

9TH ANNUAL
MODULAR & PREFABRICATION
CONSTRUCTION

REDEFINING INTEGRATED MODULAR
CONSTRUCTION IN DIGITAL DISRUPTION WAVE

7th - 8th JULY 2021 | VIRTUAL CONFERENCE



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Redefining integrated modular construction in digital disruption wave

7th - 8th July 2021 | Virtual Conference

"We wanted to demonstrate that modular building can do more than just harness the efficiencies of the factory. It can produce a graceful and iconic tower. And yes, it can do so at the rate of an entire floor a day."

-Danny Forster, President and Founder of Danny Forster & Architecture

EVENT OVERVIEW

A digital disruption wave is hitting all industry sectors including construction and it is undoubtable that modular constructions can go hand-in-hand with technological development. The basis of volumetric modular systems, or prefabricated construction, is the initial digital 3D design and the ability to utilise Building Information Modelling (BIM) to ensure the building is suitable for the planned location and design requirements. It is also behind the stackable modules used in several storey homes or larger industrial buildings, including hotels and office blocks.

The Clement Canopy project in Singapore has set a new record to be the tallest modular building in the world by reducing onsite waste by 70% and offsite around 30% with a central materials and logistics platform. The total lifting operation is scheduled to take about 14 months, projected to be completed by the end of 2020. Under Singapore's land-sale requirements, 65% of the superstructure has to be built using reinforced concrete PPVC modules.

McKinsey & Company calculated that, the market value for modular in new real-estate construction alone could reach \$130 billion in Europe and the United States by 2030, delivering annual cost savings of \$22 billion. In many countries, modular construction is still very much an outlier but there are strong signs of what could be a genuine broad-scale disruption in the making. It is already drawing in new competitors—and it will most likely create new winners and losers across the entire real estate and construction ecosystem.

Join us at **9th Annual Modular & Prefabrication Construction by Trueventus** to earn insightful knowledge and fruitful discussion on understanding emerging construction technologies, including robotics, 3D imaging and even the use of RFID-BIM which are becoming increasingly leveraged to aid the design and development of modular construction. Those technological capabilities are enhanced, sped up and become more cost-effective and sustainable, when utilised in a controlled by factory setting.

WHY YOU CANNOT MISS THIS EVENT

- Learn how to enhance the prefab buildings design with an architectural approach
- Develop the right digital manufacturing line for precast modules
- Increase the efficiencies of modular construction with integrated supply chain system
- Understand the tendering and contracting system in modular construction
- Take advantage of the deployment of IoT, PPVC, DfMA, RFID-BIM, VDC, IDD, and prefab data center for off-site construction
- Exploring the applications of wood concrete composite panels, mass engineered timber, and steel concrete composite systems

WHO SHOULD ATTEND?

This event is targeted but not limited to:

- CEOs, CIOs, & COOs
- Chief Construction Officers
- Chief Manufacturing Officers
- VPs/ Directors/ Heads/ General Managers/ Managers of:
 - Construction
 - Modular Construction
 - Offsite Construction
 - Offsite Manufacturing
 - Operations
 - Project Management
 - EPC
 - Offsite & Prefabrication
 - Civil Engineering
 - Structural Engineering
 - Project Engineering
 - Property Development
 - Quantity Surveying
 - Infrastructure
 - Drafting Design
 - Architecture
 - Drafting Design
 - On-site Delivery
 - Procurement
 - Strategic Sourcing

From the following industries:

- Government entities
- Construction companies
- Real Estate developers
- Contractors
- Building Materials Suppliers
- Building Service Providers
- Technology solution providers
- Design & Architecture firms
- Construction Project Management firms
- Real Estate consultants
- Transportation & Logistics Service Providers
- Other industries involve in new property development, which can benefit from off-site construction, such as Healthcare, Hospitality, Education and Retail.

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FEATURING PRESENTATION AND CASE STUDIES BY DISTINGUISHED SPEAKERS



Ramamoorthy Rajendran
Managing Partner-SEA
Arth Design Build, Singapore



Aurélie Cleraux
Head of Modular Construction
& Innovation
Bouygues Batimen
International, France



Waco Tao
CEO & Co-Founder
PowerHouse Homes &
Models Inc, Australia



Joel Hutchines
Chief Executive Officer
Splash Modular Inc, Canada



Luca Fontana
Chief Executive, Project &
Construction Management,
Asia Pacific
AECOM, Singapore



Claire Vervaart
Projects Director
Bentley Workspaces,
Australia



Mohammad Yasser Baaj
Vice President
DuBox Precast Concrete
Products Industrial, UAE



Amit Barde
Head - Precast Design
Larsen & Toubro, India



Kevin Hill
Managing Director
Venturer Pte Ltd, Singapore



Ben Wernick
Managing Director
Wernick Construction, UK



Ian Ambrose
Managing Director
SPACE|MODULAR, UK



Dr Sreenivasan Sreenath
Technical Director
Lee Choon Holdings Limited,
Singapore



Matthew Goff
Managing Director
Thurston Group Limited, UK



Alex Hughes
Director of DfMA
HTA Design LLP, UK



Hamsa Vardhan
Founder Director
Esthete Designers & Builders
Pvt Ltd, India



Aditya Kapoor
Managing Director
Modern Prefab Systems Pvt
Ltd, India



Igor Kebel
Co-Founder & Partner
XO-Projects, Australia



Ricardo Pereira
BIM Coordinator, Discipline
Manager
LT Build Ltd, UK



Robert Coorey
Co-Founder
ArchiStar.ai, Australia



Jarrod Waring
CEO
Fleetwood, Australia



Soh Tan Ling
Project Director
Qingjian International,
Singapore



Arvind Mohan
Project Director
Wood, Singapore



Roald van der Blij
Managing Director
CD20 Building Systems,
Netherlands



Alberto Sanchez
Head of Planning (Group
Operational Assurance and
Performance)
Lendlease, Australia



Dominic Boyes
Head of Design: AMF
Volumetric Residential
Laing O'Rourke, UK



Paul Bilbie
Group Director of Operations
TopHat, UK

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CONFERENCE AT A GLANCE

Day One: Wednesday 7th July 2021

- 0800 Registration**
- 0850 Opening keynote address**
- 0900 Plenary One**
Advanced prefab specification: Mastering complex building design with high-skilled architectural capability
Ramamoorthy Rajendran, Managing Partner-SEA **Arth Design Build, Singapore**
- 0945 Plenary Two**
Integrated modular construction: Streamlining the use of digital platform across design, manufacturing, and the supply chain
Joel Hutchines, Chief Executive Officer **Splash Modular Inc, Canada**
- 1030 Speed networking**
- 1045 Morning break**
- 1115 Plenary Three**
The re-emergence of vertically integrated supply chain: Shaping lean production thinking and cross-disciplinary integration
Paul Bilbie, Group Director of Operations **TopHat, UK**
- 1200 Plenary Four**
Capturing the full visualization of digital manufacturing
Mohammad Yasser Baaj, Vice President **DuBox Precast Concrete Products Industrial, UAE**
- 1245 Networking luncheon**

Stream 1 – Project Development	Stream 2 – Prefab Applications	Stream 3 – Integrated Construction
<p>1400 Session One Choosing the right building type for modular construction investment</p> <ul style="list-style-type: none"> • Assessing the building value added beyond the project level • Assessing the building value across construction portfolios and asset lifecycles • Reducing failures rates and more reliable asset performance <p>Ben Wernick Managing Director Wernick Construction, UK</p>	<p>1400 Session One Ensuring volumetric prefab production with high quality-controlled factory</p> <ul style="list-style-type: none"> • Increasing the reliability with higher quality finishing • Sequence of work can be planned more efficiently with better logistics coordination • Reducing construction and installation activities and manpower from the site <p>Aditya Kapoor Managing Director Modern Prefab Systems Pvt Ltd, India</p>	<p>1400 Session One Construction Robotics: Moving towards machine-oriented construction project</p> <ul style="list-style-type: none"> • Smart robots employ imaging technology • Combining the strengths of human supervision with multiple technologies • Conduct surveillance, surveying, and inspection <p>Luca Fontana Chief Executive, Project & Construction Management Asia Pacific AECOM, Singapore</p>
<p>1445 Session Two Exploring the blurred area of tendering and contracting in modular construction and project management</p> <ul style="list-style-type: none"> • Innovating contracting models with balanced risk-sharing • Exploring smart contract with automated QR-read payment • Defining multi-party contract with clear accountabilities <p>Alberto Sanchez Head of Planning (Group Operational Assurance and Performance) Lendlease, Australia</p>	<p>1445 Session Two Incorporating component knowledge to architectural knowledge for advanced prefab design</p> <ul style="list-style-type: none"> • Using generative design for prefab design • Re-configuring an established system to link together existing components in a new way • Enable faster design to construction timelines <p>Robert Coorey Co-Founder ArchiStar.ai, Australia</p>	<p>1445 Session Two Installing prefab data centers in off-site construction</p> <ul style="list-style-type: none"> • Deploying data centres swiftly with predictable performance, flexible maintenance and future scalability • Enabling a shorter planning and designing period by using system structure • Realizing multi-level refined energy consumption management of data centers <p>Amit Barde Head - Precast Design Larsen & Toubro, India</p>
<p>1530 Afternoon break</p>	<p>1530 Afternoon break</p>	<p>1530 Afternoon break</p>
<p>1600 Session Three Ensuring the significant quality enhancement of prefab construction</p> <ul style="list-style-type: none"> • Controlling the bulk of fabrication and assembly of building components in manufacturing stage • Allowing for more effective quality assurance • Integrating the processes of design, manufacturing, and construction more tightly <p>Matthew Goff Managing Director Thurston Group Limited, UK</p>	<p>1600 Session Three Overcoming the challenges of connecting electrical system in prefabrication construction</p> <ul style="list-style-type: none"> • The attitudes to feasibility of piping prefabrication • Building information modelling (BIM) promotes the adoption of piping prefabrication • The low level of standardization of design <p>Arvind Mohan Project Director Wood, Singapore</p>	<p>1600 Session Three Adopting IoT to transform modular construction pipeline</p> <ul style="list-style-type: none"> • Hyper connected smart sites will be gathered by sensors • Accessing information systems that give a complete picture of the project's status and the steps that need to be taken next • Data generated by BIM, ERP, or a project management system (PMS) can be linked at an early stage <p>Ian Ambrose Managing Director SPACE MODULAR, UK</p>
<p>1645 Session Four Achieving composite action by deploying a variety of floor systems in constructing modular car park</p> <ul style="list-style-type: none"> • Breaking out alternate cores of the precast units and filling with in-situ concrete for the effective width of the slab • Using composite beam with composite pre-cast concrete slab and topping • Applying steel deck with composite beams (Speaker to be advised) 	<p>1645 Session Four Employing PPVC to increase the efficiency of construction process</p> <ul style="list-style-type: none"> • Establishing the productivity of PPVC during the installation process • The hindrance and problems encountered throughout the erection of PPVC • The delivery and unloading process of PPVC modules at the construction site <p>Aurélie Cleraux Head of Modular Construction & Innovation Bouygues Batimen International, France</p>	<p>1645 Session Four Accelerating the process of manufacturing by implementing DfMA in pre-fabrication stage</p> <ul style="list-style-type: none"> • Combines DfMA with parametric design of BIM to develop the concept and process of DFMA-oriented parametric design • Exploring and developing precast component creation process based on family template and DFMA • DFMA-oriented parametric design needs to be constantly improved according to its subsequent actual use <p>Alex Hughes Director of DfMA HTA Design LLP, UK</p>
<p>1730 End of day one</p>	<p>1730 End of day one</p>	<p>1730 End of day one</p>

For further details, contact

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Day Two: Thursday 8th July 2021

- 0830 Registration**
- 0850 Opening keynote address**
- 0900 Plenary One**
Advancing BIM for project forecast and production optimization
Dominic Boyes Head of Design: AMF Volumetric Residential **Laing O'Rourke, UK**
- 0945 Plenary Two**
Upskilling BIM modellers to develop top-quality modular building designs with data-enhanced insights
Igor Kebel Co-Founder & Partner **XO-Projects, Australia**
- 1030 Speed networking**
- 1045 Morning break**
- 1115 Plenary Three**
Re-evaluating initial and transportation cost in prefabrication construction
Jarrold Waring CEO **Fleetwood, Australia**
- 1200 Plenary Four**
Prefabrication construction challenge: Upgrading machine-oriented labour skills
Roald van der Blij Managing Director **CD20 Building Systems, Netherlands**
- 1245 Networking luncheon**

Stream 1 – Project Development	Stream 2 – Prefab Applications	Stream 3 – Integrated Construction
<p>1400 Session One Discovering new opportunities in residential modular construction for affordable housing</p> <ul style="list-style-type: none"> Highlighting crucial components in the connection between economic conditions, public policy, and affordable housing development Construction and land acquisition costs are frequently cited as primary drivers of multi-family housing development How efficiencies in modular construction present opportunities for addressing specific challenges in developing affordable housing <p>Waco Tao Founder & CEO PowerHouse Homes, Australia</p>	<p>1400 Session One Exploring wood-concrete-composite panels system for seismic region</p> <ul style="list-style-type: none"> Exploring an economical and ecological alternative with a reinforced concrete slab Providing the aesthetics of a finished wood ceiling Enhancing the performance of the composite between the concrete layer and the wood members <p>Kevin Hill Managing Director Venturer Pte Ltd, Singapore</p>	<p>1400 Session One Integrating Virtual Design Construction (VDC) and Integrated Digital Delivery (IDD) to ensure project delivery control</p> <ul style="list-style-type: none"> Integrating work processes to manage the transfer of information Managing various inputs from design consultants, clients, specialists and contractors, as well as fabricators Enabling visualisation of how a large-scale construction project <p>Ricardo Pereira BIM Coordinator, Discipline Manager LT Build Ltd, UK</p>
<p>1445 Session Two Analyzing lean manufacturing production for complex facilities building</p> <ul style="list-style-type: none"> Focusing and committing to the lean modular priorities and functions Aligning and connecting all stakeholders Removing non-value add activities and stretch for originality <p>Claire Vervaart Projects Director Bentley Workspaces, Australia</p>	<p>1445 Session Two Optimizing the application of Mass Engineered Timber (MET) for modular buildings</p> <ul style="list-style-type: none"> Improving structural integrity for the construction of various types of developments Adopting the DfMA concept as building components are prefabricated offsite in factories Exploring CLT, glulam and LVL <p>(Speaker to be advised)</p>	<p>1445 Session Two Maximizing the advantages of using 3D printer for prototype on formwork</p> <ul style="list-style-type: none"> Improving the quality and unwavering quality of a structure Reduction of time and work for the establishment of utilities Reducing the quantity of the workforce associated with development <p>Chaillan Gilles Alain Marius Deputy Engineering Director Dragages Singapore Pte Ltd, Singapore</p>
<p>1530 Afternoon break</p>	<p>1530 Afternoon break</p>	<p>1530 Afternoon break</p>
<p>1600 Session Three Overcoming the challenges of drainage design aspects for precast bathroom pods</p> <ul style="list-style-type: none"> Using P trap toilets and connecting them to the stack above the slab Connecting basin wastes to the stack above ground with 40mm PVC Using a single strip drain servicing both the shower and main bathroom area <p>(Speaker to be advised)</p>	<p>1600 Session Three Highlighting the necessity of the connections between the prefab components</p> <ul style="list-style-type: none"> Ensuring the stability of the building structure under these natural and manmade loads Involving laboratory tests and full-scale tests on the individual components Developing design standards to include the design specifications and recommendations <p>Dr Sreenivasan Sreenath Technical Director Lee Choon Holdings Limited, Singapore</p>	<p>1600 Session Three The Construction Contractor: How Prefab Technology Can Fill the Trust Deficit</p> <ul style="list-style-type: none"> Eliminating the problems inherent in 2D Panel-based construction Employing the least possible number of qualified engineers and trained technicians Offering the inherent benefits of concrete <p>Hamsa Vardhan Founder Director Esthete Designers & Builders Pvt Ltd, India</p>
<p>1645 Session Four Exploring steel concrete composite systems for high-rise modular buildings</p> <ul style="list-style-type: none"> Reducing the weight of the module without compromising the strength and stiffness Using high strength concrete as an infill material for tubular columns Reducing the number of joints and columns for fast track construction <p>Soh Tan Ling Project Director Qingjian International, Singapore</p>	<p>1645 Session Four Utilizing precast concrete 3D rendering technology</p> <ul style="list-style-type: none"> Quickly and easily spot issues in structural design Offer compelling material to encourage investment or secure financing Predict exactly how the finished structure will appear once it is finished <p>(Speaker to be advised)</p>	<p>1645 Session Four Employing RFID-BIM to manage lifecycle information related to open-building projects</p> <ul style="list-style-type: none"> Creating the right environment for the development of new business models Unlocking multiple values that are otherwise dissipated in the system Enhancing the sustainable lifecycle management of construction components radically <p>Ronan Collins Head of Project Information Management GAMUDA, Malaysia</p>
<p>1730 End of conference</p>	<p>1730 End of conference</p>	<p>1730 End of conference</p>

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COMPANY DETAILS

Name	Industry
Address	
Postcode	Country
Tel	Fax

ATTENDEE DETAILS

1	Name	Job Title
	Tel	Email
2	Name	Job Title
	Tel	Email
3	Name	Job Title
	Tel	Email
4	Name	Job Title
	Tel	Email
5	Name	Job Title
	Tel	Email

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