

10 CPD
points from



TCPAK

TOWN AND COUNTY PLANNERS ASSOCIATION OF KENYA

"Better Towns, Counties and Country"



EAST AFRICA
DIGITAL
CONSTRUCTION
2018

14-15 NOVEMBER 2018, VILLA ROSA KEMPINSKI, NAIROBI, KENYA

ORGANIZED BY:

SAIFEE

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M: + 91 992 328 5610
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and Engineering

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"Better Towns, Counties and Country"



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FROM THE PRODUCER'S DESK:

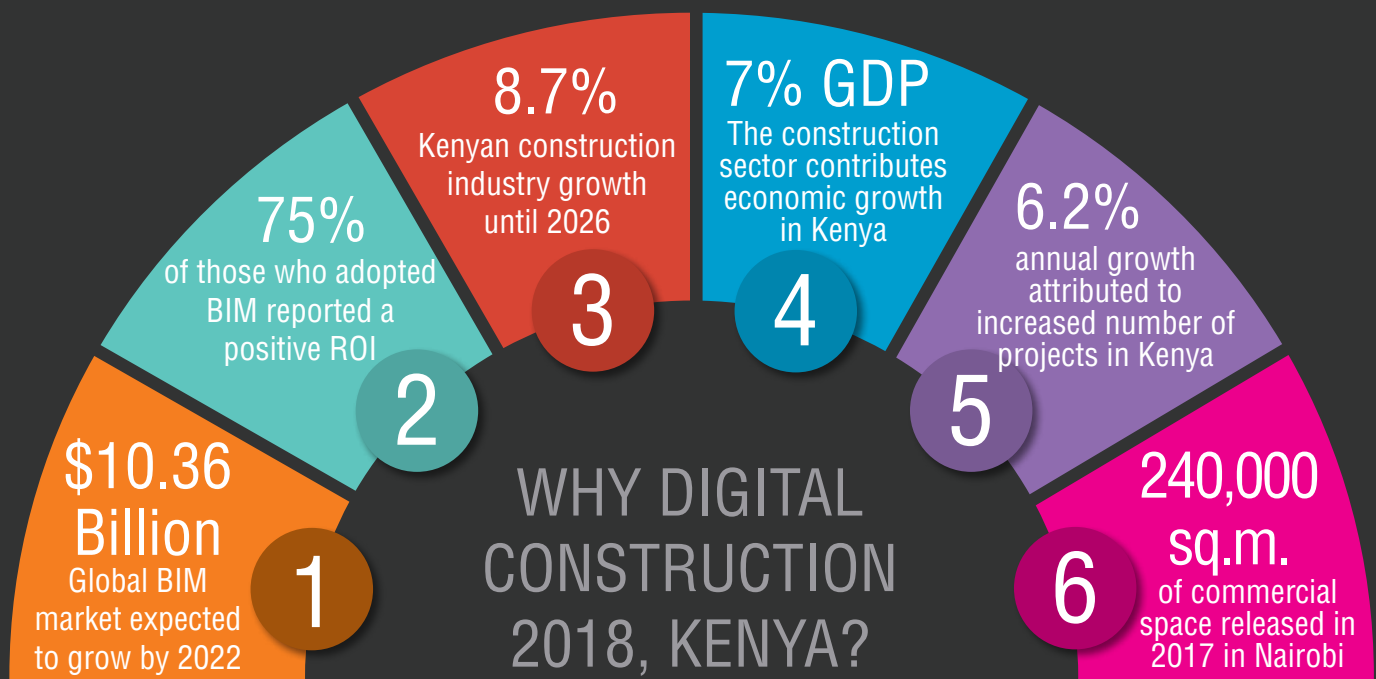
East Africa is witnessing a construction boom supported by robust Government aides and increased foreign investments.

With digital construction tools and systems such as BIM being adopted at a robust speed in the global construction market, developers in the East African region are now wanting to explore the use of BIM and have more turnkey providers to offer project visibility at lower costs with better risk management systems.

Vaughan Harris, Executive Director of the BIM Institute, South Africa says that “sustainable construction via BIM and ICT will only succeed if we work together towards a joint vision through a common plan. Doing so will allow an infrastructure and the community to enjoy the many benefits and ROI, while also including improved infrastructure and housing, safer and more predictable project delivery, a more sustainable and resilient built environment, and higher quality service delivery for end users.”

The 2-day, **East Africa: Digital Construction 2018** in Nairobi will explore BIM and ICT to discuss and debate the legacy systems that need to be replaced and implement advanced technologies & processes to develop skilled professionals for sustainable project life-cycles.

Huzefa Kathawala
Director | **Saifee Events**





WHO MUST ATTEND:

- Public sector
- Architects/AEC
- Builders/Developers
- Structural and civil consultants
- Project Managers
- MEP Designers Consultants
- Facility Managers
- Planning Managers
- Procurement Managers

KEY TAKEAWAYS:

- Network with the regional and international design build professionals to learn on the possibilities of implementing BIM for smart construction.
- Head back with a renewed aim and vigour to transform the legacy systems and culture to a smart and cohesive work culture via implementing BIM
- Understand the level of skill development needed for your staff to implement new technologies
- Be aware of the impact of ICT in buildings and how Facility managers should benefit from it
- Build strong connections with global digital construction product and software providers
- Get to meet trustworthy local partners to help execute your business in Kenya

WHO SHOULD SPONSOR:

| | |
|---|---|
| Building Information Modelling and Systems (BIM) | |
| | Turnkey engineering consultants |
| Information Communication and Technology providers | |
| | AutoCAD and Revit software for Architecture, MEP, Engineering |
| Cost management and budget system in construction | |
| | Big Data in construction |
| Building automation providers | |
| | HVAC systems and equipments - Heating, Air-conditioning, Temperature control and Ventilation |
| Renewable energy equipments | |
| | Plumbing products and water management systems |
| Fire safety modelling systems and products | |

ADVISORY COMMITTEE



Vaughan Harris
Executive Director
BIM Institute, South Africa



Elizabeth Chege
Vice Chair, Africa Regional Network,
World Green Building Council, Chair,
Kenya Green Building Society



Madhur Ramrakha
Board Treasurer & Chair of Finance
Committee, Kenya Green Building
Society, Director- iJenga, Managing
Director - Urban Nirvana Property
Solutions



Nashon Okowa
Chairman
Association of Construction Managers
of Kenya (ACMK)



Engr. Bola Bido
Programme Controller
Citadel for Technological and
Engineering Development (CITED),
Nigeria



Rehema Muniu
CEO, Kenya Green Building
Society, Kenya



Jacob Mwangi
CEO
Architectural Association of Kenya



**Engr. Ademola Isaac
Olorunfemi, FNSE**
Director, Afriprops Development Co
Ltd, Former Member- Council for the
Regulation of Engineering in Nigeria
(COREN), Nigeria

CONFERENCE CHAIRMAN



Vaughan Harris
Executive Director
BIM Institute, South Africa

“Past revolutions have helped us build infrastructures for society to function. Today, technology allows a society to function and be far more disruptive with or without an infrastructure.”
- **Vaughan Harris**, Executive Director, BIM Institute

OUR ESTEEMED SPEAKER PANEL



Eng John Tanui
CEO
Konza Technopolis Development
Authority, Kenya



Vaughan Harris
Executive Director
BIM Institute, South Africa



Miklós Szövényi-Lux
Head of Strategic Relations, CEN/TC 442
Member
GRAPHISOFT, Hungary



Werner Maritz
Director - Industry Strategy
Oracle Construction and Engineering,
South Africa



Rajiv Sharma
Infrastructure and Capital Projects (ICP)
Regional Capital Projects Lead
Deloitte East Africa, Kenya



Marius Mostert
Technical Principal, Urban Development
SMEC, South Africa



Andrey Lyubimov
Head of Projects
DMI, Kenya



Rehema Muniu
CEO, Kenya Green Building
Society, Kenya



Mairura Omwenga
Chairman
Town and County Planners Association
of Kenya (TCPAK)



Nashon Okowa
Chairman
Association of Construction Managers
of Kenya (ACMK)



Johnson Denge
Senior Manager - Real Estate
Cytonn Real Estate Ltd, Kenya



John Kabuye
Vice Chairperson & Head of Advocacy
Committee
Kenya Green Building Society
MD - BESIC Group Ltd, Kenya

OUR ESTEEMED SPEAKER PANEL



Abraham Muhindo
Chairman
Construction Management Association
of Uganda



George Arabbu
Architects Chapter Registrar
Architectural Association of Kenya
Part time Lecturer
Nairobi Institute of Technology, Kenya



Engr. Julius Riungu
President
Federation of African Engineering
Organisation



Amrish Shah
Director | Sustainability Consultant
Urban Green Consultancy
Board Secretary
Kenya Green Building Society



Richard Matchett
Digital Practice Leader
Gauteng & Rest of Africa,
Aurecon, South Africa



Henry Musangi
Director of Design
Planning Systems Services Ltd, Kenya



Leon Van Rensburg
Business Development Lead
Prokon Build, South Africa



Bisrat Degefa
Head of Digital Engineering
Atkins Africa, Kenya



Rui Machado
CEO
Anguloraso, Kenya



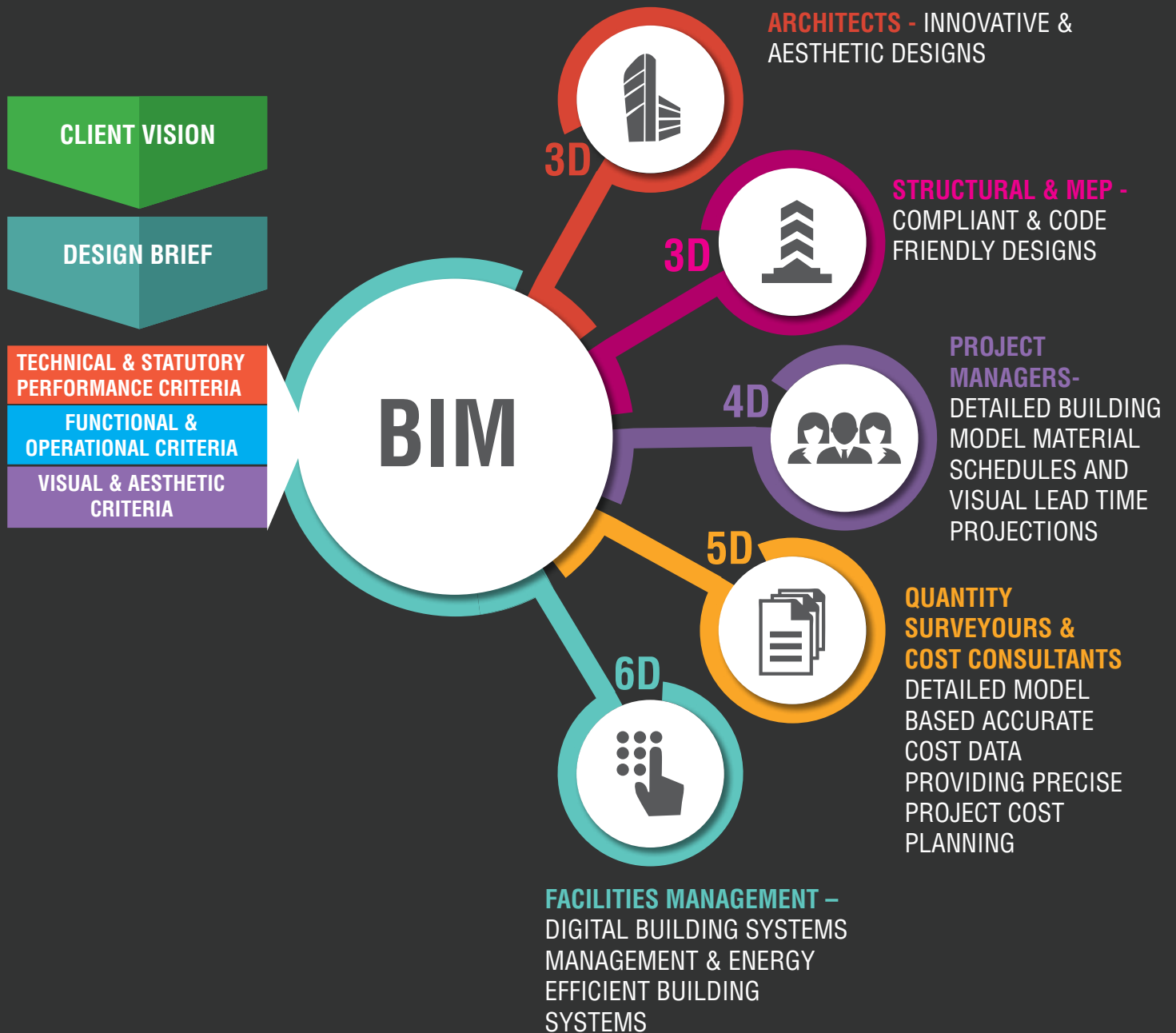
Felix Lati
Managing Partner
Lexicon + ion, Kenya



Eng Gilbert Mwalimo
Director
Gill Consult Ltd., Kenya



Ronnie Siphika
CEO
Construction Management Foundation,
South Africa.



DAY 1 | NOVEMBER 14, 2018

8:00 MORNING COFFEE AND REGISTRATION 

8:45 WELCOME NOTE FROM SAIFEE EVENTS

8:50 OPENING REMARKS FROM CHAIRMAN
VAUGHAN HARRIS | EXECUTIVE DIRECTOR, BIM INSTITUTE, SOUTH AFRICA

THE EAST AFRICAN CONSTRUCTION LANDSCAPE: GEARING UP TO DIGITAL TRANSFORMATION

9:00 KEYNOTE: Konza Technopolis Digital Construction Management



- E-procurement for construction contractors
- Digital construction project coding at Konza Technopolis
- Automated construction management from initiation, planning, execution, monitoring, controlling and closure
- Digital construction documents archiving

ENG. JOHN TANUI | CEO, KONZA TECHNOLOGICAL DEVELOPMENT AUTHORITY


9:30 PANEL: The current construction landscape: The time is Now to embrace digital transformation



- Understanding the current construction landscape: Developments, bottlenecks, potential
- Why should we embrace digital systems in construction? Importance for developers and design build teams
- Vision for Kenya and future roadmap by the stakeholders

10:15 Reserved for ORACLE CONSTRUCTION & ENGINEERING

WERNER MARITZ | DIRECTOR-INDUSTRY STRATEGY, ORACLE CONSTRUCTION & ENGINEERING

11:00 MEET AND GREET WITH A CUP OF COFFEE! 

11:30 Uptake and application of BIM: The challenges of Building Information Modelling in construction projects in Kenya

- Digital systems in Architecture have shifted from design and drafting to information modelling yet the Kenyan market, and consultants are stuck in the former.
- The need for intelligent computer generated models that aid collaborative design, scheduling, procurement, construction, and management of buildings is now at a critical stage.
- Urgent uptake of BIM systems is necessary to see regularisation of the murky process of construction

GEORGE ARABBU | ARCHITECTS CHAPTER REGISTRAR, ARCHITECTURAL ASSOCIATION OF KENYA | PART TIME LECTURER, NAIROBI INSTITUTE OF TECHNOLOGY

11:50 HIGHLIGHT: ARCHICAD; the ultimate BIM solutions for Design and Construction



- Why BIM in the Design and Construction Industry?
- Key points in the BIM workflow of the Design and Construction Industry
- Real life example of an "Open BIM" project

MIKLÓS SZÖVÉNYI-LUX | HEAD OF STRATEGIC RELATIONS, GRAPHISOFT

12:30 CASE STUDY: BIM Implementation - Our regional experiences



- Focus on the collaborative work between the project teams
- Challenges faced in skill development in BIM and how we overcame it?
- Impact of BIM and why it is the way forward

GILBERT MWALIMO | DIRECTOR, GILL CONSULT LTD

12:50 CASE STUDIES: The use of international cross-consultancy coordinated Building Information Modelling (using the Revit/ Navisworks platform) in two case studies:



- The case of a services intensive industrial / logistics centre in Mlolongo Kenya
- The case of a commercial retail centre in Nairobi Kenya

HENRY MUSANGI | DIRECTOR OF DESIGN, PLANNING SYSTEMS SERVICES LTD

DAY 1 | NOVEMBER 14, 2018

13:15 LUNCHEON - BON APPETITE!



JOINING HANDS TO MAKE THE FUTURE OF CONSTRUCTION A REALITY: EXPLORING BIM FOR DESIGN STAKEHOLDERS

14:15 Think of BIM as a value creator, not as a cost factor

- Establishing the right motivation for BIM adoption
- Establish a classification system for sharing standards
- Quantity Surveying- Going beyond the call of duty
- Learning on the job – BIM is the way, but how?

VAUGHAN HARRIS | EXECUTIVE DIRECTOR, BIM INSTITUTE

14:40 ROUND TABLE SESSION: Exploring the key factor to make the region - trendsetters in Construction in Africa



Current mindsets:

- Cost Management
- Designs and scheduling
- Construction Management

Government involvement current and future

- What can the community drive?
- Current limitations in the markets
- Where can we start?

ROUNDTABLE LEADER:

LEON VAN RENSBURG | BUSINESS DEVELOPMENT LEAD, PROKON BUILD

15:20 GLOBAL CASE STUDIES: BIM Application on International & African projects



- Case Study 1: Sydney North West Rail Link – Bellavista Station Structures
- Case Study 2: Raw Material Handling Building for AB InBev in Accra, Ghana

MARIUS MOSTERT | TECHNICAL PRINCIPAL, URBAN DEVELOPMENT, SMEC

15:50 STAY FRESH! GRAB A COFFEE!



16:00 GLOBAL CASE STUDIES: The use of BIM and lean construction to improve performance of construction projects.



- Vision by Construction Management South Africa on supporting digital systems and tools such as BIM for efficient construction planning.
- Regional case studies that can be replicated in East Africa

RONNIE SIPHIKA | CEO, CONSTRUCTION MANAGEMENT FOUNDATION

16:20 Advantages of Technology in Construction

The impact technology has on some key factors within the construction industry:

- On time completion
- Remaining within the budget
- Clashes

Benefits of embracing technology:

- Owner
- Project Stakeholders
- Planning to Hand Over

Where to start when considering the introduction of new technology during construction

LEON VAN RENSBURG | BUSINESS DEVELOPMENT LEAD, PROKON BUILD

16:50 CLOSING REMARKS FORM THE EVENT CHAIR

VAUGHAN HARRIS | EXECUTIVE DIRECTOR, BIM INSTITUTE

16:55 NETWORKING RECEPTION



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SAIFEE

DAY 2 | NOVEMBER 15, 2018

8:30 MORNING COFFEE AND REGISTRATION 

8:50 OPENING REMARKS FROM CHAIRMAN

THE RISE OF BUILDTECH TO BREATHE LIFE IN CONSTRUCTION MANAGEMENT

9:00 SPECIAL FEATURE: Technology as a pillar for smart construction



- Information management in the Cloud - how teams are changing their way of collaborating on projects, and what the effect of this is on project planning
- Digital smarts for construction management - mobile apps, drone mapping and information mapping to track progress, trends and problem solve.
- Smart construction methods - a challenge to contractors: how will you adapt to a digital future without paper?

RICHARD MATCHETT | DIGITAL PRACTICE LEADER, GAUTENG & REST OF AFRICA, AURECON

9:25 Digital Disruption in the Construction Industry

- Technology – How technology is playing a bigger role in what we do and how we do it
- People – What kind of people and skills do we need to be ready for the future
- Process – How business processes are changing to adapt with the times.

BISRAT SOLOMON | HEAD OF DIGITAL ENGINEERING, ATKINS

9:50 PANEL: The need to harmonise Building Management Systems and Facility Managers for smart facility management - Focus on Big Data in buildTech, ERP and FM.



Panel members to consist of Facility Managers and BuildTech providers - BMS and ICT

10:35 MEET AND GREET WITH A CUP OF COFFEE! 

11:00 RESERVED FOR SPONSOR

11:30 Revit® – Exploring the benefits as well as obstacles & problems of practical BIM implementation in Engineering Design.

- A successful project requires coordination of different specialists working on a project while it is ongoing. Usually, Structural and MEP design layouts have often run into several drafts as spatial and functional interferences gradually get dealt with during the planning stage. However, Revit® as a BIM software is helping to improve coordination by addressing various potential design issues associated with different phases like project inception, evaluation, construction, operation, demolition, others.
- A case study of real project where Revit® have been adopted by design team will be presented, reviewing benefits as well as obstacles and problems of practical BIM implementation.
- Developers in East Africa need to realize the advantages of using BIM technology and foresee their use for the different stakeholders in the contract. Although a fluid communication between design teams already exists, the problems occurs in construction phase.

RUI MACHADO | CEO, ANGULORASO

12:00 NEED OF THE HOUR: Smart Town Planning and Development: Smart Service Delivery in Nairobi



- Nairobi city is presently poorly planned and developed
- Building construction poorly managed and building collapse is common;
- Transportation, delivery of utilities and services is poor;
- Smart/digital town planning is needed: digital mapping; street/property address
- Smart/digital town planning: digital building construction, transportation; utilities and services

MAIRURA OMWENGA | CHAIRMAN, TOWN AND COUNTY PLANNERS ASSOCIATION OF KENYA

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DAY 2 | NOVEMBER 15, 2018

12:25 Strengthening the Construction Management Framework in East Africa: Why Digital Transformation is key?

NASHON OKOWA | CHAIRMAN, ASSOCIATION OF CONSTRUCTION MANAGERS OF KENYA (ACMK)

15:00 FINANCE PERSPECTIVE: Capital Projects in a Digital Age



RAJIV SHARMA | INFRASTRUCTURE AND CAPITAL PROJECTS (ICP) REGIONAL CAPITAL PROJECTS LEAD, DELOITTE EAST AFRICA, KENYA

13:00 LUNCHEON - BON APPETITE!



15:20 STAY FRESH! GRAB A COFFEE!



EXPLORING INNOVATIONS FOR SMART AND SUSTAINABLE INFRASTRUCTURE

15:40 RESERVED FOR SILVER SPONSOR

14:05 Importance of BIM in Building surveying for more sustainable buildings

JOHN KABUYE | VICE CHAIR & HEAD OF ADVOCACY COMMITTEE, KENYA GREEN BUILDING SOCIETY | MD - BESIC GROUP LTD.

16:00 TBA

16:20 TBA

14:30 CASE STUDY: Impact of building simulation modelling on green building projects



- Importance of digital tools in optimizing the building design to improve energy and building performance

AMRISH SHAH | DIRECTOR | SUSTAINABILITY CONSULTANT - URBAN GREEN CONSULTANTS | BOARD SECRETARY - KENYA GREEN BUILDING SOCIETY

16:50 CLOSING REMARKS FORM THE EVENT CHAIR - END OF CONFERENCE

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10 CPD

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East Africa: Digital Construction 2018

November 14 & 15, 2018, Villa Rosa Kempinski, Nairobi, Kenya

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EMAIL TO: huzefa@saifee-events.com

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Name: _____

Job Title: _____

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Booking is invalid without a signature

Two full-day conference pricing:

1 Delegate USD 200

3 and more delegates USD 150
per delegate

(Please specify number of delegates)

The price includes access to both days of the conference with lunch and coffee breaks plus access to the approved presentations post-conference

15 USD administration charge and any applicable withholding or any other tax or fee will be applied

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- Hotel accommodation.** Overnight accommodation is not included in the registration fee. A reduced rate may be available at the hotel hosting the event. The reservation form will be sent to the client after the venue has been confirmed, but no later than one month before the event begins.
- Cancellation by client.** The client has the right to cancel his/her participation in the event. Cancellation must be received by Saifee in writing, either by mail or fax. If the client cancels with more than one month's advance notice before the start of the event, Saifee shall be entitled to retain and charge 50% of the amount payable for participation in the event. If the client cancels with one month's (or less) advance notice, or fails to attend the event, then the client shall not be entitled to any refund. Failure to attend an event shall not excuse a client from owing the full amount of the registration fee. A copy of the conference notes from the event will be sent to the client after the event is over in case of cancellation by the client.
- Cancellation by Saifee.** While every reasonable effort is made to adhere to the advertised program, circumstances can arise which may cause changes in the program, including but not limited to changes in the content, date(s), location or venue, or special features of the planned event. Such circumstances include but are not limited to acts of terrorism, war, extreme weather conditions, compliance with government requests, orders and legal requirements, failure of third party suppliers to timely deliver, and failure to register the minimum target amount of attendees for a given event. Saifee reserves the right to change the content, date(s), location or venue and/or special features of an event, to merge the event with another event, or to postpone it or cancel it entirely as appropriate under the circumstances. Client agrees that Saifee shall not be liable for any cost, damage or expense which may be incurred by client as a consequence of the event being so changed, merged, postponed or cancelled and client agrees to hold Saifee harmless and to indemnify Saifee in case of liability caused by any

such changes, mergers, postponements or cancellations.

- Cancellation of the event.** In case Saifee cancels an event, then Saifee may offer the client a full credit up to the amount actually paid by the client to Saifee. This credit shall be valid for up to one year from the issue date of the invoice to attend any Saifee-sponsored events. The client shall not be entitled to this credit as a contractual right.
- Client's identification information.** By signing of this sales contract and these terms and conditions the client gives full right to EP to share the client's identification information such as, but not limited to, client's name, address, email addresses, phone numbers and names of representatives with third parties, which participated on the same event as the client.
- Governing law.** This contract shall be governed and construed in accordance with the laws of India (not including its conflict of laws provisions). Any disputes arising out of this contract shall be brought before the courts of the India situated in the city of Pune in Maharashtra, India. At its sole discretion, Saifee may elect to bring any dispute arising under this contract to the jurisdiction of the courts in which the client's offices are located.
- Indemnification.** To the fullest extent permitted by the law, you agree to protect, indemnify, defend and hold harmless Saifee, its owners, managers, partners, subsidiaries, affiliates, officers, directors, employees and agents, from and against any and all claims, losses or damages to persons or property, governmental charges or fines, penalties, and costs (including reasonable attorney's fees) (collectively "the Claims"), in any way arising out of or relating to the event that is the subject of this contract, and regardless of negligence, included but not limited to, Claims arising out of the negligence, gross negligence or intentional misconduct of Saifee employees, agents, contractors, and attendees; provided, however, that nothing in this indemnification shall require you to indemnify Saifee Indemnified parties for that portion of any Claim arising out of the sole negligence, gross negligence or intentional misconduct of the Saifee parties.
- Other currencies.** In case that client requests payment in other than official currency (USD), Saifee reserves the right to apply 8% currency risk surcharge to the actual exchange rate.
- Other Conditions.** Any terms or conditions contained in the client's acceptance which contradict or are different from the terms and conditions of this registration document shall not become part of the contract unless individually negotiated with Saifee and expressly