSG LEAD Milestone Programme designed to collectively shape the industry through our Global Perspectives Programmes for enterprise-level leaders, the Executive Development Programme on Leading Foresight and Innovation in the Built Environment (UK) aims to accelerate industry transformation through in-depth exchanges and discussions with global leaders, BE professionals, technologists, government council as well as academia on the latest trends and developments that are shaping the future of the Built Environment.

Anchored on the theme of Integrated Project Delivery (IPD) and Advanced Manufacturing and Assembly (AMA), the programme focuses on leadership development beyond knowledge in the technical aspects, allowing BE Leaders to develop long term foresight acumen to anticipate and prepare for the challenges ahead.

Conducted in the formats of learning journeys, keynote lectures and executive dialogues, the programme aims to equip BE Leaders with the latest insights and knowledge to formulate strategic plans for IPD and AMA implementation for their organisations, as well as for the sector collectively to drive transformative and sustained growth.



PROGRAMME OBJECTIVES

- i) **Strengthen global foresight and mindset shift to capture opportunities and growth for collective transformation to shape the future BE sector** through an understanding of the latest global trends and directions of the BE sector, learn from the strategic directions of the UK to advance and transform the BE sector and glean best practices from globally leading organisations and advanced projects.
- ii) **Harness the potential of the latest technology innovators to push the boundaries and advance the sector towards an integrated and data-driven Built Environment** through an understanding of advanced digitalisation and modularization, productization, automation and AI to overcome workforce challenges and enable better integration between IPD and AMA.
- iii) **Develop business case for the adoption of transformative solutions and collaborative approach to strengthen business resilience and achieve integration of planning, design and construction** through an understanding of the business drivers and workforce alignment for IPD and AMA as well as the growing global popularity in the adoption of NEC to drive collaboration.

ANCHOR SPEAKERS AND FIRMS



Fergus Harradence
Deputy Director Construction, Logistics, Airports & Water and Construction Infrastructure & Energy Directorate at Department of Business & Trade (DBT)



May Winfield
Global Director of Commercial, Legal and Digital Risks, Buro Happold



Jaimie Johnston
Director, Head of Global Systems, Bryden Wood



Simon Evans
Global Digital Energy Leader and Global Digital Twin Leader, Arup



Department for
Business & Trade

Foster + Partners

Stay tuned for the confirmation of more speakers.

PROGRAMME OUTLINE

DATE	TIME	FOCUS AREA
SUN 11 MAY		Outbound flight (Singapore to UK) (Flight SQ 306)
		Arrival in London
MON 12 MAY	GLOBAL FORESIGHT & EMERGING TRENDS IN THE BUILT ENVIRONMENT	
	AM	Welcome & Programme Overview
		Keynote Presentation: UK's Latest Development in the Built Environment & Future of the BE Landscape
		Global Forecast and Market Trends
	PM	Systems Thinking for the Built Environment
		Emerging Trends and Advancement in Construction Technologies and Digital Integration
		Fireside Chat: Key Driving Forces in UK's Construction Industry Evolution & Lessons Learnt
TUE 13 MAY	PUSHING THE BOUNDARIES OF CONSTRUCTION THROUGH AI AND ADVANCED DIGITALISATION	
	AM	Innovating with Advanced Technologies - Maximizing the Potential of Robotics, Automation and Additive Manufacturing - Role of Advanced Digitalisation in Modular and Prefabricated Construction
		Capitalising on AI for the Construction Sector
		Learning Journey #1 – Exemplary Project that Pushes the Boundaries Innovatively
	PM	Learning Journey #1 – Exemplary Project that Pushes the Boundaries Innovatively
WED 14 MAY	ADVANCED MODULARISATION AND DATA-DRIVEN CONSTRUCTION	
	AM	Business Case for Productization Strategy and Data-driven Project Delivery
		Managing Complexity: Strategies for Integrated Digital Delivery (IDD) and Advanced Manufacturing and Assembly (AMA) Integration in Large Scale Projects
		Fireside Chat: Enabling a Data-driven Built Environment
	PM	Unlocking the Potential of Industrialised Construction Innovation for Productivity
		Learning Journey #2 – Innovative Firm with Industry-leading Expertise
THUR 15 MAY	RE-DEFINING BUSINESS SUCCESS THROUGH COLLABORATION	
	AM	Strengthening Business Resilience through Collaborative Approach
		Global Adoption of NEC4: Systems Integration, Legal & Regulatory Requirements, Cost of Implementation
		Addressing Supply Chain Fragmentation: Challenges, Impact and Solutions
	PM	Sharing of Case Study on Successful Integration of Planning and Design in Collaborative Contracting using NEC Contract
		Learning Journey #3 – Leading Firm that Embraces Collaborative Delivery
		Appreciation and Networking Dinner
FRI 16 MAY	RE-IMAGINING THE FUTURE CONSTRUCTION LANDSCAPE	
	AM	Learning Journey #4 – Global Firm with Thought Leadership
	PM	The Future of Urban Systems and the Built Environment
		Roundtable Discussions – What's Next?
		Presentation of Certifications & Group Photo
SAT 17 MAY		Inbound flight (London to Singapore) (Flight SQ 319)
SUN 18 MAY		Arrival in Singapore

* Please note that the programme may be subject to changes, delegates will be informed accordingly should there be any changes.

PROGRAMME HIGHLIGHTS

DAY 1 - Global Foresight and Emerging Trends in the Built Environment

- Facilitate foresight planning and learn from the strategic directions of the UK to advance the BE sector.
- Gain insights into the emerging advancement and the leading UK initiatives to transform the sector.

DAY 2 - Pushing the Boundaries of Construction through AI and Advanced Digitalisation

- Leverage the latest construction technology innovators (e.g. AI, robotics and automation, 3D printing, standardisation) to overcome workforce challenges.
- Align processes with the advancement in IDD and AMA implementation.

DAY 3 - Advanced Modularisation and Data-driven Construction

- Develop a business case to adopt productization strategy (i.e. modularization and standardization such as Kit of Parts for Integrated Project Delivery from Design to Assembly) to facilitate automation.
- Draw parallels from the manufacturing industry to unlock the potential of integrated digital delivery and off-site automation.

DAY 4 - Re-defining Business Success through Collaboration

- Understand the business drivers and implementation considerations for adopting the collaborative delivery approach.
- Building supply chain resilience through successful integration of planning and design in collaborative contracting.

DAY 5 - Re-imagining the Future Construction Landscape

- Exploring the next step for sustainable manufacturing and construction (e.g. clean energy, living construction materials, innovative materials).
- Predict construction methods and technology that will go obsolete in the future and the impact of the rise of new innovative materials and methods.
- Strategies in shaping the future built environment through collaboration and innovation.



Mark Enzer OBE FREng
Strategic Advisor, Mott MacDonald, London, UK, and Visiting Professor, University of Cambridge and Imperial College London

PROGRAMME DIRECTOR

Mark is a keen champion of outcomes-focused systems-thinking, collaborative delivery models, digitalisation, connected digital twins and the circular economy in the built environment. Mark is the Royal Academy of Engineering Visiting Professor in the digitalisation of the built environment at the University of Cambridge, and he is a Visiting Professor in the Department of Civil and Environmental Engineering at Imperial College London. As a Mott MacDonald Fellow, Mark provides advice to key clients on digitalisation and broader industry transformation. Previously, Mark was the CTO of Mott MacDonald and the Director of the Centre for Digital Built Britain, where he was the Head of the UK's National Digital Twin programme. Mark is a member of the Prime Minister's Council for Science and Technology.

PROFILE OF PAST PARTICIPANTS

Strong support from senior management representatives of both private and public sectors.

PRIVATE SECTOR

Architects 61 Pte Ltd
ADDP Architects LLP
Autodesk
Boustead Projects E&C Pte Ltd
C&W Services (S) Pte Ltd
CapitalLand Development Pte. Ltd
China Construction (South Pacific) Development Co. Pte Ltd
Ciap Architects Pte Ltd
City Developments Limited
CPG Consultants Pte Ltd
DP Architects Pte Ltd
Dragages Singapore Pte Ltd
E M Real Estate Pte Ltd
ECAS Consultants Pte Ltd
Excel Precast Pte Ltd
Exceltec Property Management Pte Ltd
Far East Management (Private) Ltd
Gammon Pte Limited
Greena Consultants Pte Ltd
Guan Ho Construction Co (Pte) Ltd
Ho Bee Land Ltd
Hwa Seng Builder Pte Ltd
ID Architects Pte Ltd
Keppel Land (Singapore) Pte Ltd
Kimly Construction Pte Ltd
Koh Brothers Building & Civil Engineering Contractor (Pte.) Ltd
LAUD Architects Pte Ltd
Lum Chang Holdings Limited
Mapletree Investments Pte Ltd
Meinhardt Singapore Pte Ltd
Mott Macdonald Singapore Pte Ltd
Newcon Builders Pte Ltd
Obayashi Singapore Pte Ltd
Ong & Ong Pte Ltd
Rankine & Hill (Singapore) Pte Ltd
Samwoh Corporation Pte Ltd
Santarli Construction Pte Ltd

Savills Property Management Pte Ltd
Sembcorp Design & Construction Pte Ltd
Shingda Construction Pte Ltd
Singapore Engineering & Construction Pte Ltd
Soilbuild Group Holdings Ltd
Straits Construction Singapore Pte Ltd
Sunray Woodcraft Construction Pte Ltd
Surbana Jurong Consultants Pte Ltd
Teambuild Engineering & Construction Pte Ltd
Tiong Aik Construction Pte Ltd
Tiong Seng Civil Engineering (Private) Limited
TW-Asia Consultants Pte Ltd
United Tec Construction Pte Ltd
UOB Limited
Woh Hup (Private) Limited

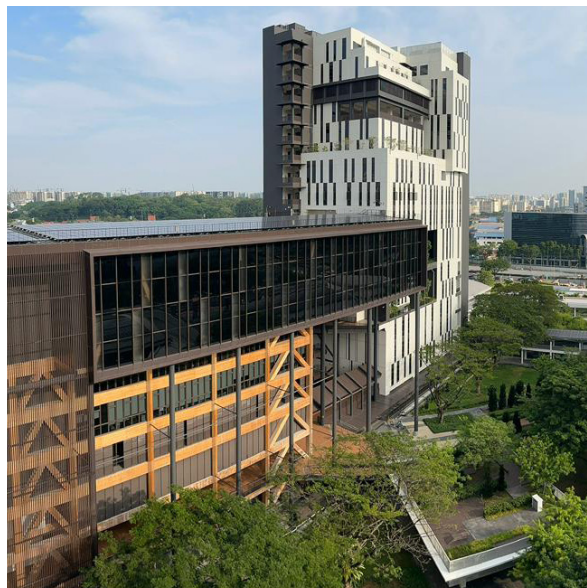
PUBLIC SECTOR

Changi Airport Group
Defence Science & Technology Agency
Housing & Development Board
JTC Corporation
Ministry of Education
Ministry of Manpower
Ministry of Finance
MOH Holdings Pte Ltd
National Parks Board
Sport Singapore
Urban Redevelopment Authority

PROGRAMME ORGANISER

BCA Academy

The BCA Academy (BCAA) is the education arm of the Building and Construction Authority, Singapore. Founded in 1984, BCAA offers a wide range of training and education programmes tailored to the needs of the building and construction industry. These include programmes for professionals, management and executive personnel, and technical specialists. BCAA has been collaborating with established tertiary institutions to conduct undergraduate degree, postgraduate degree, executive development and advanced management programmes. Our partners include Imperial College London, Stanford University, Carnegie Mellon University, Singapore Management University, Singapore University of Social Science, University College London, University of Nottingham, HFT Stuttgart University of Applied Sciences, Tsinghua University, Tongji University, Kyoto University, University of Florida, Denmark Technological University and University of Newcastle, Australia.



ADMINISTRATIVE DETAILS

Executive Development Programme on **LEADING FORESIGHT & INNOVATION IN THE BUILT ENVIRONMENT (UK)**

COURSE DURATION: 12 – 16 May 2025 (Registration close: 2 May 2025)

PROGRAMME FEE: SGD 4,500* (GST not applicable)

Fee includes course materials, refreshments, appreciation dinner and local ground transportation to and from the airport. Fee does not include airfare, accommodation and other meal expenses.

FLIGHTS AND ACCOMMODATION

- Participants are encouraged to book their air tickets based on the recommended flights (SQ 306 on 11 May 2025 and SQ 319 on 17 May 2025).
- Local ground transportation to and from the airport will be provided for participants taking the recommended flights.
- Participants would need to confirm the hotel booking with BCA upon registration.
- Hotel bill will be charged to participants upon check out.

PAYMENT

Payment instruction will be provided after the registration is submitted.

CONDITIONS OF REPLACEMENT AND WITHDRAWAL REQUEST

- Replacement request in writing must reach BCA Academy on or before 21 Apr 2025
- Withdrawal request in writing that reaches BCA Academy after 21 Apr 2025: No refund of programme fee.

CPD POINTS

Subject to award from BOA-SIA and PEB

ENQUIRIES

You may contact Ms Ho Xue Mei (ho_xue_mei@bca.gov.sg) should you have any queries.

BCA Academy reserves the rights to amend the course or programme details, content and application fees without prior notice. It also reserves the right to cancel or postpone the course or programme due to unforeseen circumstances.



REGISTRATION

To register, please log into our Online StoreFront (OSF) at <https://eservices.bcaa.edu.sg/registration/#/Login> or scan QRcode and search for course code **81044**.



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