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|  | **Tuesday 24 October: Main Conference Day** |
| 08.00 | **Registration and networking** |
|  | **Track 1: Digital and Sustainable Delivery** |
|  | **The Keynotes** |
| 09.30 | **WELCOME: Conference Chairman****Rob Jones**, Partner, **Ventures Connect** |
| 09.40 | **Keynote Panel: Giga Project Sustainability Ambition & Achievability** Sustainability meaning and aspirations for major developers across project design, construction, procurement and operations. What is required by them to action net zero in structured way such as baseline calculation and is it achievable? What tops the risk register such as availability of supply chain data and lack of green infrastructure and how can these challenges be offset?*Led by:* ***Hani Adnan Abdel Razeq****, Associate Director,* ***AESG****In conversation with:****Abdulaziz Al Shareef****, General Manager of Operations and Programs,* ***National Housing Company******Ana Hudson****, Head of Sustainability,* ***SEVEN******Julie Alexander****, Smart Cities Director,* ***Diriyah Company*** ***Waleed AlGhamdi****, Director of Sustainability,* ***ROSHN Group*** |
| 10.10 | **Panel: Beating the Supply Chain Crunch Through Technology**The speed and ambition of the region’s giga projects is outpacing the market’s supply of materials, human capital and general time/cost resources. To achieve Saudi’s vision, all stakeholders must collaborate. The Solution: A new model that is open to cooperation. How can technology and new ways of working help beat the supply chain crunch by empowering collaboration as well as provide visibility and predictability on supply chain planning, contract management and risk?Led by:***Craig Garrett****, Digital Construction Manager KSA,* ***ALEC Engineering & Contracting****In conversation with:****Aymen El Waleedi****, Executive Director - Projects Development,* ***Rua Al Madinah******Mohamed Radi,*** *VP Digital Transformation and Shared Services****, Shurfah Holding******Paul Saba,*** *Corporate Business Transformation Manager****, Nesma & Partners******Wees Abraham****, VP–Operations and Board Member,* ***SHADE CORPORATION***  |
| 10.40 | **Panel: How to Drive Insight from Data Across the Business for Competitive Advantage**As data becomes an increasingly strategic issue for the construction and real estate sectors, organisations are dealing with increasing amounts of data – structured, unstructured, across multiple sites, silos and hybrid environments – but how can proper data strategy help reduce the chaos? This session deals with 3 key issues 1. What key data is being collected and why 2. How it is being collected and put together 3. How organisations can make sense of that data for competitive advantage including AI and RPA powered solutions.*Led by:****Rob Jones****, Partner,* ***Ventures Connect****In conversation with:****Reda Bin Abdoun****, Information Technology Director,* ***Ajdan Real Estate Development******Theofanis Fanourakis****, Digital Services Director,* ***Diriyah Company******Muhammad Farrukh Munir****, Associate Director – IT Enterprise Architecture,* ***ROSHN Group******Dr. Zaid Alyami****, Advisor,* ***Ministry of Transportation and Logistics Services****, Saudi Arabia* |
| 11.10 | Morning Networking Break |
| 11.40 | **Powered by:**Image result for oracle**Remote Quality Management of Giga Projects*****Sherief Elabd,*** *Director of Industry Strategy and Innovation,* ***Oracle Construction and Engineering*** |  |
| 11.5512.0512.15 | **Quick Case Studies: 3D, Realistic and Immersive Reality Site Capture – High Accuracy Lidar, GIS, VR, AI And Drones**Reality site capture has rapidly accelerated as a valuable tool in quality, H&S and asset monitoring. With advancements in photogrammetry, high accuracy Lidar, AI and virtual realities – the industry is getting close to actual real-time, reality capture with phenomenal accuracy and quality to desktop, mobile or fully immersive environments. This session reviews the current status of reality site capture through a series of 10 min. talks by real users based on giga projects, power plants and residential projects.**Use cases of drone reality capture for jobsite management and facility inspection*****Peter Park****, CEO & Co-founder,* ***Angelswing*****Story 2:****Q&A Session** |
| 12.2512.3512.4512.55 | **Quick Case Studies: ERP and PMIS Transformation**Digital transformation promises to reap benefits for organisations that can fully integrate, automate and digitalise their processes, providing end-to-end visibility and control of business and projects. This session showcases 3 recent ERP and PMIS implementations across the industry value chain with obvious project cost, time and efficiency gains.**Integrating Field Management App With PMIS*****Vitaly Berezka****, Regional Head Central Asia, MEAN & APAC,* ***PlanRadar*** **Project Success Using PMIS in Action** ***Waleed Salaheldin Hassan****, Director, Projects Control,* ***AWJ Holding Company******Siraj Maeen****,**Leading PMIS & DC,* ***Rua Al Madinah*****Q&A Session** |
| 13.0513.1513.2513.3513.45 | **Quick Case Studies: Next Level BIM** BIM is the key to design and construction efficiencies, but there is a lack of maturity in application that is limiting the benefits of the full data model, particularly between departments (planning, procurement, quantity, engineering and construction) and across the value chain. These short case studies showcase real examples and experiences of 4D+ projects and what needs to happen to take the next leap in schedule, cost, quantity, asset management and sustainability dimensions.**Automated Cost and Carbon Estimating Using BIM 5D*****Tolis Chatzisymeon****, CEO,* ***Nomitech*****Harnessing the Full Power of BIM Across All Construction Disciplines*****Fawwaz Hammad****, Technical Office Director,* ***Al Bawani*****Reserved****Q&A Session****Effective Construction Site Management Through a Unified Data Workflow**The future of a digitised job site is connected not with a single technology that solves a specific customer task but with the synergy of digital services: laser scanning, drone survey, photo 360 and, of course, onsite BIM & cloud CDE that form the digital data workflow needed for enhanced collaboration and a single source of truth creation for all construction works. Find out how with specific use-cases presented.***Petr Manin****, Regional Director MENA,* ***Signax*** |
| 13.55 | Networking lunch |
| 15.00 | **Real Life Digital Twin***Through real-world examples, we will demonstrate how digital twins are empowering organizations to achieve their ESG goals by optimizing their environmental performance, enhancing their social impact, and improving their corporate governance practices.****Wissam Hijazi****, Senior Director Innovation MENA,* ***EllisDon*** |
| 15.10 | **Fireside Talk: Connecting Siloed Data Across Departments and Asset Life Cycle** Even though efficiency gains are obvious, the ability to connect and share data for upstream or downstream insight across different departments and systems remains a challenge from a mindset and vendor perspective. From master planning to operations, enhancing the interconnectivity of BIM, CDEs, document control systems, BMS, CAFMs and digital twins and having a clear data strategy that aligns department objectives will be a game changer. Seizing the opportunity for collaboration and open data sharing will propel operational productivity – so what is stopping us? *Led by:****Rob Jones****, Partner,* ***Ventures Connect****In conversation with:****Fadi Kobersy,*** *Head of Sales & Customer Success for the MENA Region,* ***RIB Software******Arsen Safaryan****, Director Information & Data Management,* ***SEVEN*** |
| 15.25 | **Scaling Up New Modular and Precast** Exploring the benefits of the latest precast, module and formwork solutions in the market and as an industry how to embed offsite approaches at an organisational level to ensure economic feasibility and resource availability/capability. *Led by:****Bandar Alkahlan****, Director and a Researcher at the National Center for Building and Construction Technology,* ***King Abdulaziz City for Science & Technology (KACST)****In conversation with:****Nada Ibrahim Mohammed****, Senior Director – Master Planning & Design,* ***Saudi Downtown Company******Ali Ali Shash****, Professor, Construction Engineering & Management, College of Environmental Design,* ***KFUPM******Amana Group*** |
| 15.55 | **Fireside chat: Saudi Circular Economy and its Contribution to Real Estate**Reduce. Reuse. Recycle – understand the principles of the circular economy applied to the built environment and the quick wins for the industry based on Saudi Arabia’s unique on-going initiatives Ensure that your organisation is ready for upcoming policies and explore innovative examples of upcycling and resource reuse in the industry.**Tenderd** |
| 16.15 | **CxO Panel: Saudi Future Construction**How are mega projects impacting your business – particularly around planning, resources and supply chain? What kind of technologies/new approaches/solutions will have the biggest potential of success in helping the kingdom deliver these projects? Which ones are you investing in/pursuing and what efficiencies does your business expect?*in conversation with:****Eng. Akram Omar****, Chief Development Officer,* ***Awj Holding******Sultan Batterjee****, President, CEO,* ***Lifestyle Developers, IHCC******Dr. Paul J McKeown****, Chief Executive Officer,* ***HanmiGlobal Saudi******Mohamed Magdi****, Chief Executive Officer,* ***DAC Group*** |
| 16.45 | Afternoon Networking Break |
| 17.30 | Close of Conference |

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|  | **24 October: Main Conference Day** |
| 08.00 | **Registration and networking** |
|  | **Track 2: Smart Cities** |
|  | **The Keynotes** |
| 09.30 | **WELCOME: Conference Chairman** |
| 09.4009.50 | **Future City Keynotes**Smart Cities should redefine how people, nature, industry, goods and services interact. To succeed, governments should be an enabler for the vision, its financing and technology whilst at the same time allowing entrepreneurs and far-sighted businesses to innovate. These keynotes will outline the work being done in Saudi Arabia to build a number of smart cities and the opportunities these will create. ***TBC******Fawaz Nashar****, Deputy Mayor for Digital Transformation,* ***Makkah Municipality***  |
| 10.00 | **Industry Keynote: International Smart City Exemplar**This scene-setting keynote presentation draws on the experiences of an international smart city. It describes how the city is smart, the efficiencies gained, how different stakeholders were engaged, and the potential returns and benefits that can be gained from the long-term operation of a technically advanced smart city. It also considers future steps to ensure that the smart city remains smart and at the forefront of innovative design that benefits all – residents, government and businesses.  |
| 10.15 | **Keynote Panel: Smart by Design - What Needs to be in Place for a True Smart City**Easy to claim, but complex to achieve. Smart needs to be the ethos of a true smart, sustainable city, community or district. This means the foundations must be strong, and digitalisation as integral as the very build itself. This panel will explore smart city benchmarks and how to ensure the pieces for a smart city are in place from the concept phase, and with a roadmap through to hand over and how to deliver value at the operating stage.*Led by:****Ahmad Faeq M. Salih****, Senior Director,* ***Khatib & Alami****In conversation with:****Bandar Alshahrani****, Head Digital and Innovation at PIF Projects,* ***Public Investment Fund******Ioannis Danikas****, Associate Director Smart Cities,* ***Diriyah Company******Mohammed Elweshawy****, Senior Projects Director,* ***Shomoul Holding******Ramez AlFayez****, Acting CIO and VP of Smart City,* ***KAFD*** |
| 10.50 | **Fireside talk: Smarting a Brownfield Site**Making an existing, thriving metropolis smart comes with many additional and unique challenges. It requires retrofits and remedial work, digging through existing infrastructure, local authority engagement and scaling technology to a city the size of Riyadh or Khobar is expensive. This session will explore what needs to be considered, what groundwork laid and the potential barriers when making an existing city smart. *In conversation with:****Laila Al Hadhrami****, Managing Director,* ***Communities Connect Cities (C3)*** |
| 11.10 | Morning Networking Break |
| 11.4011.5512.10 | **Quick Case Studies: Smart City Backbones That Power Functional Urban Efficiency**These quick-fire case studies look at some of the key frameworks required by smart cities to ensure that they flow and function efficiently, safeguarding data can be put together in one place to drive insight and value for end users and operation. **City Twins: Enabling Fully Integrated Urban Ecosystems** ***Dr. Richard J. Vestner****, Vice President, Industry Solutions,* ***Bentley Systems*****City Twins: A GIS Powered City** ***Manal El Sayed****, VP Digital Services,* ***Khatib & Alami*****City-Level Energy Management Information Systems*****Aref Abouzahr****, CEO,* ***Ark Energy*** |
| 12.25 | **Powered by:**BSI Global Supply Chain Intelligence report reveals global business ...**Panel: Benchmarks for Development: Is City Certification a Smart Investment Decision?**There are various smart building and city certifications globally, each with different benefits but all leading towards greater efficiencies, lower emissions and better quality of life for residents and users of these new, smarter urban areas. Those benefits include improved policy and decision making, leading to making it easier to attract investment and manage costs and ultimately greater sustainability. This panel will explore how to start the certification journey, why embark on it, the challenges and ultimate benefits gained. *Led by:****Rahul Shah****, Global Director, Digital Transformation Built Environment (EMEA),* ***BSI****In conversation with:****Osama Touni****, Senior Manager, Projects Sustainability,* ***ROSHN Group******Zakaria Osman****, Head of Digital Construction,* ***El Seif Engineering Contracting*** |
| 13.0013.15 | **The Future of Smart Water Infrastructure – A Digital Spotlight**Digital Water Case Study 1***Bentley Systems***Digital Water Case Study 2 |
| 13.30 | **Panel: The Future of Smart Water Infrastructure – A Digital Spotlight** Water scarce countries need smart, digital approaches to treat, supply, recycle and monitor water networks and cut down on loss and wastage. Real-time, IOT-powered data analytics delivered across high-speed networks to remote devices is one future efficient use of water in the kingdom. Smart water technology embedded in buildings and networks will also improve the treatment of waste and bring greater efficiencies to water reuse. With water one of the key pillars to a smart city, this panel will discuss how smart water networks will be shaped in future urban, water-scarce landscapes. *In conversation with:****Mushtaq Khan****, General Manager Automation & Digital Transformation,* ***National Water Company******Julio De La Rosa****, ME Strategy & Development Director, Water Business,* ***Acciona******Dr. Khaled Bin Bandar****, Water Management and Treatment Institute Sustainability and Environment,* ***KACST*** |
| 14.05 | Networking Lunch  |
| 15.0015.1015.20 | **Quick Case Studies: Smart City Systems Powering Sustainable Cities**This set of quick-fire case studies break down some of the components of a smart city. Each presentation will look at the digitalisation journey, providing insights into key aspects of a smart city with tangible examples of how they operate and the benefits they bring.**Intelligent Traffic Management: *Ahmad Alnafessah****,* GM - Institute of Smart Cities Technologie*s,* ***King Abdulaziz City for Science and Technology******Muhammad Mustafa****, Mobility & Planning Regional Director,* ***Egis***Street Lighting/ Interactive Signage/Crowd Control/Air Quality/Security/Identity/Smart Parking |
| 15.30 | **Panel: Data-Led Asset Performance Management**With the asset management concept gaining traction in KSA as a means to maximise asset value and investment planning, the ability to make good retrofit, optimisation or replacement decisions will be at the forefront. In the second part of our Asset Management focus we look at implementing performance management for improved profitability and sustainability. This session looks at how predictive tools are being used to drive condition assessment and inform investments. Understand what data is required, how to collect it and how to consume it. *In conversation with:****Irfan Soneji****, Digital & Asset Information Director,* ***AMCL******Mohammad Ali Shalan****, VP Digital Transformation,* ***Project Management Institute - Saudi Chapter******Paul Scott****, Regional Manager,* ***Turner & Townsend******Dr. Zaid Alyami****, Advisor,* ***Ministry of Transportation and Logistics Services****, Saudi Arabia* |
| 16.05 | **Fireside chat: Breaking Down Smart City Data Silos** To function efficiently and lay the groundwork to provide advanced insight, all smart cities need clear data management policies and governance in place. These set out the organisational structure, roles and responsibilities, and state clearly who can collect, store and manage this data, protecting it locally and internationally. This panel will discuss how an organisation build’s truly advanced integrated data assets, particularly as they implement advanced technologies such as GIS, AI, automation and IoT.*In conversation with:****Sherief Elabd,*** *Director of Industry Strategy and Innovation,* ***Oracle Construction and Engineering*** |
| 16.20 | **Audience Panel: Smart City Implementation and True Integration**Implementing a fit-for-purpose smart city platform for a given project is critical if the hard work up to delivery is going to result in a fully-functioning, efficient urban area – even more so when it is a large-scale project in a desert region. The smart city platform is the central point that brings together the disparate, independent systems and silos under one platform. This audience-led panel discussion will open the floor to questions and provide expert insights to cut through the contech complexities of building and operating high-quality, digitalised smart cities in Saudi Arabia.*Led by:****Dr. Michael Marriott****, Infrastructure Manager,* ***KEO International Consultants****In conversation with:****Mohammed Shah****, IT & Smart City Director,* ***Knowledge Economic City*** |
| 17.00 | Afternoon Networking Break |
| 17.30 | Close of Conference |