



COVID-19's Impact on Digital Construction Revolution & Integrated Digital Delivery (IDD)

RICS SEA In-Focus Webinar Series
in collaboration with RISM

Overview

Construction projects across the world have been significantly affected by COVID-19. As the focus turns towards recovery, it is important to ensure construction site safety and project continuity.

With US\$177.5B wasted annually due to poor communication, reworks, and bad data management in the architecture, engineering and construction (AEC) industry, Virtual Design Reviews are a crucial part of the shift towards a fully Integrated Digital Delivery (IDD) process for the AEC industry. To fully harness the potential of Building Information Modeling (BIM), traditional design reviews are to be conducted in virtual reality, enabling consultants to literally step into their 3D Models and experience their buildings at a 1:1 scale. The perception of building and its components from this vantage point as opposed to traditional 2D plans and sections will improve the understanding of issues and challenges in the various phases of the design process to aid recovery in the new COVID-19 world.

The webinar will be chaired by Prem Kumar FRICS, the Chairperson of RICS Southeast Asia Advisory Board.

Date: 22 September 2020

Time: 14:00 – 15:45 (GMT +0800)

Supporting partner



CPD accreditation

BOVAEP (applied); CIDB (5 CCD points)

Register here: rics.org/idd-cpd

Agenda

13:30 Registration

"MySMM" - Explained

A sub-committee was formed over two years ago with the task to rewrite SMM2 as part of RISM's initiative. After more than two years of hard work, a new SMM which is more appropriately named, 'MySMM' has been completed and is presently under industry feedback phase. The main part of MySMM is the tabulated rules of measurement for building works which are being structured to provide the following guidelines with respect to:

- 14:00
1. Drafting 'Preliminaries', 'Specification', and 'Preambles'
 2. Specific information to be shown in the 2D drawings or to be input into the 3D model
 3. Specific rules of measurement that cannot be covered or inferred from the components/items and the Preambles
 4. Rules of measurement which incorporates user-friendly and BIM-friendly features

This talk will explain the above guidelines by referring to the relevant parts of MySMM and at the same time show an example as to how user-friendly component/item descriptions can be created from the tabulated format.

Sr Chin Keh Liang CQS, FRISM, FRICS

RISM QS Division MySMM Sub-Committee

Director of JUB Central Sdn Bhd & Advisor of Perunding PCT Sdn Bhd

5D BIM Digitalisation – Unexplored Potentials

While it is important for Quantity Surveyors (QS) to embark on digitalisation (5D BIM) to keep up with the adoption of Digital Construction Revolution, there are other issues that needs to be addressed before QS could excel in the BIM world. One of the important factors is to ensure that the 3D model used is not solely for visualisation but that it also gives accurate information for quantities extraction and cost of projects.

14:15

With reference to the new MySMM that is in the final draft stage which will replace SMM2, case studies on the examples of Bills of Quantities using MySMM and the digitalisation of the model mapping of 5D BIM process will be shared. Examples of how the variation works could be visualised using colour variance and updated in quantities and cost according to the new 3D Model will also be illustrated.

This talk will give an overview of how 5D BIM digitisation will equip Quantity Surveyors to embark on Integrated Digital Delivery in the Digital Industrial Revolution world.

Sr Sharifah Noraini Noreen Syed Ibrahim Al-Jamalullail,

CQS, MRISM, MIVMM, Member MAPMA, MSc.I.T (Warwick, U.K), BSc (Hons) QS (Bristol, U.K)

Chair of RISM QS Division Innovation Sub-Committee

BIM Director, Integrated Project Information Management Sdn. Bhd. (IPIM)

Senior Project Manager, Perunding DMA Sdn. Bhd (PDMA)

Agenda

BIM and Virtual Reality

Gain insights into the VRcollab LITE software that converts BIM models for use in design reviews, building requirement approval and construction coordination. The “Merge” function allows multiple BIM that have been modelled on different software to be combined into one model using VRcollab LITE, facilitating an easy workflow for consultants.

14:30 Multi-User VR functionality aids in the seamless communication between groups whether in one physical location or remotely via the internet. This is further enhanced by Virtual Design and Construction (VDC) oriented software features and automated document generation allowing professionals to be effective and efficient within the VR environment

Tee Jia Hen, CEO, VRcollab Pte. Ltd.

Digital Construction Journey

In this session, Rob will share China Construction Development Co’s digital construction journey and how CCDC’s digital progression had led to higher forms of productivity & accurate construction for projects.

14:45 The presentation shall focus on how VR technology have helped projects to finalise all design coordination works, with VR owners & consultants immersing themselves to experience spaces & actual finishes in virtual environment.

Rob will also show audience how CCDC leverage on digital technology to enable ‘Design for Safety’ and better manage quality during pre-construction and construction implementation.

Rob Sanchez, Snr BIM Manager, China Construction Development Co

Panel Discussion and Q&A: COVID-19’s Impact to Projects

Moderator:

- **Sr Lim Kok Sang FRICS**, Immediate Past Chairman of QS Division, RISM

Panellists:

- 15:00**
- **Sr Chin Keh Liang CQS FRISM FRICS**, RISM QS Division MySMM Sub-Committee; Director of JUB Central Sdn Bhd & Advisor of Perunding PCT Sdn Bhd
 - **Sr Sharifah Noraini Noreen Syed Ibrahim Al-Jamalullail, CQS, MRISM, MIVMM, Member MAPMA, MSc.IT (Warwick, U.K), BSc (Hons) QS (Bristol, U.K)**, Chair of RISM QS Division Innovation Sub-Committee; BIM Director, Integrated Project Information Management Sdn. Bhd. (IPIM); Senior Project Manager, Perunding DMA Sdn. Bhd (PDMA)
 - **Tee Jia Hen**, CEO, VRcollab Pte. Ltd.
 - **Rob Sanchez**, Snr BIM Manager, China Construction Development Co

15:45 End of Seminar

Meet the chairperson

Prem Kumar FRICS

Chairperson, RICS Southeast Asia Advisory Board
Executive Director, Jones Lang Wootton



Prem has 33 years' experience in providing real estate professional services and became a Proprietary Partner/Executive Director of Jones Lang Wootton in February 1998.

He has great passion for valuation and coupled with his extensive exposure to the profession over the years, he has built a strong reputation as a valuation consultant and thrives on providing sound valuation advice which continue to be highly sought after. His professional conduct and approach is well-known in the market for the high level of integrity and ethics in tandem with the philosophies of Jones Lang Wootton. He is recognised and acknowledged as a role model for the profession.

Recognition of his vast experience and exposure to the real estate industry have transcended national boundaries as evidenced by the various international professional affiliations/appointments with the Royal Institution of Chartered Surveyors and UN-Habitat, thus joining a select group of Malaysian individuals who are recognised as real estate experts from an international perspective.

Meet the speakers

Sr Chin Keh Liang

RISM QS Division MySMM Sub-Committee
Director, UB Central Sdn Bhd; Advisor, Perunding PCT Sdn Bhd



Sr Chin Keh Liang graduated from Heriot-Watt University, UK with a B.Sc. (Hon) degree in Building Economics and Quantity Surveying in 1977. He is currently a Fellow of both RISM and RICS and a registered member of BQSM since 1987.

During his stellar career that spans over 40 years, with experiences in both public and private sectors in Malaysia, he co-founded JUB Central Sdn Bhd (JUBC) and Perunding PCT Sdn Bhd (PCT) in 2002 and 1992 respectively. Today, he remains as the director of JUBC and acting as the advisor to PCT.

Sr Chin is presently a member of PAQS BIM Committee and heading RISM's task force in drafting MySMM to replace SMM2 for use in Malaysia. He is also the brainchild of Elemental Design Analysis (EDA) – a revolutionary approach to cost estimates and cost planning, and has presented paper on either EDA or MySMM in QSIC, PAQS's Congress, and RISM's workshops and seminars.

Meet the speakers

Tee Jia Hen

CEO, VRcollab Pte. Ltd



Tee Jia Hen has over 5 years of software engineering experience with management responsibility. Jia Hen has always believed that virtual reality holds the promise of allowing us to express what we mean rather than merely describing something with verbal approximations.

Before starting VRcollab, he founded and organized a 1000-member VR association, AsiaVR Association, a non-profit focusing on promoting dialogue, debate, collaboration and investment in this rapidly evolving area of technology innovation. He was also the Deputy Chairman of Singapore Computer Society VR/AR SIG. With his experience and passion, Jia Hen co-founded VRcollab - VDC software solutions for the Architecture, Engineering & Construction (AEC) industry which provides BIM interrogation, Stakeholder collaboration, Virtual Reality in a concise and effective tool.

Sr Lim Kok Sang FRICS

Immediate Past Chairman of QS Division, RISM



Sr Lim Kok Sang is a Chartered Surveyor and Fellow Member of RICS; the Principal of Sang QS Consult; a Registered Consultant Quantity Surveyor with Board of Quantity Surveyors Malaysia (BQSM); a Fellow Member of Royal Institution of Surveyors Malaysia (RISM); a Member of the Chartered Institute of Arbitrators (CI Arb); and a Panel Adjudicator of Asian International Adjudication Centre (AIAC).

Sr Lim has over 20 years' experience working with building and civil engineering works in Malaysia, Ireland and the UAE. He has also served the professional bodies in various capacities including Vice President, Deputy Vice President, Education and Accreditation Board Deputy Chairman, Exam Board Secretary of RISM, Panel Assessor, technical committee and sub-committee member.

Meet the speakers

Rob Sanchez

Snr BIM Manager, China Construction Development Co



Rob Sanchez is a vastly experienced construction professional with years of design and project management expertise. Since joining CCDC in 2014, he was put in charge and successfully setup the BIM & digital arm of the company. He has a bachelor's in architecture & is currently doing his masters in NTU. Rob has been an associate member of the NUS BIM center of excellence since 2017.

Sr Sharifah Noraini Noreen Syed Ibrahim Al-Jamalullail

Chair of RISM QS Division Innovation Sub-Committee

BIM Director, Integrated Project Information Management Sdn. Bhd. (IPIM)

Senior Project Manager, Perunding DMA Sdn. Bhd (PDMA)

CQS, MRISM, MIVMM, Member MAPMA, MSc.I.T (Warwick, U.K), BSc (Hons) QS (Bristol, U.K)



Sr Sharifah Noraini Noreen Syed Ibrahim is currently the BIM Director for Integrated Project Information Management Sdn Bhd (IPIM) and the Senior Project Manager for Perunding DMA Sdn. Bhd. She is also the Chair of RISM QS Division Innovation Sub-Committee.

She is a registered CQS member of the Board of Quantity Surveyors Malaysia (BQSM), member of the Royal Institute of Surveyors Malaysia (MRISM), member of Malaysian Asset Project Management Association (MAPMA) and member of Institute of Value Management Malaysia (IVMM).

Sr Sharifah Noraini Noreen has a Bachelors degree with Honours in Quantity Surveying at University in the West of England, UK and a Masters degree in Information Technology at Warwick University, UK.

In 2013, she had conducted a survey and research titled "Building Information Modeling Awareness and Readiness Among Quantity Surveyors and Quantity Surveying Firms" for the Royal Institute of Surveyors Malaysia (RISM) together with Assoc. Prof Sr Dr. Kherun Nita Ali and other members of the RISM BIM Technical Committee.

She is also the Focus Group Leader for the Technology Group member and member of the Engineering Group for Professional Services Productivity Nexus (PSPN) 2020 Projects.

Registration form



COVID-19's Impact on Digital Construction Revolution & Integrated Digital Delivery

Date and time: 22 September 2020, 14:00 – 15:45 (GMT +0800)

Mode of delivery: Online (*Link will be sent in confirmation email 1 week before event starts*)

Fees: RICS/RISM/MBAM member – MYR 150
Supporting partner's member (E.g. CIDB myBIM Centre) – MYR 165
Non member – MYR 180

Deadline for registration: 20 September 2020

Please return completed form to SEA@rics.org. Your registration is only confirmed upon receiving our acknowledgement.

Delegate information

Salutation (Mr/Ms/Dr): _____ Surname: _____ Given name: _____

Type of membership and membership no. (if applicable): _____

Designation: _____ Company: _____

Billable address: _____

Office no.: _____ Mobile no.: _____

Email address: _____

Registered under: Company / self sponsored How did you find out about this? _____
(circle or highlight the most appropriate answer)

Methods of Payment

1. By Online Payment

Please submit your registration online and make payment via credit card at www.rics.org/SEAevents

2. By Cheque

Please mail the crossed cheque made payable in Malaysian Ringgit to "RICS INTERNATIONAL LTD" and attach along with the completed registration form to Mr Chong Yee Seng at Suite 25, Axiata Tower Level 31, 9 Jalan Stesen Sentral 5, Kuala Lumpur Sentral, 50470 Kuala Lumpur, Malaysia

3. By Bank Deposit

Please deposit to the following bank account and email the deposit slip along with the completed registration form to SEA@rics.org

Payee: RICS International Limited

Name of Bank: HSBC Bank Malaysia Berhad

Bank Address: KLH main office, No 2, Leboh Ampang, 50100 Kuala Lumpur

Account No: 105-351621101

Swift Code: HBMBMYKL

Remarks

- The organiser reserves the right to cancel or reschedule the function at their discretion.
- You will receive an e-mail notification from the RICS office confirming your registration status. You are advised to call RICS office (+65 6812 8173) to confirm your registration status if you have not received an e-mail confirmation prior to the event.
- Should the participant(s) be unable to attend, a substitute delegate is always welcome. Full substitution communicated in writing is allowed up to 72 hours before the event first commences and is only accepted after organiser's acknowledgment. Please note that there will be no refund or cancellation upon registration.
- Please make sure the exact amount is deposited as no change or refund will be provided.
- Incomplete and wrongly completed registration form will not be processed.
- Attendance certificates will not be issued for non RICS training events.
- All practising RICS members are required to complete and log at least 20 hours of CPD (Continuing Professional Development) online each year. Visit www.rics.org/cpd today.

Data Protection Policy

RICS will always make sure you receive compulsory communications such as those relating to the administration of your membership, renewal notices, regulation and conduct, practice and guidance notes and AGM information.

Furthermore, RICS would like to use the contact details that you have provided to us in relation to the communications described below (including by email/telephone, where appropriate). Please tick the relevant boxes below:

If you **do not wish** to receive additional communications from RICS about membership and the profession, tick here

If you **do not wish** to receive additional communications from RICS about RICS conferences, events, products, services and training (some of which may complement your CPD requirements), tick here

If you **do not wish** to receive additional communications from RICS detailing offers from third parties with whom we have negotiated special deals for members, tick here