

Conference Agenda Day 1 - Wednesday, 24 May 2023

9:00 - 9:50: Registration

Collect your badge at the registration desk. This is your ticket to the full conference

9:50 – 9:55: Welcome Note

Sania Aziz, *Editor*, **Alain Charles Publishing**

9:55 - 10:00: Chairman Opening Remarks

Stephen Board, *Director*, **Quantum Global Solutions**

SESSION 1: The Industrial Revolution 4.0

10:00 - 10:30: Leveraging Emerging Technologies for Success

- BIM: Utilising digital modelling to improve project efficiency, reducing errors, and enabling better decision-making across the entire construction lifecycle.
- VR/AR: Enhancing project visualisation, stakeholder engagement, and communication with interactive technology that simulates and overlays digital designs onto real-world settings.
- Drones & Robotics: Increasing productivity, safety, and accuracy with unmanned vehicles and machines that can perform tasks such as surveying, inspection, and construction.

Mohammed Ragheb, *Chief Development Officer*, **Azizi Developments**

10:30 - 11:00: Modular Offerings for Quicker, Greener, and More Effective Building Solutions

- Expediting industrialisation in the construction sector by implementing modular offerings that enable faster and eco-friendly building solutions.
- Developing a productised approach to construction projects and site activities to enhance efficiency and promote the mainstream adoption of manufacturing practices.
- Adopting digital integration and the Internet of Things (IoT) to create smart buildings that are interconnected and can optimise energy consumption, operational efficiency, and user experience.

Alaa Basamh, *Senior Business Development Engineer*, **Amana Group**

11:00 - 11:30: Networking Coffee Break

Refreshments in the Technology Showcase Hall

11:30 - 12:00: Embracing IR 4.0: Transforming the MENA Construction Landscape

- Industry 4.0 in Construction: Overview, Emerging Trends, and Innovations
- Leveraging Industry 4.0: Strategies for MENA Construction Companies
- Future Outlook: Case Studies and Preparing for Disruptions in the Construction Industry

Aref Boualwan, *Chief Initiatives & Startups Officer*, **Consolidated Contractors Company**

SESSION 2: Evolution in the Digital World of Construction

12:00 - 12:30: Data-Driven Construction: Revolutionising the Built Environment

- Embracing digital transformation by transitioning from paper to data to digital ecosystems.
- Future-proofing built environments by creating adaptive infrastructure that can evolve with changing needs and demands.
- Discovering the upcoming drivers of innovation in the construction industry.

Bisrat Solomon Degefa, *Director - Head of Digital Developments*, **Gleeds**

12:30 - 13:00: Evolution from BIM to Digital Twins, AI to IoT

- Maximising efficiency and sustainability with digital twins' effective asset management, reducing maintenance costs and improving energy efficiency.
- Optimising building design and construction with BIM and generative design, increasing efficiency and reducing resource consumption.
- Gathering and analysing data with AI and IoT technologies to optimise building operations, reduce energy consumption, and improve sustainability.

Billel Dridi, *Digital Transformation Lead*, **Bureau Veritas**

13:00 - 14:00: Lunch Break

Buffet Lunch in the Technology Showcase Hall

14:00 - 14:45: Panel Discussion: Evolution in the Digital World of Construction

- Discovering why smart cities is a master concept associated with Industry 4.0 and Construction 4.0, and how it involves advanced digital technologies, innovative government models, sustainable natural resource management, renewable energies, and information technology expertise.
- Acquiring knowledge on how sensors, drones, the emergence of BIM, cloud technology, 3D printing, mobile applications, and automated vehicles can be integrated as best digital practices into your organisation.
- Leveraging technology for data collection, processing, and analysis during the construction process to improve operational efficiencies, collaboration, and employee safety.

Moderator: Michael Davies, *Country Director*, **Quantum Global Solutions**

Dr. Marwan Abu Ebeid, *Digital Construction Lead*, **Turner Construction International**

Yasmina Kridly, *BIM Manager*, **Jacobs**

Maged Elhawary, *Adjunct Lecturer*, **Heriot Watt University**

Ayad Chammas, *Partner*, **Nirman Ventures**

SESSION 3: Selecting Optimal Technology for AEC

14:45 - 15:15: Construction in the Digital Age: Trends and Tools for Staying Ahead

- Discussing the importance of digitalisation in the construction industry.
- Investigating the role of technology in streamlining workflows and improving efficiency.
- Exploring the latest trends and developments in this field, and share best practices for selecting the right technology for the various types of organisations delivering and operating built assets.

Nicky Dobreanu, *Branch Director*, **Omnium International Ltd**

15:15 - 15:45: Networking Coffee Break

Refreshments in the Technology Showcase Hall

15:45 - 16:15: Accelerating Digital Transformation for Efficient & Sustainable Buildings

- Discuss how sustainability has huge expectations to unravel untapped energy savings in construction projects
- Learn about different project planning, costing, real-time construction, and carbon emission monitoring, tools that can have 20% savings throughout the project lifespan
- Explore how network off fully digitised built assets, can help communities to reap the wider social benefits

Mohammed Faisal Aziz, *Principal Segment Consultant – Digital Buildings*, **Schneider Electric**

16:15 - 17:00: Panel Discussion: Selecting Optimal Technology for AEC

- Investigating how to embed holistic and impactful technologies in the construction projects due to their high level of complexity, long investment life cycle, and high costs.
- Learning about selecting the right transformation and optimization technology, along with the resilient solutions available in the market, and how to integrate them into your organisation.
- Discussing how in-house technology development necessitates a thorough evaluation of company resources, expert resources, and equipment to be acquired.

Moderator: Michael Davies, *Country Director*, **Quantum Global Solutions**

Ahmad Faeq M Salih, *Senior Director - Knowledge Management & Operational Excellence*, **Khatib & Alami PTE**

Syed Saud, *Director- Systems Projects Delivery*, **Red Sea Global**

Ayad Chammas, *Partner*, **Nirman Ventures**

17:00 - 17:05: Chairperson's Day 1 Closing Remarks

Stephen Board, *Director*, **Quantum Global Solutions**

-end of Day 1

Conference Agenda Day 2 - Thursday, 25 May 2023

9:00 - 9:50: Registration

If you didn't attend Day 1, collect your badge at the registration desk.

9:50 – 9:55: Welcome Note

Sania Aziz, *Editor*, **Alain Charles Publishing**

9:55 - 10:00: Chairman Opening Remarks

Michael Davies, *Country Director*, **Quantum Global Solutions**

SESSION 4: Effective & Efficient Project Delivery

10:00 - 10:30: Guidelines towards Effective Project Delivery from Initiation to Handing Over

- Planning with clarity: Setting a clear project vision, create a comprehensive plan with timelines, milestones, and budget.
- Mitigating risks: Identifying key challenges and risks, developing strategies to mitigate them, and communicating changes to stakeholders.
- Monitoring progress: Monitoring project progress, evaluating success against milestones and project objectives, and adjusting plans as needed.

Mohamed Ahmed Elattar, *Director - Planning & Cost Control*, **Dubai Holding Real Estate**

10:30 - 11:00: Data Validation and Consistency: From Manual Reactive to an Automated Proactive Approach

- Exploring different data validation methods, including reactive feedback, proactive assessment, manual checks, and automated processes.
- Implementing proactive data quality measures such as data export and visualisation techniques to identify potential issues before they affect model performance.
- Utilising advanced automated methods, including custom tools and event-driven programming, to ensure data consistency and prevent invalid data entries.

Mateusz Lukasiewicz, *Digital Projects Manager*, **KEO International Consultants**

11:00 - 11:30: Networking Coffee Break

Refreshments in the Technology Showcase Hall

11:30 - 12:00: BIM 4.0 Connect the Disconnect

- Integrate advanced technologies, such as AI and IoT to enable seamless data exchange and harmonisation for a more efficient, sustainable, and resilient built environment with BIM 4.0.
- Standardise object and attribute management and leverage international classification systems, such as Omniclass and Uniclass, to reduce errors and delays and enable seamless information exchange across vendor data sources.
- Foster collaboration and improve project outcomes with BIM 4.0 by creating a connected ecosystem that maps processes, leverages vendor data sources, and other reference data sources to create a comprehensive and accurate representation of the built environment.

Mohammad Aldawood, *Associate Director - Building Information Modelling*, **Red Sea Global**

12:00 - 12:45: Panel Discussion: Effective & Efficient Project Delivery

- Accessing new guidelines for smooth collaboration with various stakeholders of the project at every stage of construction by having a step-by-step roadmap for completion of work on time and on budget.
- Understanding the objective of effective training and hiring the right skillset that can be an outstanding asset for your projects.
- Analysing construction risk management strategies, such as project management process, financial, legal, safety, or environmental risks, to develop contingency plans to review and modify everything required for the entire project.

Moderator: Stephen Board, *Director*, **Quantum Global Solutions**

Amer Kharbush, *Executive Director - Program & Project Management*, **ROSHN**

Billel Dridi, *Digital Transformation Lead*, **Bureau Veritas**

Laura Dianu, *Design Manager*, **Select Group**

12:45 - 13:45: Lunch Break

Buffet Lunch in the Technology Showcase Hall

SESSION 5: Sustainable Construction Technologies

13:45 – 14:15: Role of Supply Chain in Sustainable Construction

- Reducing project delays: Minimising delays caused by material shortages, supplier issues, or logistical inefficiencies, through timely and reliable supply chain management.
- Controlling costs: Efficient supply chain management can reduce construction costs, optimise inventory, and minimise waste, leading to higher profits and lower project expenses.
- Improving quality: Reliable and high-quality materials delivered on time and in the right quantities can lead to improved project outcomes, including customer satisfaction and better project performance.

Eng. Abdulrahman Omar Ali Alkholy, *Senior Principal Engineer*, **Ministry of Energy & Infrastructure**

14:15 - 14:45: Sustainability Stewardship in the Real Estate Sector

- Decarbonising Real Estate: Reducing carbon footprint and achieving net-zero emissions.
- Technology for Sustainability: Utilising smart systems, renewables and green materials.
- Driving Climate Action in Real Estate: Developing practical and effective strategies to promote energy-efficient building designs, adopting renewable energy sources, and incentivising sustainable practices.

Dr. P.R. Jagannathan, *Senior General Manager-Sustainability*, **Sobha Realty**

14:45 - 15:30: Panel Discussion: Sustainable Construction Technologies

- Recognising how green house technology is making buildings more energy-efficient and sustainable, resulting in a lower carbon footprint and less environmental effect.
- Creating a measurable approach in organisation by using solar power, prefabricated and biodegradable materials, zero-energy building design and sustainable resource sourcing in your upcoming projects.
- Exploring the need for sustainable models in the future of AEC Sector for combating climate risks, such as flooding and high-magnitude weather events.

Moderator: Stephen Board, *Director*, **Quantum Global Solutions**

Omar Ghalib Al-Bustami, *Head of Development*, **Majid Al Futtaim**

Tamara Bajic, *Associate Director- Strategy and Advisory*, **AESG**

Nicky Dobreanu, *Branch Director*, **Omnium International Ltd**

Dr. P.R. Jagannathan, *Senior General Manager-Sustainability*, **Sobha Realty**

15:30 - 15:35: Chairperson's Closing Remarks

Michael Davies, *Country Director*, **Quantum Global Solutions**

- end of conference