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BuildPress

The Official Magazine of the Architectural Association of Kenya

New Technology in Construction

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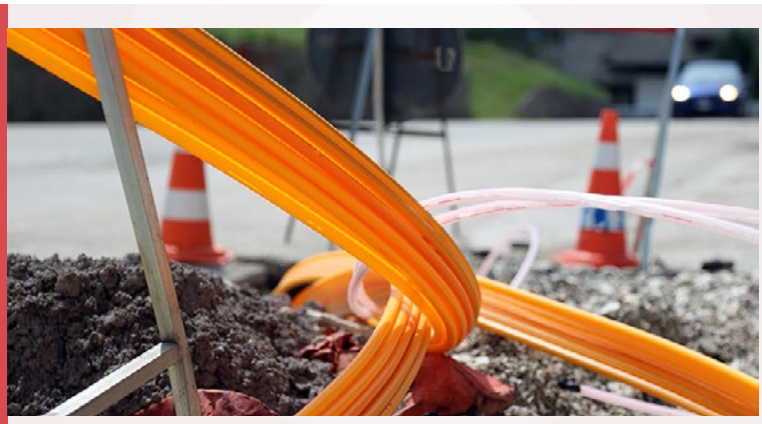

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" Are you aware of the software trends within the industry? "

EDITOR'S NOTE

Technology has become the very heartbeat of the 21st Century. It takes various forms that aid in efficiency of processes, prouct satisfaction and ultimately consumer value. It is not a surprise therefore that every sector of the economy continues to embrace technology in a quest to aid its advancement. The built environment is no different and that is why this issue of BuildPress explores this wide subject of new technology in construction.

Building Management Systems have been with us and they keep evolving. In this issue, we look at how they can aid us in effective management of natural resources with the aim of combating climate change. Is Artificial Intelligence applicable to the built environment? How? Well, one of our articles explores how sites can be mapped using AI. Further, one of our contributors posits that there is a place for digital technology in management of workers on construction sites. Are you aware of the software trends within the industry? And how much do you know about the Safari Green Building Index?

In this issue of BuildPress you will get deeper insights on these topics and so much more. It is our hope that after reading through the articles we have compiled you will better come up with solutions to challenges plaguing the industry and see opportunities on matters technology where the built environment is concerned.

Sincere gratitude goes to each individual and team that has made this publication possible. Specifically, accolades go to our article contributors, the editorial committee, magazine advertisers, sponsors, the AAK secretariat, the AAK leadership, the magazine design and layout team, publishing team, and you, our reader, for continuously inspiring us to keep doing this.

Have an innovative read, wont' you!

Patricia K. Baariu
Editor, BuildPress Magazine
Corporate & Council Member,
L.and Arch Chapter, AAK

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> " Our association has been in the forefront of promoting the use of technology in the industry."
>
> **JACOB MWANGI**
> **CEO, AAK**

CEO'S MESSAGE

Being a year of recovery from the pandemic, the association has remained steadfast in its mandate to deliver to its members. Even as we transition to a new year, we are convinced that we will experience foreseeable successes in all realms of the association.

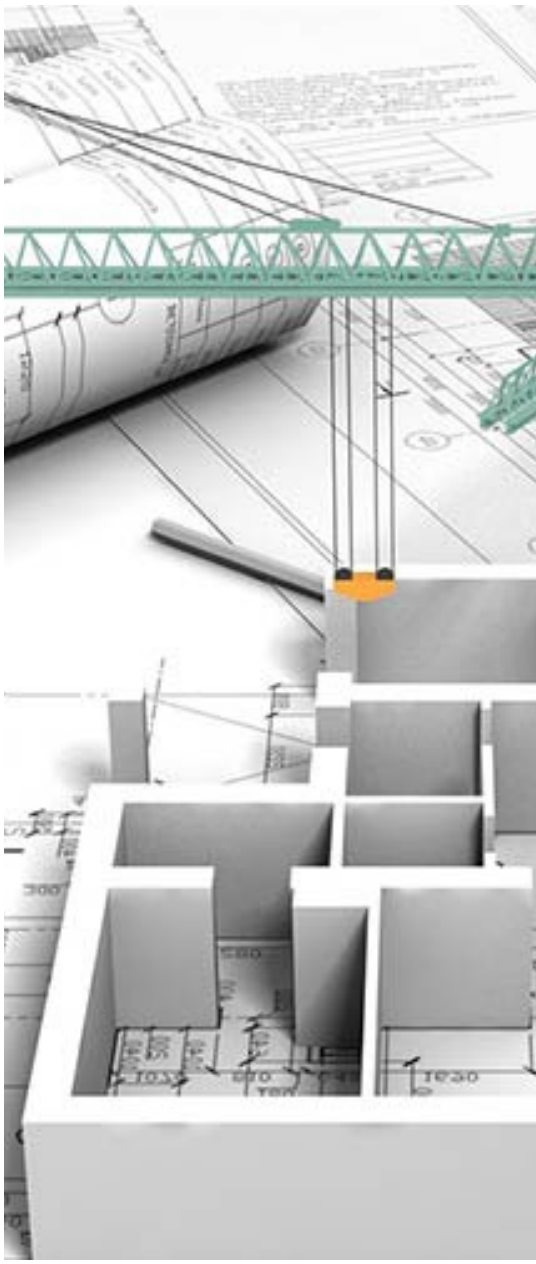
While the industry has undergone tremendous changes over the last few decades, this year's theme new technology in construction, will hopefully effect a transformation in the built environment and the industry at large.

Our association has been in the forefront of promoting the use of technology in the industry. Within this year, we have partnered with the Konkouey Design Inititative (KDI), Amani Mashinani Trust, ITDP, Arup Engineering, Hakijamii and Pamoja Trust to promote the Inclusive, Integrated Infrastructure initative dubbed the 3IF initiative. The initiative promotes the development of inclusive, integrated infrastructure in the country for the benefit of inhabitants of informal settlements.

To this effect, we held a series of webinars on a range of topics on built environment with the aim of influencing policy.

AAK has also collaborated with 14 Trees on the promotion of 3D printing of building projects. 14 Trees is a joint venture between Holcim and CDC Group, the UK's development finance institution. The 14Trees will be handling 3D-printing for the affordable housing project in Kilifi town in Kenya.

During the AAK Convention in September this year, we launched the Safari Green Building index developed by the AAK Environmental Design Consultants Chapter. The tool provides localized benchmarks and guidelines for assessing efforts to address climate change and environmental degradation through buildings. It highlights best practices in building construction, operation and maintenance so as to reduce or eliminate the adverse impact of buildings on the environment and occupants.



PRESIDENT'S MESSAGE

> " In the year ahead, we hope to continue with these initiatives, as well as constantly scouting for opportunities that will help the association realize its core mandate of promoting excellence in the sector."
>
> **WILSON MUGAMBI**
> **PRESIDENT, AAK**

This year has proved to us that our association could as well thrive and stay relevant in the virtual space. I am proud of our successes particularly in providing more opportunities for meaningful engagement for our members and sponsors in providing professional development and outreach opportunities.

The changes around us in the industry are prominent. Technology has continued to impact on us and the benefits of this is encapsulated in this BuildPress issue's theme New Technology in Construction. At AAK we have embraced the use of technology in the industry and have continued to press on our members to embrace the same.

We support the introduction of solutions that will enable production of affordable housing in the country with significantly reduced carbon footprint. We have committed to support the introduction of 3D printing of structures in the country as it has demonstrated the potential, in the medium and long term, of significantly refuting the carbon footprint of housing development as well as the actual cost of development.

We have partnered with 14 Trees, a company owned by Lafarge Holcim and CDC Group to promote this technology in the country. We have also partnered with Neulandt, an Austrian company that is planning to introduce portable pre-cast technology in the country. It is our firm belief that these partnerships will support the realisation of green and more affordable housing solutions in the country.

In the year ahead, we hope to continue with these initiatives, as well as constantly scouting for opportunities that will help the association realize its core mandate of promoting excellence in the sector. Above all, I would like to thank you members for your continued participation and enthusiasm in our professional community and our partners for your incredible support and cordial relationship over the years. As we move into the festive season, I'd like to wish you all a Merry Christmas and a Happy New Year!

Building Security Technologies That Deter Intrusion

By Wahu Njoroge

The built environment continues to shape our living spaces. It can easily be said that without the industry, human life would not be as comfortable as it is. A lot of effort goes into the construction of buildings, roads, and other infrastructural works. Architects utilize complex concepts to design projects, structural engineers ensure that the structural integrity of such projects is guaranteed under any conditions, electrical professionals apply their experience to coordinate sophisticated electrical systems harmoniously, while Quantity Surveyors employ their mathematical prowess to ensure that the building cost is optimum. This industry then, is responsible for marvelous utilities that have been developed through great collaboration and indeed harnessing of synergies between practitioners.

As a general rule, the standards of civil engineering works are clearly prescribed in terms of the structures' safety and fitness for purpose. However, end products of the built environment require additional features which work in tandem to guarantee superlative usage. We live in an era where security has moved from the traditional state centric approach which was predominantly focused on territorial integrity and statecraft. The advent of terrorism and insurgencies has brought a new challenge to practitioners in the built environment. Though not a requirement yet, many developers and practitioners have started discourse on building security.

It has been witnessed around the world that a secure building can be the difference between life and death during an attack. The rationale for heightened building security can be drawn from either its intended purpose or the need to protect the infrastructure from any eventualities.

Technology in Building Security

Technology plays a major role in building security. Traditionally, many developers prefer deterrence as a means of securing their premises. They deploy armed and unarmed guards who keep watch on the premises and by this action deter intrusion. The effectiveness of this approach has for a long time been in question, considering that a single guard is limited in the scope or area that they can man. Moreover, guards being humans are prone to body fatigue, attitude problems, among other related issues.

Due to these human related limitations, developers are forced to use a lot of resources on deployment of more guards around their premises. This traditional approach is however increasingly being replaced by highly sophisticated security solutions which are based on artificial intelligence. A quick survey around Nairobi will find that majority of the modern buildings are under 24 hours closed circuit television (CCTV) cameras. While this is important, video analytics provide inconclusive or sometimes incorrect alarm signals. In contrast, advanced security technology solutions provide the needed additional capacity to alert personnel to possible security breaches and hence better ensure that property and people are protected. The new security systems utilize complicated algorithms to determine intrusion and make appropriate actions to ensure that the intruder is curtailed, documented and eventually arrested. Facial recognition software, biometric identification systems, smart parking systems among other technologies have revolutionized building security.

Property managers can now feed employee data into their systems and restrict unauthorized access to their premises. It is important to note that these security systems may not work exclusively. They in fact compliment the efforts of security personnel by making their work easier and increasing their effectiveness. There are many technology-based building security options that develop ers and property managers alike can use to secure their premises. Some of these include:

3D Laser Measurement

3D laser measurement is a type of digital technology that creates accurate 3D models using laser light and simple mathematics. Depending on the 3D laser scan ner, either a laser point or laser line is directed at the object to be scanned. Specialized soft ware then uses either triangulation or time of flight to calculate and record data points where the laser comes in contact with the object's surface. (Cthonsberry 2020). It adjusts frequency phase-shift technology to measure distance from the scanner. It is used in short-range distances (less than 3 m) and often at retail counters.

Fiber Optic Technology

Fiber optic cable consists of strands of pure glass that are thinner than human hair. The strands carry digital information (such as images) over distance and deliver the information to a receiver. The strands are arranged in bundles that have an outer jacket/covering (VOSCOM 2011). Fiber-optic technology works when light waves sent between a transmitter and receiver are evaluated to determine changes in the light properties. Fiber-optic technology is most often used in perimeter monitoring including fences, solar panel fields, and pipelines. Despite the relatively higher installation costs, this technology has low procurement costs, immunity from environmental factors, and a simple installation process. This often makes it a more preferred security option. (Sick Blog USA 2017).

Radar Technology

Radar works via transmitter and receiver when the detector sends electromagnetic waves and analyzes reflected echoes from target objects. Three dimension al volumetric sensors are used in a variety of applications includ ing distance monitoring (fenc es) and area monitoring (such as roofs and parking lots) (FOURIKIS 2000). The benefits of radar security sensors include the ability to track speed, position, and direction of the objects detected up to 15m high.

[1] Radar solutions are not suitable for tight detection zones (< 2 m). Nor is radar effective as line of sight technology since it lacks the capacity to determine what type or accurate size of object is detected. Since radars are affected by background or environmental noise data can be compromised.

[2] Two-dimensional laser measurement has a longer range than three-dimensional laser measurement systems, yet lacks a third measurement dimension for detection. There is a moderate initial hardware cost (although total cost of ownership is low) and it is harder to conceal than buried cables.

There are many technology-based building security options that developers and property managers alike can use to secure their premises. Some of these include:

- **3D Laser Measurement**
- **Fiber Optic Technology**
- **Radar Technology**
- **2D Laser (Lidar)**

2D Laser (Lidar)

Two-dimensional laser measure ment devices (Lidar) monitor areas with a sweeping laser beam, using the time-of-flight principle to accurately measure distances throughout the field of view. This technology is used in open spaces and with curtain control, such as vertical and horizontal structures or walls. Because light waves are resistant to environmental factors, false alarms are reduced (Sick Blog USA 2020). Configurable ranges, concealed mounting, and up to 360° scanning range in real-time ensure highly accurate detection and position information. Two-dimensional laser measure ment can provide trend and track data for accurately controlling video devices. Commissioning and maintenance for outdoor installations is more cost efficient compared with other solutions.

Conclusion

The effectiveness that can be derived from technology based building security solutions is tremendous. Developers and property managers can be able to secure their buildings given the ever changing security dynamics. Most technology based systems apply machine learning which enables such systems to adapt to the changing environment. This however comes at great cost and as such it will require resources to ensure the safety and security of property and people therein.

As the saying goes **"if you think security is expensive, try the lack of it".**

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Blockchain For The Construction Industry

By Valerie Ondari

The 21st century has brought with it numerous technologies triggered by the fourth industrial revolution. These technologies target the financial and commercial sectors and have led to the emergence of big data, the internet of things and fintech such as Blockchain.

The concept of Blockchain is grounded on Distributed Ledger Technology (DLT); with the two terms being used interchangeably. Put simply, Blockchain technology is a database that is shared on a peer-to-peer network, made up of computers or nodes. Transactions are grouped in blocks at a time and then added to a permanent chain. These blocks cannot be altered once they are added to a chain which makes the transactions publicly verifiable and in theory not hackable. Despite data being copied on several devices, the algorithm used ensures there are no conflicts and that all copies present are recognizable. This can be compared to a shared Drop box folder, the difference being that all versions are preserved and a 'latest version' of every file is maintained (Turk & Klinc, 2017).

Blockchain initially began with the popular cryptocurrency Bitcoin as the underlying technology that runs it. This is referred to as Blockchain 1.0 and was developed for the decentralization of money and payments. Because of the strong bond between cryptocurrency and Blockchain technology, it became challenging to distinguish between the two, leading to the introduction of the term Blockchain 2.0 which refers to Blockchain technology used in the transfer of assets beyond currency. Subsequently, Blockchain 3.0 was also introduced for applications that go beyond finance, that is, for applications beyond markets. Blockchain 2.0 can play a role in the construction industry. First of all, it can be applied in integrated Building Information Modelling (iBIM) to preserve information on the assigned roles,responsibilities and work that is done by different parties. This can be used as a basis in case of legal disputes as Blockchain-based data stores retain the history of data with all its modifications as well as metadata.

Furthermore, this data is protected with a digital signature and does not need a centralized trusted authority (which is the case in traditional databases), as parties in the Blockchain are equal members. In summary, Blockchain has the potential to address the limitations that prevent the industry from adopting BIM by introducing elements such as

confidentiality, change tracing, and non-repudiation. Furthermore, Blockchain can be applied in smart contracts. Smart contracts are self-executing codes that execute the terms of a contract when pre-set require ments are met. Moreover, Block chain can also be implemented in automated payment manage ment, supply chain, e- procure ment, and project and product certification. The construction industry is marred by many challenges from contract-related disputes, cost and time overruns and quality-related concerns. Construction, moreover, has always been a collaborative system including a wide range of participants which translates to a lot of paper documentation. Blockchain can address some of these deep-rooted issues that plague the industry.

However, the construction industry is slow in embracing technological advancements in comparison with other sectors and this is especially glaring in the Kenyan construction industry. This can be attributed to the high initial investment cost, inadequate skill and the one-off use of systems such as Blockchain. Furthermore, in order to be effective, Blockchain requires the development of a full ecosystem among all project participants.

Nevertheless, Blockchain is a potential disruptor in many industries and is likely to bring about the much-needed change in the construction industry, bringing about stability and streamlining construction-related transactions.

Blockchain 2.0 which refers to Blockchain technology used in the transfer of assets beyond currency. **Blockchain 2.0 can play a role in the construction industry.**

AUTHOR BIO

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Building Management Systems and Climate Change

By Arch. Marylyn Musyimi

At the recently concluded AAK Annual Convention 2021, the discussion centred around Climate Change. This is an important discourse that continues within built environment professional circles because the building Industry and buildings specifically, are a major contributor to Climate Change. They consume a large proportion of resources in their construction in the form of materials used and the embodied energy necessary for their execution. Throughout their lifecycles, buildings continue to consume resources and in addition, require maintenance and management. The way we manage our buildings presents us with a big opportunity to curb climate change and even perhaps reverse it.

Building Management Systems (BMS) are computerised or automated methods of measurement, control and management of Building Services. BMS's generally control building systems such as HVAC, Lighting and Security Systems. There are several reasons why building automation is important and a good number of these reasons relate to the management of resource consumption and ultimately the management of climate change.

First, BMS's help provide improved occupant comfort, increased security and remote access, control and operation. In relation to climate change, automating our buildings helps to increase the efficient operation of building systems, reduce energy consumption, reduce operating and maintenance costs as well as reduce carbon emissions. When deciding what to implement in terms of automation, there are several guiding considerations, among them, the cost of implementation and maintenance, the plans for future expansion or adaptive re-use.

Most importantly and connected to climate change, is the consideration for the potential in reducing the environmental impact of our buildings.

Particularly, to reduce the negative environmental impact occasioned by building use, there are several building systems that are prime candidates for automation. . The first system is Heating, Ventilation and Air Conditioning (HVAC), which is responsible for a significant proportion of total building energy consumption, approximated at 40%. When it comes to automated HVAC, the primary functions are controlled influence on the comfort levels of occupants in terms of temperature, humidity, pressure and air quality. Automating these functions reduces manual manipulation and realises savings in energy consumption while at the same time increasing efficiency in performance.

The second system, that if automated can help to achieve positive impact on the environment is lighting control. BMS can be designed to automatically control both artificial and natural light. This automation would be achieved by having switching and dimming controls, scheduled and sensor-based controls and blind or shade control.

Other systems that are potential candidates for automation include utility systems such as water supply, security and safety control systems, and fire alarm systems. The key thing to keep in mind while arriving at the decision of which systems to automate is the overall reduction in consumption of resources and the potential to mitigate climate change.

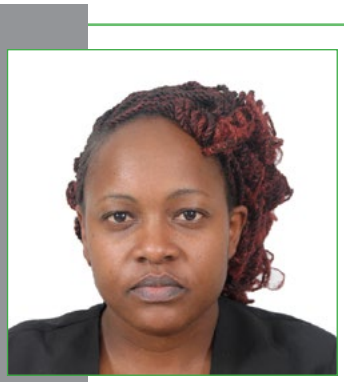
While BMSs have the capacity to help us achieve our green building goals, it is necessary to be cognisant of their limitations. For instance, data, which is the mainstay of a BMS system is expensive to acquire and use. This is largely because of the specialists that are required to analyse the data, and subsequently adjust the BMS configuration to derive value. Connected to this, is the fact that, data on its own has a limited value. For it to be useful in greening our buildings, it requires insight, which is realised by the engagement of specialists.

Another limitation of BMSs is that they sometimes miss the small equipment since concentration is on the building systems with heavier loads. This in turn compromises the optimisation of the BMS. BMSs are subject, just like any other automated systems, to limitations in technology scope, budget availability and scalability. Ultimately also, every BMS is only as good as its programmer, and is therefore limited by our human capacity. Knowing these limitations and actively weighing them against potential positive impact will help us as built environment professionals to implement appropriate automation in our buildings for the benefit of our greatest resource, mother earth.

Most importantly and connected to climate change, is the consideration for the potential in reducing the environmental impact of our buildings.

AUTHOR BIO

Marylyn Musyimi is a Registered Architect and Construction Project Manager with experience in Architectural Design, Construction Management,Policy Making & Urban Planning.



About Us

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We mobilize savings, invest and provide friendly & affordable credit facilities and other world-class financial services for our members.

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- **Development:** Members have access to financing for investment in their firms, building homes, or even vehicles for business.
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Working Culture in Kenya's Construction Sites to Transform through Digital Technology

By Lameck Owesi

Digital technology has transformed operations in several industries, significantly improving efficiency and convenience. The field of architecture and construction is no exception in this, following the global changes witnessed both at project design and implementation on sites. There has been application of Building Information Modelling (BIM), Virtual Reality, Augmented Reality, 3D printing and robotics among other innovative technology concepts that are proving very useful in project planning, presentation and management.

The Kenyan construction industry is picking up with the trends of technology. Several firms are keen to apply advanced technology in planning, costing and packaging their projects. The uptake is however still slow, especially at the construction stage on sites. The delight of every professional is for their designed projects to be executed to the final detail, with minimal or no discrepancies. Designers, project managers and other experts therefore have a reason for concern when the bulk of construction processes are still very manual and disjointed; a recipe that delivers food whose ingredients cannot be authenticated.

A quick online survey undertaken by our team between August and October 2021 among construction professionals and building contractors in Nairobi revealed that majority of site operations are yet to significantly appreciate digital technology, with 65% of the pool reporting their need for this transition on construction sites. Our random visits to few sites in Nairobi revealed the role of perception in the adoption of digital technology, with inertia taking lead since many builders seem comfortable working the traditional way. That notwithstanding, some projects have made commendable efforts in applying digital technology in construction through available platforms such as iBuild.,

A 2019 report published by Ministry of ICT on Emerging Technologies for Kenya mentioned the government's commitment to apply digital technology in the affordable housing project. A good commitment that demands aggressive implementation for this to be fully realized.

It is important to note that most projects in Kenya are usually faced with time and cost overruns, ultimately affecting project delivery. Needless to mention is the issue of quality associated with this process and the occasional conflicts. These conflicts can partly be solved through keen application of technology in project delivery.

Majority of site operations are yet to significantly appreciate digital technology on construction sites.
with 65% of the pool reporting their need for this transition on construction sites.

Digital construction management platforms are coming up with strategies that coordinate critical activities involved, making it easier for construction experts to digitally structure their operations, automate the repetitive ones and minimize flaws. Acquisition of construction supplies, resource allocation and labour management are activities that should closely communicate and digital technology is excellently facilitating this by linking them on a network. Aspects of costs and transparent financial flows are critical in construction, since all the stakeholders must be actively involved in the decisions. Furthermore, digital solutions are a great way to ensure efficiency, minimizing wastage while maximizing precision and speed.

Remote monitoring is becoming an important element of site management, where several projects are brought up consecutively. The installation of smart devices, drones, digital apps and analytics makes it possible for contractors, professionals and clients to track progress on several construction sites from any location and successfully issue necessary instructions to builders. The interconnection of these devices and apps over a network grants a great opportunity for data collection through the application of artificial intelligence and analytics to arrive at data-driven decisions. This becomes very helpful in subsequent project planning for all stakeholders involved.

These are just some of the benefits that construction industry tap on through application of technology, which is already evolving very fast. Evidently, digital technology is an incredible route towards transforming the work culture in our construction industry, which for a long time has operated manually. The overarching benefit is the assurance of quality, speed and efficiency in project delivery. It is about time we all embrace the inevitable shift, and advocate for it. This obviously requires consideration of the local setting, since our industry is characterized by a definitive culture especially among construction workers. Professionals are at the best position to champion technology as the industry leaders. We should therefore take the lead and gradually shape construction in Kenya to this direction.

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Good Render is Not a Guarantee of Good Architecture

By Kimani Mburu

Atlantis cum piranesi render By Siron Global-2

The Building Information Modeling (BIM) has enabled designers to generate computer aided designs that are presented in photorealistic renders and high quality 3D simulations through motion render and virtual reality softwares. These perspectives have showcased unmatched presentation to the extent that many clients are going for them as a criterion for choosing a given design when they have several options to go with. This, in some cases, have been the biggest undoing of clients.

Exaggerated Elements Realities

Many are times that the perspectives and simulations have been refined and edited too much that the whole feasibility and viability of the design is compromised. This may be in exaggerated plot sizes and neighbourhood blending, lighting effect and material finishes. A client will buy the idea presented by how well it blends in its artificial setting, something that may greatly differ and become impractical to achieve in a realistic setting.

Unrealistic Elements

Sometimes the design as presented in and by presentation softwares would incooperated impossible perspective to realize with the local capacity and setting in real life. A client may be presented with a picture window for presentation but the develop ment lies in relatively not so much secure neighbourhood. The pres ence of children playing around such spaces may necessitate the need to take precautionary measure to ensure the window panes are safe to them. This may be in stiffening them or making them bulletproof for security purposes. A water foundation or lighting effect may be possible in displays but prove impossible in real-life particularly with considerations to climatic conditions, security and maintenance. A designer may go for high end finishes or materials that are extremely expensive to procure, install, and maintain. When the client considers these realities, the renders presented to them may hype their expectation only for a hard sad reality to hit them when they start to realize the project on site.

Insensitive to Budget Scope

Clients want to be presented with high end visualizations of their prospective developments. In many cases, to achieve such demands, very fine details and utopia approach has to be incooperated. This may be good for the eye in presentation but sore to the budget in implementation. Complicated design elements may need to be imported or customized, and such require special order and request that comes at an extra cost. If the client was not prepared for the extra cost (which also has to be within the variation limit), realizing the desired design may not be possible. Worst still, they may get a design that has been overhauled completely to look and represent a unique outcome from what they had envisioned.

Missing Intricate Details

In some cases, the perspectives showcase complicated design concepts whose stability and detailing may require specialist engineering consultation to design and test the elements' strengths to determine the spans and sizing. The clients, at presentation stage, may not be presented with the actual cost implications to hold the structure in form and place. Furthermore, the design engineer may alter the basic structural elements spans and sizes and this may have catastrophic implications to spaces qualities, which in turn changes the design from what the client had been presented and convinced on during presentation stage.

Building Regulation Limitations

Coming up with a unique design is one thing and taking it through the local authorities and regulations approval is a different thing. Sometimes designers have generated utopia designs that compromises space quality, lighting, ventilation, circulation, fire escape routes and solid and liquid waste management. A client may want a project to be realized in a specific approach that may impractically impossible to be regularized in approval stage. This quagmire creates a hiccup in the approval stage and to the implementation expectations. Changing the whole design or modifying it to comply with the industry standards may demoralize the clients and their expectations lowered, and or changed –and worse, against what they had admired to realize.

Becoming Realistic

It is therefore recommended that the designer uses the softwares available for BIM to come up with realistic impressions that reflect realities on the ground, meets industry standards and approval requirements as well as be sensitive to the budget that the client has set aside for the same. Doing this reduces the possibilities of conflicts, dissatisfaction and disappointments when the project is in the post design stage. Furthermore, it creates more trust and reliability on the potential of the softwares in making better and more efficient designs.

BIM PRO crew schedule. image coirtesy of procrewschedule.com-2

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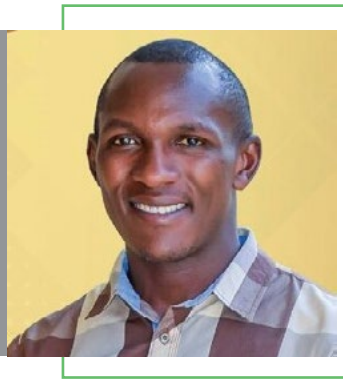


Safari Green Building Index

By George Arabbu

In its 2021 Annual Convention, the Architectural Association of Kenya, **AAK, launched the region's first sustainable building rating tool.** The Safari Green Building Index, SGBI, has been 10 years in the making. The event's theme "The Built Environment and Climate Action: An Impactful Way forward" sought to bring to fore the urgency of action-based solutions going forward.

AAK describes the Index as a national rating system suitable for all kinds of buildings in different climatic zones in Kenya and East Africa. Because buildings deplete natural resources during construction and operation, the Association aims to encourage its members to start designing green buildings to minimize demand on non-renewable resources and maximize use, reuse, and recycling of renewable building materials.

Members have also been urged to adopt efficient bio-climatic construction practices and optimization of locally available materials. The SGBI team, made up of the Environmental Design Consultants chapter of AAK, also emphasized on the need for low and renewable energy based architectural designs that employed good water management systems. The expected results are no less than comfortable hygienic indoor environments.

The SGB Index is an indigenous tool developed to aid in assessing the environmental performance of East African built environment projects whilst providing sustainability leadership in energy loads, ecological footprints and carbon emissions. It is a guiding and performance-oriented system where each criterion is assigned a number of points. New building works, extensions to existing buildings, building works which involve major retrofitting to existing buildings, as well as building conservation/ heritage works are all covered in the tool's application.

As an application and certification tool that prescribes categories, characteristics and ratings for green architectural design, the Index will award all types and sizes of successful buildings. Projects that observe the specified requirements shall be eligible for certification at the classification of Class A (80 to 100 points), Class B (70 to 79 points), Class C (60 to 69 points), or Class D (50 to 59 points).

SGBI's scoring methodology employs localized benchmarks and guidelines to address climate change and environmental degradation through buildings. Best practices in construction, operation and maintenance are emphasised to reduce or eliminate adverse impacts on the natural environment and its occupants. The scoring system is based on the following 7 performance categories: 0% prerequisite requirements, 5% building landscape, 45% passive design strategies, 10% energy efficiency, 30% resource efficiency, 5% noise control and acoustics, and 5% Innovation.

AAK describes the Index as a national rating system suitable for **all kinds of buildings in different climatic zones in Kenya and East Africa.**

The technical committee of AAK's Environmental Design Consultants (EDC) Chapter can be reached for further information on the following contacts: **6th Floor, Room 605, Blue Violets Plaza, Kindaruma Rd, Off Ngong Rd, Nairobi; Tel: 0721691337; and E-mail address: aak@aak.or.ke.**

Other green building rating tools already in use in Kenya include the US LEED by individual accredited assessment professionals. South African Green Star Africa, the International Finance Corporation (IFC)'s Edge, Arc Skoru Inc. digital tool Arc, and American LEED are all promoted by Kenya Green Building Society (KGBS) since 2015. In 2018 Green Africa Foundation, USAID, UNDP and the Government of Kenya relaunched the Greenmark Standard for Green Buildings, a modified version of the 2011 Green Africa Building Standard. Kenya has less than 30 projects registered or already certified green, most of which are found in the capital city Nairobi. The government has ambitious plans to make the construction industry green. As far back as 2004, the government of Kenya created a policy for sustainable human settlements to promote the use of appropriate building technologies and materials.

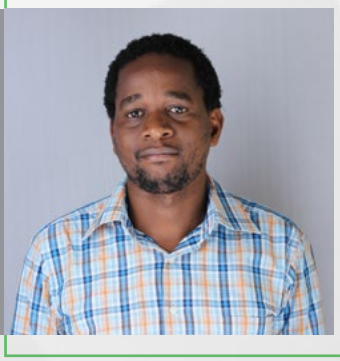
UN-Habitat set the ball rolling on rating systems with the 2010 Conference on Promoting Green Building Rating in Africa, held in Nairobi as part of its Cities and Climate Change Initiative (CCCI). The Conference produced the Nairobi Declaration on Green Building for Africa. Later, a number of government strategies, institutions and specific targets were put in place. The aspiration is captured in the country's Green Economy Strategy and Implementation Plan 2016-2030 (GESIP) and the National Climate Change Action Plan to guide the country's transformation to an inclusive green economy.

Having recognized the critical role of the built environment in climate change, the Government has identified and empowered the Kenya Building Research Centre to champion and coordinate the administration's climate change mitigation and adaptation outlined in the Centre's Strategic Plan (2017/2018 – 2021/2022). Kenya targets 75% of all new and renovated public and private major buildings to be certified green by the year 2030.

The main challenges for the country's leadership and the professional associations remains the ubiquitous adoption of expert services in building projects and the speed of public utilities' infrastructure expansion. Despite an on-going building boom, majority of the private property developers do not employ qualified consultants in their construction projects.

AUTHOR BIO

George Arabbu is the Chairperson, AAK Architects' Chapter and a Partner at Sitescape Studio Limited.



Launch of Safari Green Building Rating Tool at the Sarova Whitesands Hotel, Mombasa. The aim of green building design is to minimize the demand on non-renewable resources, maximize the utilization efficiency of these resources, when in use, and maximize the reuse, recycling, and utilization of renewable resources.

Arch. David Mutiso formally retired from his position as the Senior Trustee of the East Africa Institute of Architects (EAIA) Bursary Fund on 1st December 2021 and has handed over the senior trusteeship to Arch. Philip Kung'u and Arch. James Gitoho

Some of the AAK members during the tree planting session

Ngara Girls fraternity and the AAK team.

Arch. Henry Mwoleka, Tanzania installed as the new EAIA President, taking over from Arch. Florence Nyole, from Kenya

EAIA hybrid AGM 2021 at the Sarova Whitesands Hotel, Mombasa, Kenya

JKIA QS CHAPTER STUDENT'S INDUSTRIAL TRIP: Held at the site of the Proposed Refurbishment of Terminal 1B and 1C hosted by the Kenya Airports Authority, on the 22nd of October, 2021.

Software trends and development in the industry

By Dishon Obwaya

Programmed application softwares are tools that aid in the automation and management of processes. In the architecture industry there are a number of softwares that help in the execution of design and construction processes. In the 21st century Softwares developer have created android and windows-based programs that assist clients and professionals to monitor and track every step of their construction projects anytime anywhere.

Close to my heart is the trend and development of architectural application software from the very first time I had interacted with Computer Aided Design (CAD), Autodesk and Graphisoft based softwares in the year 2007.this was a game changer in the industry as there was time saving and quality of work produced in the tracing papers and blue prints in comparison to the traditional method of graphite T-and set square I mean hand drawings.

Selection of the software to use will depend on the works to be executed, the cost compatibility of the machine at hand and time that is required to deliver the work. Below is a list of softwares that I have ranked as per the hierarchy and experience in the years of using CAD.

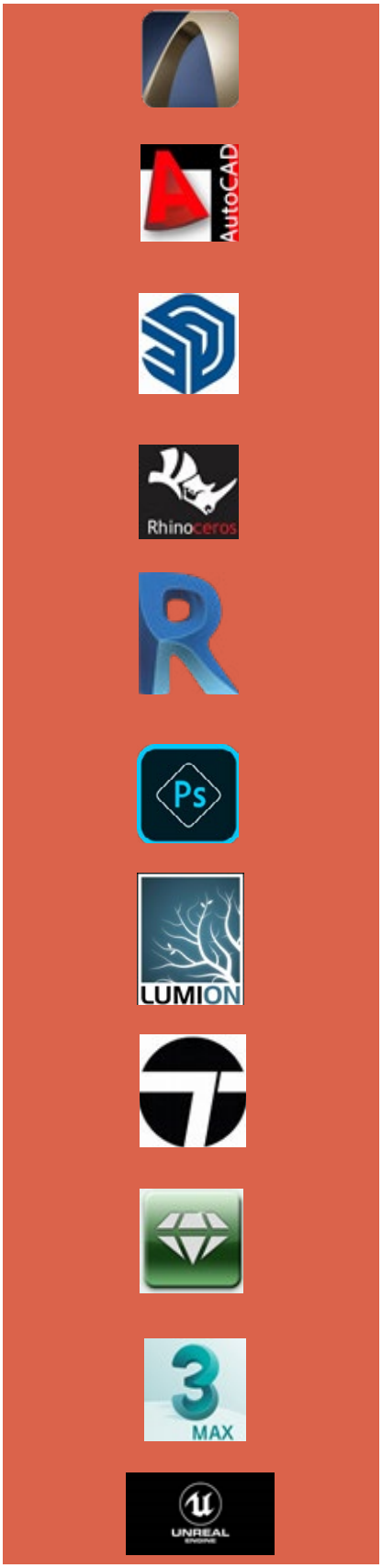
Primary input softwares.
AutoCAD-Autodesk.
ArchiCAD-Graphisoft
Sketchup pro.
3d solid works.
Revit

Parametric design softwares
Rhino 3D.
Grasshopper.

Rendering softwares
Twin motion-Epic.
Abvent Artlantis.
3Ds-max.
Lumion.
Unreal engine-Epic

Software like ArchiCAD have been improved over the years with many versions being in place, currently version 25 has greater working flexibility with other family of softwares and has minimal errors in the workflows.

Plugins like Vray installed to the primary software have been developed to aid in synchronization and exporting BIM data to the rendering softwares hence time is saved in the workflow of exporting to other file extensions. All this softwares when integrated together they form BIM. Even though Revit takes president as the Author of BIM this is a result of the key features like that are grouped into families this helps in the Automation of the building systems. In the current market place AutoCAD, ArchiCAD and Revit have been the key requirement because of the level of precision they offer the practicing professionals. Rendering softwares like twin



Logos of the majority of software that have evolved over the years

Proposed exterior renders done in ArchiCAD + Twin Motion ©Dishon 2020

Proposed interior render of a spa in Juba South Sudan ©Dishon 2019

motion has been embraced by the design team because it offers greater flexibility to architects, landscape architects, interior designers and visualization artist.

Rhino 3D and Grasshopper are design softwares that have displayed greater superiority in the designing of parametric models that cad be exported directly to rendering softwares of the primary softwares like ArchiCAD.

In conclusion of the matter software trends are being improved everyday for better delivery of proposed and ongoing projects with new versions release to the market for educational and commercial use therefore it requires a one to be on the look out and lean on the new features added and learn how to use it to make the design and construction industry progress in the adoption of BIM. When a professional gets good foundation on the basics of a software and explores in depth the new versions of a software there are always improved results in projects delivery. Rendering softwares like twin motion have the capability of harvesting the context of a location and assist a designer in overlaying his model on the exact site location with a view of existing nearby blocks through Google Maps.

Twin motion location grabber for laying models

AUTHOR BIO

Dishon Obwaya has over 10 years experience in Architecture and Construction related projects. He currently works as a Project Assistant at GAPL Kenya.

New Technology in Construction: Chapel at EASA, Nairobi

By Architect Charles Ogeto

Fig 01: The EASA Chapel - Frontside Image

PROJECT PARTICULARS

PROJECT:
DESIGN & SUPERVISION OF THE PROPOSED CHAPEL AT THE EAST AFRICAN SCHOOL OF AVIATION.
PROJECT LOCATION:
EMBAKASI, NAIROBI.
PROJECT COMMENCEMENT DATE: JANUARY 2018.
PROJECT COMPLETION DATE:
JUNE 2019
CONTRACT SUM:
KSH 74,000,270.00
FINAL ACCOUNT:
KSH 84,000,000.00

Maestro Architects were appointed to undertake the design through an open tender process by the Kenya Civil Aviation Authority (KCAA). The project entails design of a Chapel for the East African School of Aviation (EASA) in Embakasi, Nairobi County, which incorporates all the Christian denominations represented by the students population. EASA offers courses such as Aeronautical Communication Operations, Aeronautical Information Service, Air Traffic Services, Air Travel and Tourism, Aviation Safety and Business Management. EASA Campus is on 87 acres of land with staff housing, students accommodation, tution blocks, administration, library, sports facilities, and support services. The general form of the building was influenced by New materials and biomimic architecture. The design alludes to dynamic natural forms, albeit poetic, influenced by nature, sustainability and new technology which influenced the final built form. The project was conceptualized and designed by Arch. Charles Ogeto, an avid design architect, traveller and poet. Charles is a founding director at Maestro Architects together with Architect Kimathi Itaru.

TEAM MEMBERS:

CLIENT:
EAST AFRICAN SCHOOL OF AVIATION
TEAM LEADER/ARCHITECT:
MAESTRO ARCHITECTS
QUANTITY SURVEYOR:
OBRA INTERNATIONAL
CIVIL/STRUCTURAL ENGINEER: KIRI CONSULT
M + E ENGINEER:
DONN CONSULTANTS
ENVIRONMENTAL EXPERTS:
DAYTON
MAIN CONTRACTOR:
LEXIS INTERNATIONAL LTD
ELECTRICAL SUB-CONTRACTOR:
RELCON POWER SYSTEMS LTD
PLUMBING SUB-CONTRACTOR: DENMAR PLUMBING CONTRACTORS LTD

The Project Brief

The Brief entails design of a Sanctuary to accommodate 500 students supported by other facilities; choir room, stores, a vestry room, a lounge, an equipment room, student patios, washrooms, inverter room, control room, multi-purpose room, parking, landscaped gardens, fountains and a bell tower. The chapel was also to have access to the adjoining Fedha neighbourhood.

Design Philosophy

The Architect, a lover of math and poetry, applied the Fibonacci sequence abstraction in the general space and volume conceptualization, alluding to the golden ratio for the dynamics of space and form generation and the Archimedean theory for the Bell Tower to form a centrifugal force that radiates the other spaces. The philosophy is also applied to the window fenestrations positioning in relation to the ground level heights.

Concept and Form

The Architect settled on amorphous natural forms from nature~snail shells, leaves, natural rocks ~ which culminated in a biomimic composition that is unique to the context and the functional requirements of a cosmopolitan and interdenominational campus chapel. The roof, like a simple "leaf on rocks", floats over the curved structure (rocks) and the juxtaposition of the tower alludes to the archimedes spiral centre and African motifs but emblematic and symbolic

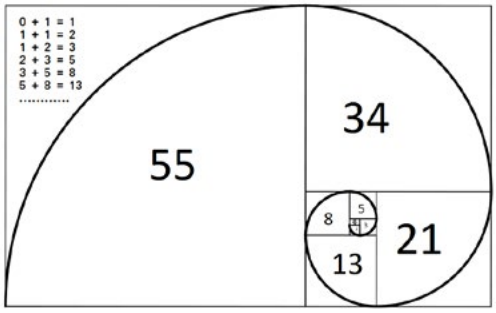


Fig 02: Fibonacci series (Google image)

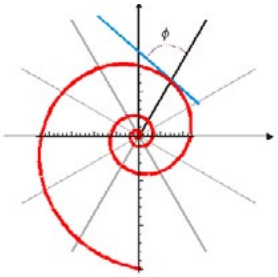


Fig 03:Archimedean spiral (Google image)

Fig 04: Sea shell (Google image)

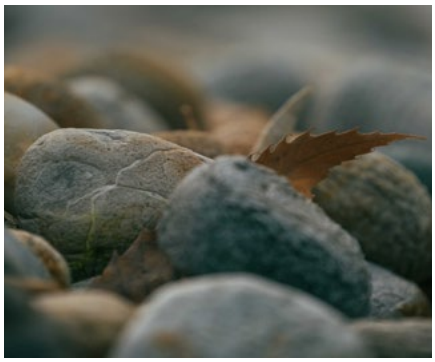


Fig 05: Leaf on rocks (Google image)

Fig 06; Architects impression showing leaf-lke roof on rocks

to redefine worship function, almost like a "light house", to generate the soul and spirit of the place. Water ponds at the entrance lobby create the mood for spiritual renewal, a baptism of sorts, for a deep soul searching journey that the students require for a balanced life whilst at the campus.

Fig 07: Shells

Fig 08: Leaves on shells

New Technology

The project incorporated the use of EPS (Expanded Polysterene) Panels, Shotcrete and Tubular Framed Structural steel elements and alucobond cladding to enable faster construction and quick possession of the building. The structural steel fabrications were done offsite [quickening the construction process]. The Framed steel supports on stub column bases were cladded with alucobond, which is faster to erect and neater giving the building a grand and unique appearance. Painting was applied externally and internally.

EPS is a recent construction material and technology in Kenya for walls,floors and ceilings. The EPS insulation is a lightweight, rigid, closed cell insulation. EPS is available in several compressive strengths to withstand loads. For this project, we chose two EPS panels of 70mm thickness with shotcrete application on both sides to form a composite wall of 140mm thick which was then plastered [to increase fire rating] and painted. In temparate climates, EPS reduces home energy use significantly by over 50%. Due to its flexibility and versitility, it can be cut into sheets, slabs or any other shapes as per specific design requirements. It was therefore easy to achieve the curved walls of the Chapel.

This closed-cell structure creates the desired properties sought by architects such as low minimal water absorption, low vapour permanence, long term R-Values ("R" is the resistance to heat flow), sound acoustic, energy efficiency, constant thermal resistance, energy savings, compressive strength, sustainability, dimensional stability, chemical inertness and resistance to decay over time. During erection, utmost care should be taken to avoid puncturing or damaging the EPS panels whilst undertaking plumbing, electrical,

Fig 09: Fixing of the EPS panels onto the curved steel frame supports.

Fig 10: The focal bell tower.

and structured cabling works since this reduces its efficiency and lead to leakages. Compared to conventional construction, EPS panels installation takes half the time.

SUSTAINABLE DESIGN STRATEGIES

At EASA chapel, sustainable design was a key factor to ensure environmental and contextual response to site.

The project uses cross and natural ventilation to supply and dispose air throughout the indoor spaces. The building uses outdoor air inflow through the major openings caused by pressure difference between the building and its surroundings to provide ventilation and space cooling with warm air rising through the higher openings to be disposed at the roof level. Here, the Fibonacci ratio was applied in the placement of windows in relation to the ground. This gives a unique and aeronautical appearance to the general for, resonating with the campus core mandate.

Rain water harvesing incorporated by provision of underground water storage tank. The water is used for general cleaning purposes, irrigation of gardens and recreational use.

We used EPS composite walls to reduce on solar heat absorption and maintain internal temperatures with minimal variations throughout the day

The development also uses a brilliant Maasai red external wall finish to recreate and give an African feel. The use of EPS Panels and Structural steel elements also enabled faster construction due

Fig 11: The interior volume of the church enclosed by steel and EPS to give maximum volume.

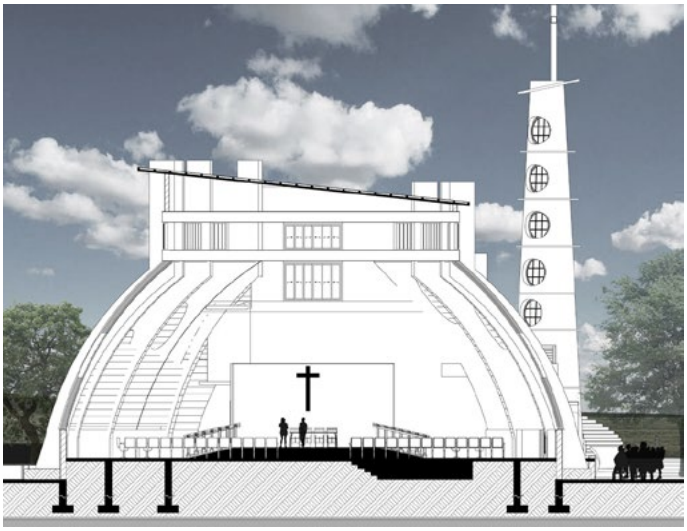


Fig 12: Cross-section - Natural inflow and outflows plus height.

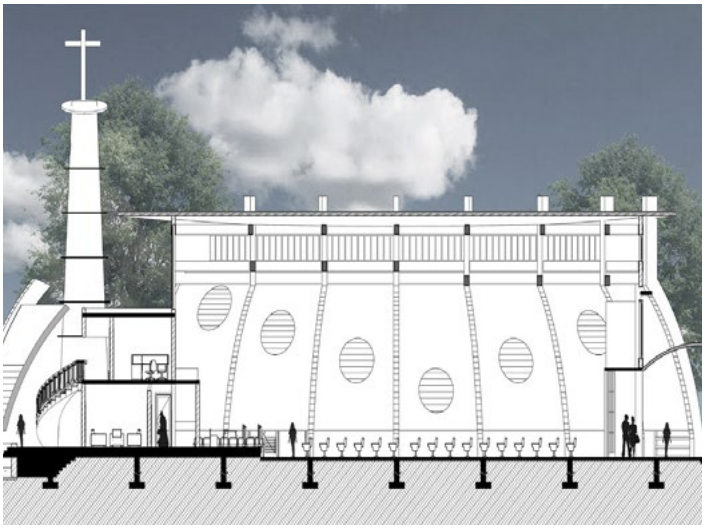


Fig 13: Longitudinal section - Natural ventilation/ daylight.

Fig 14: EASA Chapel - EPS and Steel Technology.

AUTHOR BIO

Charles Ogeto is the Director and Founder Maestro Architects Ltd, AAK Member, BORAQS Member BOGs in several schools and a Senior Project Architect.

How emerging technological trends are changing Construction Management

By Carol Njeri

Improving productivity and profitability has been one of the most significant challenges facing the construction industry. When compared to other industries, the construction industry has had the lowest productivity gains over the years. This makes the industry ripe for the new industrial era known as Industry 4.0, which aims to digitalize and automate the manufacturing and construction industry. Industry 4.0 comprises various technologies such as Blockchain, 3-D printing, Nanotechnology, Virtual and Augmented Reality. Other technologies gradually taking recognition within the construction industry are drones, Artificial Intelligence, and Building Information Modelling (BIM)

The adoption of these new technologies is revolutionizing how the site's daily operations are performed and construction management. Continuous adoption will lead to increased productivity, improved quality, improved site safety and enhanced decision making. Inherent risks the construction industry faces such as delays due to inadequate management practices, poor communication among stakeholders and delayed payments will be forestalled. Some of the ways construction managementwillchangeinclude:

1. Site inspections

The emerging technological trends have enabled the increasing replacement of the human element in terms of visual inspection. Drones, Unmanned aerial vehicles and Remotely Operated Vehicles are being increasingly deployed to oversee large areas of work significantly reducing the survey time for construction managers. This allows for the collection of real time site information which is then used to check for site progress and productivity while mitigating risks involved such as when inspecting hazardous environments.

2. Collaboration among parties

Ineffective collaboration is an eminent problem facing the construction industry especially during project delivery. Emerging technological trends through different software are seeking to change this and bring harmony into the sector. The use of Blockchain technology allows all stakeholders to access shared ledgers hence all parties and stakeholders to a project are updated on all project changes and data is readily available yet secure. The most significant benefit associated with this Blockchain technology is decentralization and transparency. Similarly, applying the Common Data Environment (CDE) on BIM allows for different parties to always have access to up-to-date project information.

The Internet of Things expedites communication and decision making such as through predictive analysis on different subjects.

3. Contract Management and Administration

Paperwork will be significantly reduced due to the Internet of Things. Payment applications, clarifications, Requests for Information, Change orders will be submitted to online systems allowing all project parties to access them in real-time. In large projects where a lot of data is exchanged, systems are essential to avoid things getting out of control. There has also been the emergence of smart contracts. Smart contracts will enable automatic payments to contractors and subcontractors, provided the set contractual conditions and clauses are met. The main focus of smart contracts is on the automation of the contracts to reduce mistrust among parties and improve the efficiency of contract participants. Moreover, contractors can submit claims on the platform, and tracking can be done on updated variations. Disputes will hence be reduced since there are permanent transactions documented, providing a basis for future reference.

4. Design

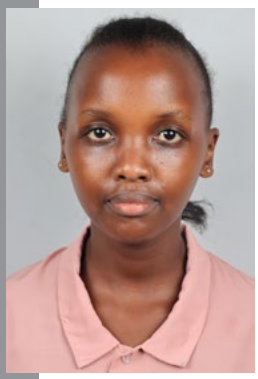
To mitigate rework issues, Building Information Models (BIMs) have been utilized to assist construction stakeholders in detecting conflicts and problems in projects beforehand. With Virtual reality, the project can be viewed before construction and its suitability reviewed with the client and stakeholders. 3D modeling allows model manipulation to test the effect of design changes before they are implemented on site. This aids in the cost and time management of a project. The use of BIM also allows different project consultants to concurrently work on the design of the project while greatly accelerating the design process.

5. Health and Safety Management

Construction managers will be able to effectively manage the implementation of health and safety practices on site through the use of wearable devices. These devices can detect fatigue risk, high heart rates, and stress among laborers. Hence, construction managers can be alerted of any danger through the sensors and real-time locating systems thereby averting accidents on site.

AUTHOR BIO

Carol Njeri is a Final Year Construction Management student at Jomo Kenyatta University of Agriculture and Technology. She is exceptionally passionate and zealous about various construction matters and pertinent issues facing the industry. Over her student years, she has extensively pursued further knowledge on construction matters keeping her abreast of the multiple developments. Moreover, she has participated in various professional bodies forums and her attachment experience on various sites has greatly equipped her for the practice. Her exemplary diligence and proactive nature led her to win an award at a construction manager's student competition. Ultimately, she looks forward to practicing Construction Project Management.She can be reached through **njeri.ncarol@gmail.com.**



Street Vendor Design Catalogue

By Bruce Mugola

Design as business model is often seen as a service for those with a means to afford it. This constrains the services offered by designers to the few with the means to afford it. The many with no means are let to their own devices – to create and shape their own environment. The challenge facing the next generation of designers is not whether we are going to better the designs of those with the means but rather how we are going to turn our focus to design for those without the means to afford it.

Urban streets today are littered with informal street vendors. On the streets of Nairobi, they have literally taken over the walkways. There is little to no space left for pedestrians to walk on as a result. Most of these vendors display their products flat on the ground on top of a sheet, some have table platforms, and some just stand or walk displaying what they sell. All these platforms have been designed by amateurs and exist outside legal regulation.

Of course, the issue with street vendors on the streets is a complex one that involves various stakeholders and sectors; I believe though that through resourceful and strategic thinking, designers can solve this problem by creating new conditions. This will bring in new values and new questions:

- ***How can we plan & design our streets to accommodate street vending?***
- ***How will we finance this new street model?***
- ***How will designers be able to sell their services to those without the means?***
- ***How will giving vendors the platforms to sell their merchandise affect the economy and the physical environment?***

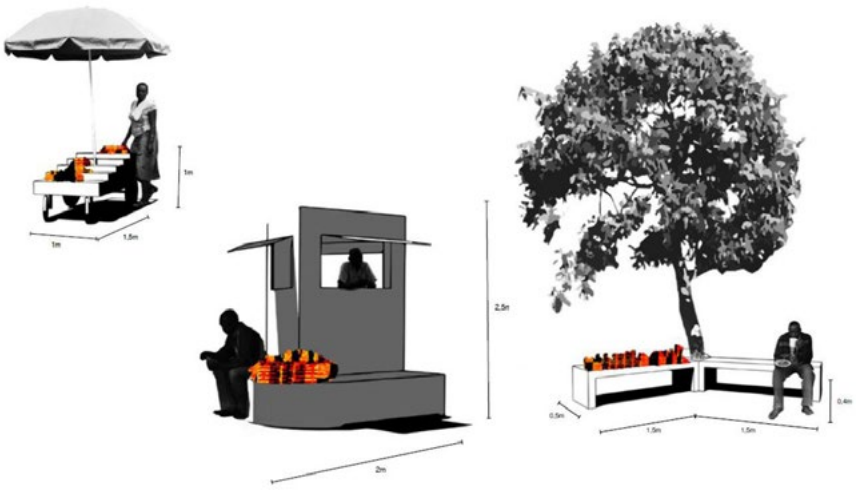
I believe we need to begin with guidelines that shape and dictate how the street functions. These guidelines can be used as tools by decision-makers; urban planners, urban designers, architects, landscape architects, and service engineers in private sector and at the county to develop the street to have the needed elements for facilitating vendor activity. The guidelines can include instructions concerning: public waste management, public washrooms, public water harvesting, public workshops, storage facilities, greenery, street furniture, pavement, drainage, crossings and traffic.

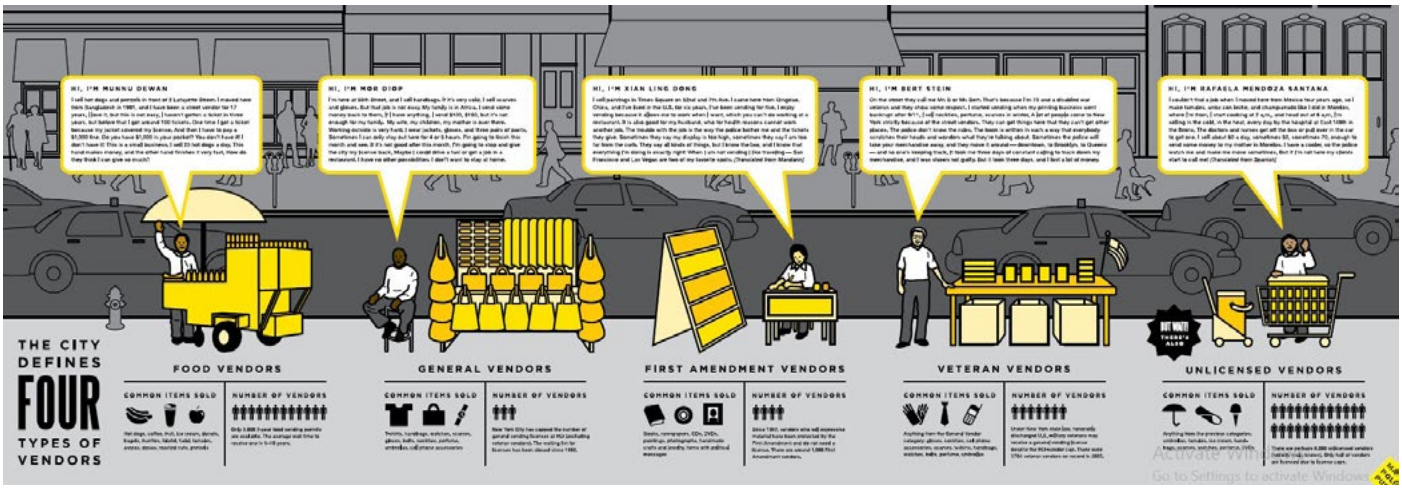
I am going to focus on designing and creating platforms/structures for street vendors – mama mboga, sweet sellers, fruit sellers, mitumba seller, hawker etc. Although mostly operating outside the legal regulation, with proper planning they can be incorporated in the legal framework. The digital economy with the free flow of information has been a great revealer. With new fields emerging in the digital arena everyone is seen free to craft their own identity and chart their own path. On social media local businesses have been able to set up their presence.

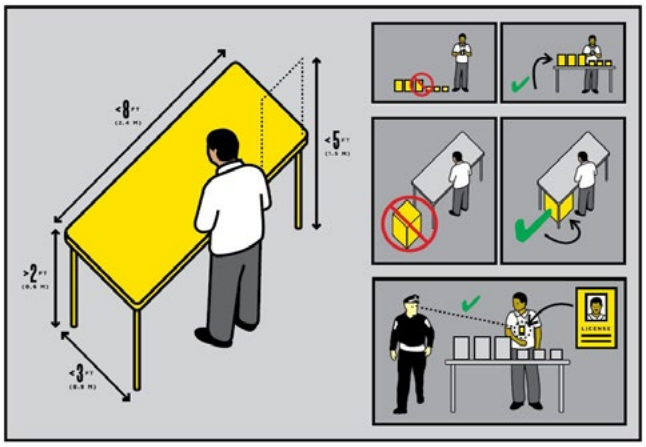
These online businesses are then able to custom make their presence online within the various social media platforms. The physical arena can see designers play a role similar to that of the social media platforms. By creating platforms for vendors to display their merchandise, vendors can choose the different custom made designs to display their merchandise. This will enable a more humanistic and sustainable approach.

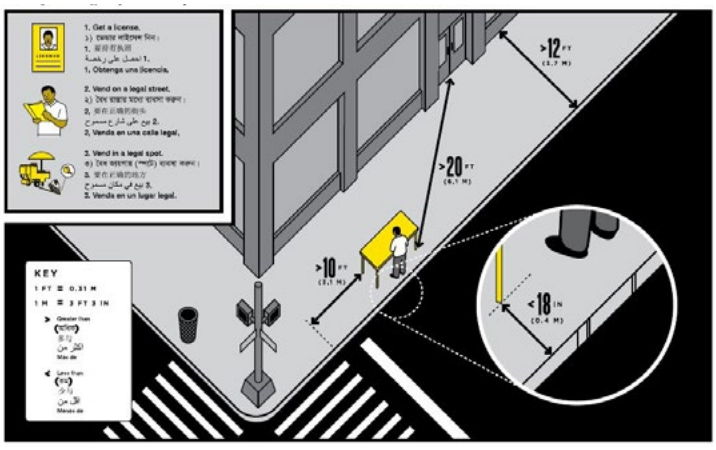
A precedent study: vendor power; a guide to street vending in New York City is fighting make vending laws work better for vendors. It's doing this by providing catalogues that help street vendors to know their rights and the law governing street vending. New York City legally identifies and issues licenses to four types of vendors: Food vendors, General vendors, First amendment vendors and veteran vendors (see image).

I am currently looking to design a street vendor design catalogue in the local context. By documenting the existing condition, looking at the county laws governing street vending and collaborating with various designers to come up with a framework that can begin the conversation to provide better platforms/structures for our street vendors.









AUTHOR BIO

Bruce Mugola is an Architectural Technologist at Urban Dynamics LLP

Bringing the Real World to School through BIM

By Brian Boit

"The measure of intelligence is the ability to change." "The only thing constant is change." "Change is inevitable." Thus, have poets and sages from past ages quipped and waxed lyrical. And technology took the class seriously. In just a century we moved from steam locomotives to flying aeroplanes, and in another half, we were conquering space.

With outer space conquered, we came to cyberspace; and from the clouds, the ICT sector introduced cloud computing. Enter the 21st century and the saints of AEC came marching in with construction technologies such as prefabrication, modular construction and 3D printing, and digital construction technologies such as reality modelling, and artificial intelligence (AI). Yet the groundbreaking paradigm appears to be Building Information Modelling.

BIM proclaimed itself the messiah to resolve many challenges that had plagued the construction industry. Established on the triple principle of digitization, simulation and collaboration, BIM resolved common challenges including multiple reworks, overall design variations, ineffective construction cost estimation and inability to schedule and sequence work with accuracy. Add to that the benefits of clash detection, improved onsite communication and collaboration, more accurate and immersive visualization (3D visualizations, virtual reality and augmented reality), better coordination, enhanced prefabrication and streamlined facility management.

Certainly, BIM has been revolutionary. Then COVID-19 pandemic came, and compelled the AEC industry to look for smarter and safer ways for building residential and commercial spaces. The World Economic Forum lauded how "construction powered by digital technology [where BIM falls] can help safely create sustainable, high-quality housing at speed", and "using big data and artificial intelligence throughout the design and construction process can transform the building sector and help provide sustainable, affordable housing for all".

The African AEC industry is not lagging behind in this development. The African BIM Survey by BIM Africa has revealed that there is 90% awareness of BIM and 20.6% adoption. Yet the big Q is this, are our schools ready for the revolution? If BIM adoption is ever to be a success, the movement must establish its roots in our institutions of higher learning. Why? It is from hence that the next generation of professionals and practitioners will emerge. A seed early planted, is a forest secured.

Moreover, adoption of BIM is much easier (and cheaper) in schools than in the industry. Zulfikar Adamu and Tony Thorpe in a research paper, identified cost of resources and training as the greatest barriers to adoption of BIM in UK. However, the most common BIM-related tools used in our schools of architecture have student licenses which are free. In addition, their websites offer numerous educational materials for free or at waivered costs to the students! Our pedagogical systems need to also improve the structure and content used to teach BIM. One of the core principles of BIM is collaboration. While interdisciplinary collaboration has always, and of necessity, characterized the design and construction process, the BIM process has enhanced it a great bit by embracing simultaneous collaboration over linear

operation. Yet even before BIM, there was still little to no interdepartmental collaboration throughout the whole period of schooling.

International cases to be benchmarked include the University of Nebraska-Lincoln (Architecture) and University of Wyoming (Architectural Engineering) in the US which have embraced an inter-university distance collaboration while teaching BIM to simulate real-life collaborative working across geographical distances. In a recent BIM Africa competition, my team attempted such a real-time distant collaboration on a project with limited success. It was a worthy attempt though.

The teaching of BIM is yet to be integrated into the full spectrum of units covered under the AEC courses. BIM appears as a specialization rather than the underlying process of collaborative design, construction and operations of buildings. Loughborough University in UK approached this challenge by embedding the teaching of BIM in its postgraduate courses on construction management, architectural detailing, construction economics and building maintenance, with an interdisciplinary approach to teaching. The students move progressively from being introduced to the fundamentals of BIM, through the principles of collaboration and interoperation to collaborating on a multidisciplinary project. Another good case is the Solar Decathlon®, a collegiate competition organized by the U.S. Department of Energy, where students collaborate to "design and build high-performance, low-carbon buildings that mitigate climate change and improve our quality of life". Such approaches to education and competitions are ripe ground for students to learn the fundamental principles of BIM, and thus be readier for BIM adoption, while improving their hands-on skills and industry readiness.

Technical know-how is fundamental to BIM adoption. Good thing, many of the software developers are open to conducting trainings in the institutions of higher learning whether to teach the basic and advanced capabilities of their own BIM tools, or to showcase their latest technologies and their relevance to the local practice of design and construction. I have been privileged to invite retailers of the two most common modelling softwares to TUK with great impact on the students.

Finally, students are young, and consequently, very versatile. They can quickly embrace and improvise the day-to-day technologies and the mundane educational process for a more thrilling and impactful academic experience. With COVID launching much of our learning and meetings to virtual spaces, digital communities can be formed on the various social platforms where students and industry leaders can connect, collaborate and partner – a sort of digital studio culture.

With the wonderful precedence set by organizations such as AAK and BIM Africa, schools housing the AEC courses can also organize competitions that demand interdisciplinary collaboration. Such small steps will result in students well equipped technologically, well-informed and industry-ready.

Collaboration, integration, competitions, technical information and improvisation of the normal – these are but a few of the basic building blocks by which we may begin building our BIM-mature AEC industry. Practitioners, developers and academia are the key stakeholders in ushering the students to the future. So, ladies and gentlemen, shall we?

AUTHOR BIO

Brian Boit is a student of architecture at the Technical University of Kenya in his 6th year. He is currently undertaking his academic thesis on Heritage-BIM. He is also a Committee Coordinator at BIM Africa.

Digital Site Mapping and Change Detection using Artificial Intelligence

By Brian Babu Kariuki

The World is changing every day and monitoring that change on ground can be a tedious and labour intensive task. What ways are there to automate this task?

Foundations of Digital Site Mapping

Before we get to the digitization of sites, there are a few principles and terminologies to understand. Geoinformation is the science and technology dealing with the structure and character of spatial information, its capture, classification and qualification, storage, processing, portrayal and dissemination.

Geography and earth science increasingly rely on digital spatial data acquired from remotely sensed images analysed by geographical information systems (GIS) and photo interpretation of aerial photographs.

Applications

- *Global Navigation Satellite Systems (GNSS):* Refers to a constellation of satellites providing signals from space that transmit positioning and timing data to GNSS receivers.

- *Photogrammetry:* The science of making measurements using photographs. Photogrammetric analysis is applied to photographs, to detect, measure and record complex 2D and 3D imagery by feeding images into computational applications.

- *Remote Sensing:* The science of obtaining information about objects or areas from a distance. Remote sensors collect data by detecting the energy that is reflected from Earth. These sensors can be on satellites or mounted on aircraft.

- *Spatial Analysis:* Spatial analysis is the process in which you model problems geographically, derive results bycomputer processing, and explore and examine those results. The idea of stacking layers containing different kinds of data and comparing them with each other based on where things are located is the foundational concept of spatial analysis. The true power of Geo-information lies in the ability to perform analysis.

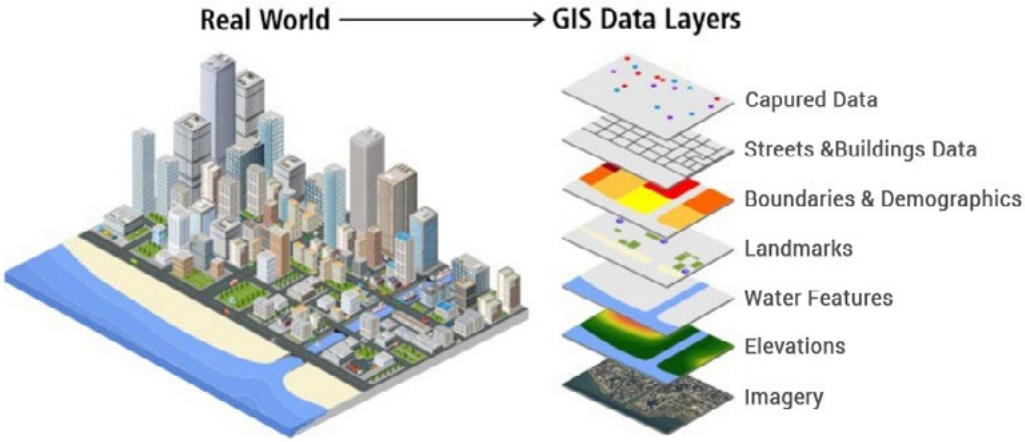
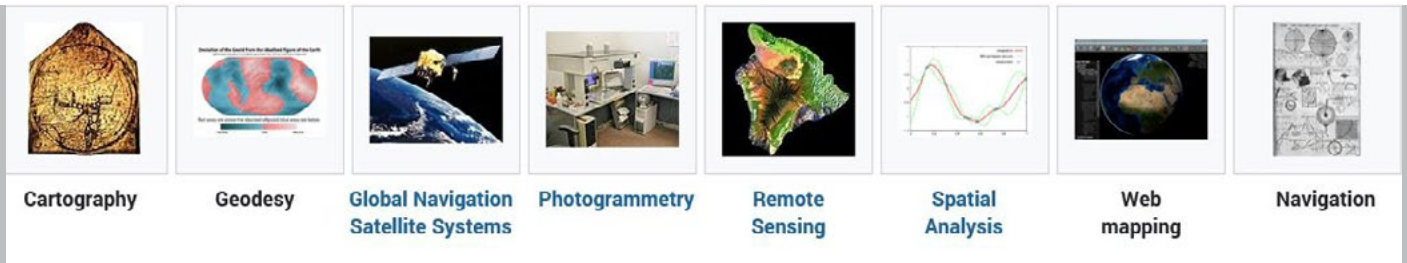


Figure 1: Spatial Analysis using GIS maps that combine layers of data representing real world locations and entities



Applications of Geo-Information

Digital Site Mapping
Digital mapping is the process by which a collection of data is compiled and formatted into a virtual image. The primary function of this technology is to produce maps that give accurate representations of a particular area. Unmanned aerial vehicles (UAVs) and satellite constellations are both essential Earth Observation (EO) systems for monitoring land surface dynamics and producing high resolutions imagery and maps.

The levels of detail of data obtained from these systems offers the potential extraction of a range of multiresource management information, such as tracking growth of cities, precision farming and forest gap sizes and distribution.

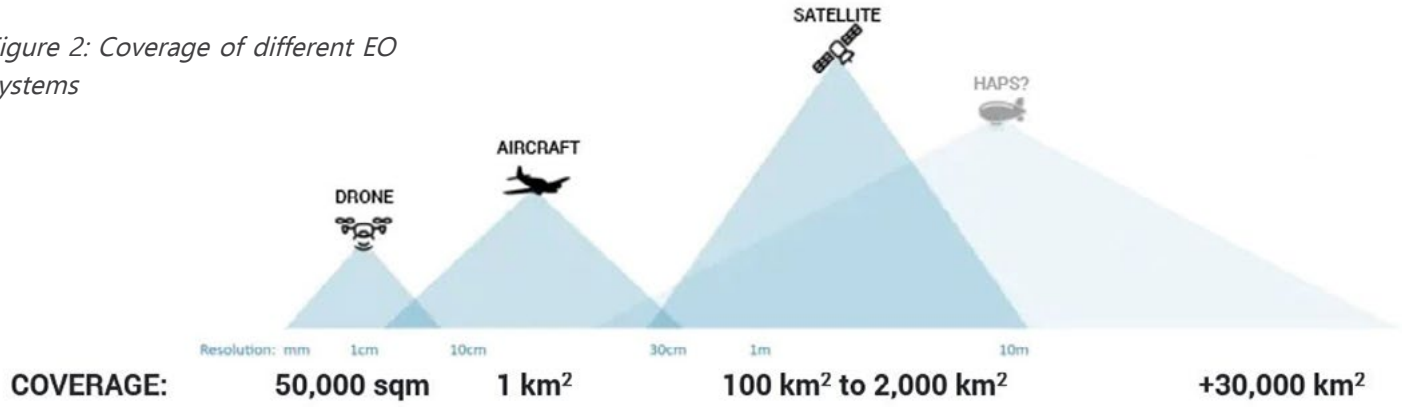
Drone surveying. What you need to know...

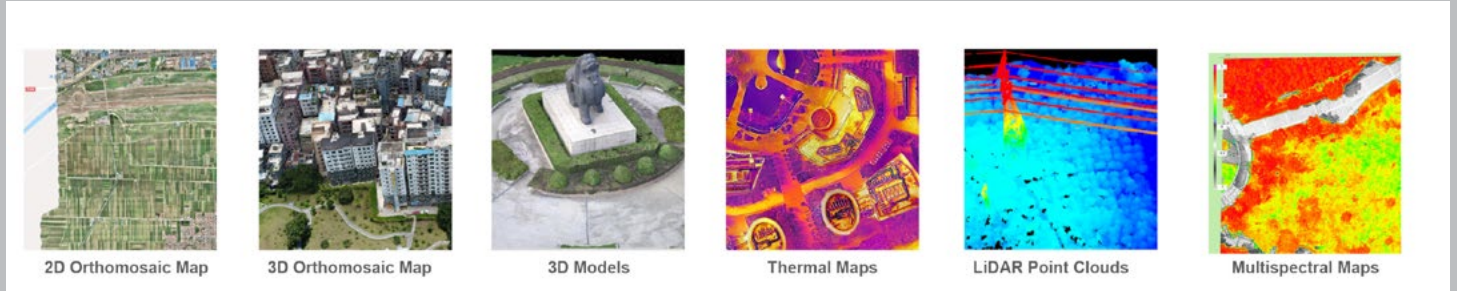
A drone survey is simply a survey conducted from overhead using a drone. Unmanned Aerial Vehicles, excel at rapidly acquiring data from vantage points inaccessible to humans. In an independent study by Drone Deploy, drones achieved 2cm relative vertical accuracy and 1.20cm relative horizontal accuracy.

What kinds of deliverables can you achieve with Drone surveying?

With their ability to capture data from above, drones have been successfully integrated into surveying workflows to perform land surveys, photogrammetry, 3D mapping and topographic surveys. Surveys provide critical information that enables informed decision-making ranging from construction, site planning, to design and upkeep of infrastructure, to delineating cadastral property boundaries, and more. Depending on your choice of data sensors and software, drone surveying can produce a variety of deliverables with use cases in many industries.

Figure 2: Coverage of different EO systems





Types of Maps

What does a typical drone surveying workflow look like?

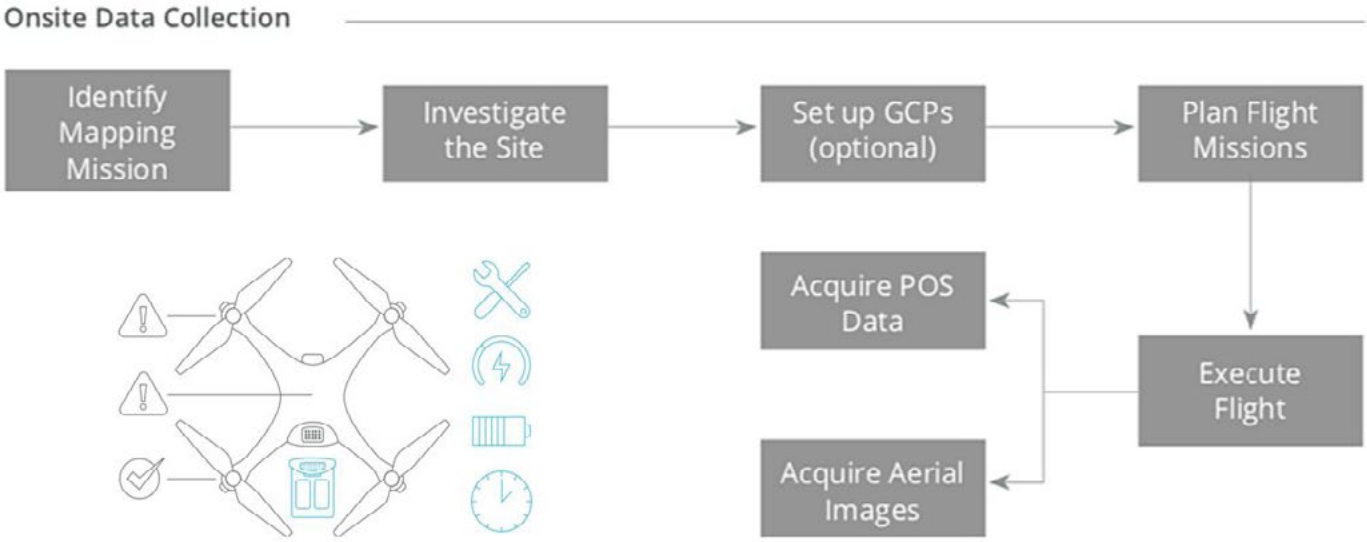


Figure 3: Drone Survey workflow

Conducting a drone survey

A growing number of apps can transform a regular consumer drone into an accurate surveying and mapping tool. There are various photogrammetry software that are perfect tool for plan flight missions and automatically capture images along with GPS data. Post-flight processing of captured images is done in photogrammetry software, generating highly accurate, metric and geo-referenced results, such as dense point cloud, 3D mesh, topography map, elevation model, DSM and orthophotos.

Types of Unmanned Aerial Vehicles (UAVs) for surveys

With all the benefits drones bring, and with so many surveying drones to choose from, it raises the question, which is the best drone for surveying?many industries.

Multi-rotor Drones (UAV)

Multi-rotors are UAVs that use more than two rotors with fixed pitch spinning blades that generate lift. They are the easiest and cheapest option for getting an 'eye in the sky'. They give great control over position and framing. The downside of multi-rotors is their limited endurance and speed, making them unsuitable for large scale aerial mapping, long endurance monitoring and long distance inspection such as pipelines, roads and power lines.

Fixed-Wing Drone (UAV)

Fixed-wing drones look like an airplane, with a central body, two wings, and one or two propellers. They fly much faster than multi-rotors, so they work great for large worksites. They can cover longer distances, map much larger areas, and loiter for long times monitoring their point of interest. Many fixed-wing UAVs can stay aloft for hours.

Figure 4: Different types of flight missions conducted for a variety of use cases

Spatial Analysis

The value of the data collected by drones lies in improving decision making. For instance, improving city resilience implies a series of decision on future infrastructure standards, current infrastructure state, areas of high risk and budgetary constraints. Drones can collect very detailed information high resolution imagery on some of these aspects,

How do we make data actionable by policymakers and demonstrate the value of aerial mapping? *Deep learning approach for building detection:*

AI can aid in building detection in satellite and aerial imagery and is crucial in city management. Buildings are one of the key pieces of cadastral information related to population and cities and are fundamental to urban planning & policymaking.

Picterra is one software example of deep learning approach for building detection that cuts 90% of the cost, time, and other resources spent on analysing geospatial data. It is a Machine Learning-powered Software-as-a-Service geospatial platform enabling businesses to autonomously extract intelligence & analytics from satellite and aerial imagery.

Figure 5: Mapping buildings under construction in Tanzania, identified by the finalists of Tanzania Open AI Challenge organized by Tanzania Flying Labs. The building identification and change detections on Picterra only took minutes!

AI Spatial Analysis Applications

In small areas, a lot of tools allow you to manually outline buildings, roads, and other relevant features. However, what if we look at an area of 100,000 buildings? Manual digitization would take weeks and may lead to human error. This is where AI help automate this process with minimal investment in time.mapping?

AI application users build and deploy unique actionable and ready-to-use deep-learning models, quickly and with ease. Thanks to pre-trained base detectors, only a few human-made annotations are needed to identify and monitor any object or patterns at scale, anywhere on Earth.

This has allowed development of custom detectors tailored to the local authorities and contexts creating dataset that are actionable to local and regional policy makers. The use of drones at construction project sites has expanded dramatically in just the last five years. With attractive price tags and centimetre-level accuracy, UAVs offer an efficient means of keeping track of progress at a neighbourhood, city and even country wide level. Identifying buildings in satellite, aerial, and drone imagery can be done quickly and easily. A deep learning approach for building detection is proving to bring highly accurate results for a fraction of time and cost that otherwise would be spent on manual work.

AUTHOR BIO

Brian Babu is an Architect with a focus on innovation. He is passionate about evidence-based analytical and capacity building solutions to emerging challenges of devolution such as: affordable self-sustaining housing, community based development processes, advocacy for use of locally sourced construction materials and construction technology and enhancing service delivery in devolved sectors including agriculture, health, water, and urban renewal.
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Communication Practice is Vital for Built Environment Firms

By Lina Jamwa - Musibi

It is vital for every business to attract clients. Advertising, sales, and marketing therefore play a vital role in achieving this. Professional firms are however barred by law from advertising their services competitively and hence must come up with innovative ways of reaching their target clientele. This is where communication practice comes in. Communication is the skill of perception creation and goes a long way in creating lasting, meaningful relationships with a firm's clientele, both actual and potential. Firms in the built environment can embrace communication practice to enhance their businesses and get clientele.

Brand positioning

Every firm has a personality - a face that its clients (actual and potential) can identify with. This is the face that communicates trust, experience and knowl edge among other key elements that make the client trust your business. Communication professionals play a vital role in positioning brands. From carefully advising on the correct colouring to visual aspects of the brand, they position the brand online and offline. They give the brand a face that can be recognized by its target clientele.

Catching the client's attention in an already noisy world

Today's consumer is bombarded by all manner of messages from brands desperately trying to market their goods and services. It is very easy for a firm's message to get lost amidst all the noise. Communication professionals know how to craft messages that hit the target market right where they need it. This often results in sales for the particular firm.

Perception creation

One may be selling a red apple that is slightly soft and appear a little unappealing to the customer. Communication professionals have a way of creating perception and positioning such an apple as the best thing that ever happened to a human being. They can bring out the salient benefits that the Apple has to general health and make the customer purchase it nonetheless. This is the art of perception creation. Communication practice is vital in the creation of the desired perception. This becomes an asset for any built environment firm looking to shape the perception of its clientele regarding their firm and business in general

Media relations

Most firms desire to grow to a point of getting media attention. Dealing with the media can

Communication professionals know how to craft messages that hit the target market right where they need it. This often results in sales for the particular firm.

sometimes be a tricky affair. This is because sometimes what is newsworthy and reported does not position the said business in the desired manner. Careful handling of the media therefore becomes something that every firm needs to incorporate into their business in order to avoid situations where what goes out to the media does not portray the firm in good light.

Crisis management

In every industry there are crisis situations that cannot be avoided. Some firms collapse after going through a crisis. In the built environment, firms can be faced with heavy legal suites emanating from disputes encountered at work. They can also be faced with stringent laws that might result in loss of business, or a situation like the pandemic may arise, as recently experienced globally. Whatever crisis a firm may face, their existence can be salvaged by careful, timely reaction and communication with its clientele. Communication professionals are skilled to craft ways in which a business can communicate and recover from a crisis.

Content development

Built environment firms play a key role in creating magnificent skylines throughout the world. A lot of work goes into this. However, if this is not documented creatively, the potential client might not know what has been achieved. Communication professionals can creatively craft content that can respond to particular interests of the potential client. These can propagate the firm's image in the face of its potential client and get them business.

Strategy

Communication practice calls for careful listening and following of the potential client's information consumption trends as well as areas of interest. Data harvesting plays a vital part in achieving this. Firms can listen in on their clients' and potential clients' interests and from there, craft strategies that specifically respond to their needs.

It is important that built environment firms incorporate communication practice in their day to day businesses as it plays a vital role in the overall propagation of business.

AUTHOR BIO

Lina Jamwa – Musibi is the Membership and Communications Manager at the Architectural Association of Kenya. lina@aak.or.ke

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2080	MAGAMBO KAIRIMA
2083	SARDELLI MARCO EMIDIO
2085	KIMANI DAVID
2097	WAITITU LEE
2099	NDETA BENSON
2102	MUTUKU MUTUA
2106	MUTISO E.K. ESTHER
2109	SIFA MAHALI ROBERT
2114	ONYANGO DENNIS
2116	MATIVO JUSTUS
2118	GITAU LAWRENCE
2122	VIRDEE SATPAL SINGH
2123	MWANGI SAMUEL
2124	HALAI KETAN
2130	KIMANI DANIEL
2132	ADEYA ARTHUR
2133	ODUORI RICHARD
2134	MUKEKU JOSEPH
2135	ODULA TERESIA
2136	OGWAPIT STEPHEN
2137	WACHIRA PETER
2140	MUNENE GABRIEL
2141	GITHUTHU (MS) RITA
2142	MAWEU COSMAS
2145	SURE JOSEPH
2146	RAI JAMES
2153	MUGURE NJENDU
2154	WASILWA PETER
2155	GUCHU JOHN
2156	MOTANYA DOMINIC
2157	KAMAU FRANCIS
2163	NGUURI MURIMI MURINI
2164	SUERO MAXWELL
2173	VINCENT MICHAEL OCHIENG
2174	MAINA DUNCAN
2175	NG`ENY STANLEY
2181	NJUGUNA ANTHONY
2182	GREMLEY ANDREW
2191	KEDOGO JOSEPH
2193	MUTUA JACKSON
2194	PATEL SUJESH
2201	MBURU MICHAEL
2202	ABDULNASSIR MOHAMMED
2240	MUCHAI JOHANA
2254	NDUNGU KENNETH KIMATHI
2255	DR ARCH MUGWIMA BERNARD NJUGUNA
2301	WAWERU ROSE
2302	ODUOR EDITH
2303	MAHINDA IRENE
2305	GONO EMMANUEL
2306	MUTAKAA JOHN
2307	TOROITICH CALEB
2308	KITHAKA JOHN
2312	NYAGAH ALEX
2318	KIEMA MARGRATE
2319	OYUGI OTIENO
2320	NAMULANDA D.M.
2321	KIAI SAMUEL
2325	OGWANG' G.
2326	NGODA KITAWI
2328	OSIAGO P.V.

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2329	RAJNOVIC PREDRAG
2333	MACHARIA WILSON
2337	MWANGI BENSON
2338	KARIITHI JOHN
2342	NYAMATO STEPHEN
2344	GITHENDU JAMES
2372	BISHER FAWAZ
2373	GOME STEVE
2374	WAMBETE SOITA
2376	NDAMBUKI DOUGLAS
2378	WATOLA C.A. CYNTHIA
2379	OHAWA EDWIN
2380	GICHUHI SIMON
2381	AGWARO KENNEDY
2382	MAITHYA MUSUNGA
2385	KEEGA JOSEPH
2386	GATAI HENRY
2388	NAMULANDA GYAVIRA
2390	MBOGO DAVID
2393	KAGIINA JOSEPH
2405	WAMBUA JOSEPH
2406	CHANDABHAI ABDE ABI
2407	KYENGO MARTIN
2409	SINGH JASPAL
2410	RALWALA ANTHONY
2411	MWAURA NELSON
2415	CHARFARE ASIF AHMED
2416	MUCHERU SAMUEL
2418	KOMORA SALIM
2421	MUSUVA MUMO
2423	MATHENGE JONATHAN
2424	NDERITU PETER A.M.
2428	OGALO ALEX
2429	GACHANJA JOSEPH
2432	OUNDO JOHN
2433	OWADE FRANCIS
2434	MWENDO FRANCIS
2435	WEKESA DOUGLAS
2437	OTIENO EVANS
2438	MECCA PEPELA
2443	KAMAU DAVID
2445	LATI FELIX
2446	ONGUTO OSCAR
2451	NYONGESA ANDREW
2455	SANG JULIUS
2463	PATEL KUNAL
2466	BURER CAROLINE
2467	KINGOO CHARLES
2468	KASANGA SYLVIA
2501	MUTAI EVANS
2502	NJERU PETER
2503	NGUMUTA MICHAEL
2504	IRERI JACK
2507	NAICCA CHRISTOPHER
2508	MANJI ALEEM
2509	MWIHIA JOYCE
2510	KAMASI MATHEW
2512	EMMA MILOYO
2513	WAMBUGU KENNETH
2515	GICHUGU ERNEST
2516	NYAGA JOHN
2517	MUCHOGU JOSPHINE
2518	OJWANG' PETER
2520	ANJARWALLA SHAFFIQ
2526	OSIDIANA DENIS
2527	OLUOCH JARED
2528	MICHIRE DAVID
2529	AGGREY MAGANGA
2530	ADEGA BRYAN
2531	NJIHIA GEOFFREY
2533	ADAMJEE MURTAZA
2534	NJENGA DAVID
2535	KINUTHIA SIMON
2536	GITAU HENRY
2537	WAHINYA CECILIA
2539	NYONGESA BOBU LEMMY
2543	MANGURO ROBINSON
2546	NYAGA DAVID
2548	GITHATU FRANCIS
2581	MBURATHI STEPHEN
2582	ATOLA SHADRACK
2583	NDANU ROY
2585	BABU SUNDAY
2587	KIGAI EDWIN
2588	MACHARIA ANTHONY
2590	GITHINJI STEPHEN
2591	MWANGI EUTYCHUS
2592	OUKO TOM JOSEPH
2593	MUNGAU KATHERINE
2595	KIGADA ERIC
2596	KIILU MAKENZI
2599	MATOLE DAVID
2614	SONGORO DAVID
2615	KIBOWEN KATHY
2616	KIBAARA ISAAC
2634	MOMBO DENNIS
2635	MWILU STEPHEN
2636	OSORO KEPHA
2634	MOMBO DENNIS
2635	MWILU STEPHEN
2636	OSORO KEPHA
2640	KIOKO JUSTUS
2641	QADRI SAYED YASIR
2644	ABDI ADNAN
2645	MCHARO LEONARD
2646	THUMBI SAMUEL
2647	KARAMA YASIR BREK
2649	MARCO CAROLEI
2653	NDULU MWALYO
2654	SANCHEZ URKO
2655	ALI L.I. LAILA
2656	WAFULA ALBERT
2660	MBITI IRENE
2662	KUMO WILLIAM
2663	SHAH NISHA
2665	MUKABWA EUGENE
2668	KEITANY JOSEPH
2669	MABONGA DAVID
2672	KAMAU MOSES
2674	IRERI PATRICK
2679	KAMAU ISAAC
2680	KURIA JOSEPH
2681	GIKERA IRENE
2683	NJAGAH MICHAEL
2686	NDICHU NINA SYOMITI
2691	KAHUTHU CHARLES
2695	AHMED MOHAMMED
2714	KIMANGA SAMUEL
2715	SINGH MAYANK MAYANK
2716	KIBISU LINUS
2719	CHIIRA JASON MUTAHI
2726	GITAHI MARK
2727	MAREIRA FESTUS
2735	WILLIAM KENNETH
2736	KINYUA EVANS
2737	KARUGA VICTORIA
2738	MRUTTU OTTO
2748	OBALA PASCAL
2749	KABUTU JOSEPH
2750	KAMWERU GEORGE
2751	OPIYO GAD
2773	MUNGA MOSES
2774	NYACHWAYA WYCLIFF
2778	SULEIMAN IMRAN W
2779	MWANGI MICHAEL
2780	OUYA DAN
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2672	KAMAU MOSES
2674	IRERI PATRICK
2679	KAMAU ISAAC
2680	KURIA JOSEPH
2681	GIKERA IRENE
2683	NJAGAH MICHAEL
2686	NDICHU NINA SYOMITI
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2695	AHMED MOHAMMED
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2719	CHIIRA JASON MUTAHI
2726	GITAHI MARK
2727	MAREIRA FESTUS
2735	WILLIAM KENNETH
2736	KINYUA EVANS
2737	KARUGA VICTORIA
2738	MRUTTU OTTO
2748	OBALA PASCAL
2749	KABUTU JOSEPH
2750	KAMWERU GEORGE
2751	OPIYO GAD
2773	MUNGA MOSES
2774	NYACHWAYA WYCLIFF
2778	SULEIMAN IMRAN W
2779	MWANGI MICHAEL
2780	OUYA DAN
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2786	KYALO STANLEY
2787	KIMANZI TONY
2806	MWATU ONESMUS
2807	KARIUKI STEPHEN
2811	NJERU JOHN
2818	ONYOYO MICHAEL
2819	KIBE GIBSON
2820	ISMAIL ABDI
2823	ODINYO ALISO
2824	WETUNGU CALEB
2825	NGUNGUI JERUSHA
2826	ACHANDO JOHNSTONE
2827	NDOLI JOSHUA
2832	KINUTHIA HELLEN
2843	MURIITHI JAMES
2847	GATOME MARYCLARE
2851	AGUTTU MARY
2863	ONYANGO DENNIS
2864	OMBOTO BONIFACE
2865	THETHY JATINDER
2872	MUKUI MURIU
2874	HIUHU EDWARD
2875	TOROITICH KIBET
2876	SIKHILA HAM
2879	OGINGA JOSEPH
2881	ONYANGO PAUL
2883	OMBIMA VICTOR
2891	KARANJA DENNIS
2892	MUTIE C.M. CHRISTOPHER
2897	WAMBUA PIUS
2904	KEBENEI JUDY
2905	KABERE JULIET
2907	MAKAN EVANS
2915	ASUBWA WESLEY
2917	GOKO GEORGE
2934	OKELLO NOEL
2967	KIRAGU DOUGLAS
2974	KAMAU JAMES
2975	KITHISYA DAVID
2982	MBOGO SAMUEL
2983	MUGUIYI MAUREEN
2984	KANGETHE DAVID
2987	WAIGANJO SAMUEL
2988	MUREY ERNEST
2992	MACHARIA JAMES
2994	MISEDA ERIC
2995	WARFA ABDUL RAZAQ
2996	NAWAMBA GERALD
2997	KELUNYO IVAN
2999	NYADIDA MARTIN
3000	NDIRITU GEORGE
3060	GATHECHA NAOMI
3064	OWINO JAVAN
3096	MBUGUA HENRY
3097	MUNDIA THOMAS
3098	SEHMI JASRAJ SINGH
3102	NDEGE LUKE
3108	NGATIA E.M.
3109	WERE CHRISTOPHER
3110	OGONJE ALLAN
3119	ALOYO PAUL
3122	JUMA JACINTA
3125	SUTHAR RITESH
3126	KETOYO LENAH
3132	MBAKA NICK
3137	MWANGI ARTHUR
3138	KILONZO ANDREW
3147	GITHINJI MBURU EDWARD
3149	WERE EUGENE
3151	WOGOH DOMINIC
3158	SEMBHI TARVINDER
3168	NYANGI PETER
3169	MATHENGE AGNES
3188	KAMAU THUMBI
3195	JOSPHAT NGUNDO
3202	ISOE DENNIS
3210	MWANGI MONICA
3211	MAINA ELIAS
3213	MAKAGUTU NOEL
3221	KISIENYA KELVIN
3222	MOORES PAUL
3223	SYENGO KEVIN
3228	SAMOKA KENNEDY
3232	ESSENDI SYLVIA
3250	KAMUNYU ALEXANDER
3261	OYUGI COLLINS
3263	NYAKANG'U TUESDAY
3264	NAMWAKIRA AMY
3265	MALECHE DAVID
3270	MUNYOKI JEREMIAH
3275	KIPNGETICH NICHOLAS
3281	GITHIRI GEOFFREY
3282	MUIRURI ISAAC
3283	WAHOME CHRIS
3287	FRANCIS PATRICK
3288	NJAGI RAEL
3289	MILGO NANCY
3291	OKUTA HEMORIKE
3294	MWALUKO ELIJAH
3295	MOGENDI SURE
3300	ONGUKA LINDA
3301	KAMAU KENNETH
3304	LAGAT DAVID
3306	MUTUNGI MARYLINE
3307	MUNENE LEE
3309	KINYINGI JULIANNE
3311	SALIM MOHAMED
3315	TIMITIM BENJAMIN
3316	NYANGE WILSON
3336	HOFF JOANNA
3381	MOHAMED ATHMAN
3382	GACHANJA PETER
3397	MANGO ALFRED
3398	MUTUA U.M. URBANOS
3399	NDUNGU GERALD
3404	MWANGI BILLY
3415	MUDOME TIMOTHY
3420	HOBAYA IRFAN
3430	MUNALA (DR) GERRYSHOM
3431	MUJIVANE MARK
3432	WARUTERE ERIC
3433	NJOROGE MARTIN
3434	GITOHO BENJAMIN
3438	NASILA MASINDE
3439	MUSYIMI MARYLYN
3444	NYOLE FLORENCE
3445	KAIRU JACQUELINE
3446	Kubai Martin Murimi
3448	OLUGA PRISCILLA
3458	OBUTU IVAN MAGORI
3459	MWAZIGHE JOHN
3492	NJAMBI GABRIEL
3506	KAMUYU ANGELA
3511	GITONGA LEWIS
3528	JONYO MAURICE
3529	NYAGA ALLAN
3530	SEMWOGERERE KENNETH
3539	SHIKUKU JAMES
3608	WAINAINA KEVIN
3609	FAITH MASIBILI
3624	DEOGUN IQBAL
3629	EBOYI JOAN
3655	MUTHUMBI KEVIN
3676	KARIUKI WAGAIYU
3677	NZIOKA EVANS
3680	GITHAIGA DENNIS
3684	PANESAR GURMUKH

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3688	NJERU BILLY
3692	OPWONDI PETER
3693	WARUHIU NICHOLAS
3709	NYAWARA BRENDA
3723	TULON SHADRACK
3732	ESMAIL FIZAA
3747	RAFROUF ALLY ABOUD
3755	OKETCH MIRIAM
3816	MUIGAI JULIUS
3820	BHOYYO PAUL
3831	OKANGA CASMIEL
3837	WAKHUNGU JOSECK
3851	TURYAHABWE RICHARD
3872	MANANI KEPHER
3873	LUTTA STEPHEN
3895	KANJA DAVID
3897	LIKU ASHLEY
3905	FELIX L.O KAWUONDI
3930	SIDNEY E. NDALILA
3931	THOMAS O. ONWONG`A
3932	SYLVIA K. AJEGA
3934	NEWTON KORIR
3940	DENNIS M. MOYO
3941	ESTHER W. MUIRURI
3947	BENDICT M. MUTHAMA
3956	LOUIS O. MUSA
3958	BOAZ K. KIM
3959	GODFREY W. MWAURA
3969	MASEGHE MARTIN TAIRO
3971	CYPRIAN CHOGE
3973	WYCLIFFE WABURIRI
3984	ANVI SHAH
3995	AMER ALI AL-AMOODY
4003	MUCHERU NAHASHON WAGE-MA
4023	WOUTER V. J BRAND
4024	ANTJE CLAUDIA ECKOLDT
4045	GEORGE MOSEE
4047	IRENE MUSYOKA
4099	HERBERT MAKORI
4100	NDEDA SAMUEL
4122	EDWIN MUCHUGIA
4129	NGUMBAU VICTOR
4135	CHARLES NJUGUNA
4163	KRISHNA DEEPAK
4164	KIMANI CYNTHIA
4167	KAMANJA JEREMIAH
4187	JESSE KARANGA KIMANI
4239	JOEL LAWSON MAINA
4246	CALEB MONG`ARE NYAKOIRO
4260	MICAH NYANG`AU OMBATI
4293	NICHOLAS OTIENO OWUOR
4304	ISABEL MUGURE MBUGUA
4316	Emmanuel Gitau Nyoro
4341	Charles Musyoka Akayi
4343	Brian Babu Kariuki
4392	Kivaya Cheye Victor
4393	David Nganga Ngure
4400	DONALD MUHONDA ANDOLO
4453	NAMAGULU CHRISTINE
4603	REUBEN CHERUIYOT RUTTO
4695	Njeri Mutero
4707	Mark Milu Mwoka
4718	Daniel Wairagu Thenya
4755	Njeri James Mwangi
4788	OKEMWA NYAKWEBA MOSES
4933	ODUOR HUMPHREY HASUWO
4941	Mahinda Victor Muriithi
4951	MATOVU JOHN RICHARD
5004	GATHIRU PETER MWAI
5007	Christian Benimana
5053	David Ngugi
5062	Michael Odindo
5071	CHRISTOPHER KIMUTAI TARUS
5347	Jaime Velasco Perez
5389	EPHANTUS KINGORI MUKUNDI
5392	Micah Makworo

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HONORARY

5290	JAMES KIBOCHI

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2375	SHISIA WILLIAM
2392	MBURU GIBSON
2399	ABINCHA ANDISON
2401	NJAGI DAVID
2464	NGIGI LILIAN
2637	PAUL ODHIAMBO OKICH
2638	KANG'ETHE BERNARD
2650	SIOCHA SAMUEL
2651	BIKERI REUBEN
2652	MOHAMMED ALI
2688	KUOGOH GORDON
2721	LIMO LEONARD
2730	GIKANDI JAMES
2813	MUCHUNU ALLAN
2814	WANJIKU DENNIS
2821	MWAURA JOHN

2375	SHISIA WILLIAM
2392	MBURU GIBSON
2399	ABINCHA ANDISON
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2730	GIKANDI JAMES
2813	MUCHUNU ALLAN
2814	WANJIKU DENNIS
2821	MWAURA JOHN

2909	KARANJA MWANGI STEPHEN
3005	ADOTE DAVID
3054	WATAKO VINCENT
3095	OTIENO PATRICK
3170	OGORA BEATRICE
3203	MWANGO WALLEX
3233	KARIMI ANTHONY
3259	MAJIMBO RICHARD
3363	MURIANTHI NEBERT
3372	OMUNJALU STEVEN
3488	OWINO JOB
3672	AWITI CLIFFORD
3852	OMOM TOBIAS
3877	GERALD MAINA
3936	M. KARINGA STEPHEN
4012	TITUS MUTUNE
4015	ELIAS KIMANI KAMAU
4033	MUTUA JOSHUA
4049	MWIWAWI ALLEN
4091	MANYINSA JEREMIAH
4092	ONGONG`A COSAM
4196	HELLEN MOSSE
4245	RIOBA EVANS AERA
4256	mureithi JOSEPH GITAU
4381	NYAGA DENNIS MWENDA
4478	OLUCHIRI TIMOTHY ONGINO
4555	Jassan Ndegwa Njani
4646	KENNETH WAYNE MUTUMA
4661	NYANSIMORA EDWARD BIESE
4794	Kariuki Mark Anthony Macharia
4800	KARANJA DAVID KAMAU
4841	Odhiambo Vincent
4970	OTIENO DAVID OCHIENG
5031	Otieno Duncan

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LICENCIATE

5041	John Otieno Opiyo
5085	Ochanda Fredrick ondari
5111	HENRY CHEGE NJAMI
5150	Patrick Mugendi Mugo
5266	HILARY CHEBORE NGETICH
5280	DAVID MORONTI NTOOKI SEITA
5311	NGUGI NJENGA PETER
5378	Julius Mwale

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998	WANYONYI FRED
1045	MBURUGU REUBEN
1071	MPUNGU PAUL
1120	BEKELE BEKELE
1227	THUO KAGWANJA
1352	OGOLLA MICHAEL
1389	SEHMI KANVALDEEP
1504	IKERE JAMES
1510	MAINA RAYMOND
1531	OWOUR WILSON
1584	MUNG'ARA MWAURA
1651	ODUOR CHARLES
1702	MWAKIO PAMPHIL
1706	GICHUKI DAVID
1738	BUYU JASON
1749	THIMANGU ANTHONY
1766	SWANYA HENRY
1773	MS. SIRA RIMAL
1780	NJOKAH PETER
1782	GICHUHI JACKSON
1797	ISMAIL AHMED HUSEIN
1817	KIARAHO DAVID
1859	MWANGI FRANCIS
1928	WACHIRA JOHN
1934	CROZE LENGAI
1942	GETONGA FREDRICK
1970	WARIITHI PAUL
1998	MUTURI JOHN
2030	Michael Majale
2048	NYAMWEYA PAUL
2098	OBWANDA CHARLES
2101	NDIRANGU DANIEL
2107	AMBROSE SIMON
2108	AHMED AHMED
2115	KABA WINSTON
2125	KILILO THOMAS
2126	KIMANI MWANGI
2127	NDARUA ANASTASIA
2143	KAGWI SIMON
2158	KYALLO ANGELA
2183	MUNYUA ALLAN
2310	MALONZA JOSPHINE
2349	KINOTI KIMATHI
2404	KOECH FREDRICK
2408	Josephine Achola
2412	MBIDHI MARTIN
2413	KANYUA CHARLES
2414	MUNYA ANDREW
2419	NAJMI MUSTAFA MOIZ
2427	MBURU FRANCIS
2430	SALIM FATMA
2431	WILLIAM KENNETH
2436	AKALI GEORGE
2442	NGUNYI PETER
2448	NGACAKU KENNETH
2452	WANYONYI GEOFFREY
2453	OMARIBA KEFA
2465	OMYONGA GIDEON
2505	MWANGI CHARLES
2506	MAKHULO SUSAN
2514	MULANG'A MAUREEN
2519	OCHIENG FREDRICK
2521	MWINZI JOSPHINE
2522	MACHARIA ISAAC
2523	OGOT SAMUEL
2538	MWANGI MORRISON
2542	MAKALI ISDORE
2545	IGUNZA ALEX
2549	CHELIMO THOMAS
2576	GEDA NAAMAN
2578	AJWANG' DOMINIC
2579	EBRAHIMJEE MOYIZ
2580	MASINDE RONALD
2584	AKUMA AUGUSTUS
2589	NJOROGE MARANGA
2639	KIPRONO LABAN
2648	KEMBOI VINCENT
2657	KAGIRI PAUL
2659	NJERU ISAAC
2661	MUCHIRI TITUS
2666	NAMBATI IBRAHIM
2667	ROTICH TIMOTHY
2670	OYUGA JOEL
2671	NGUGI JOHN
2673	MUSYIMI ANNAH
2675	NYAWIRA VINCENT
2676	MUTEGI STELLA
2677	SANDRA ATEK
2678	WEKE S.O. STEPHEN
2682	OPIATA CHRISPIN
2692	MATI MOSES
2694	NJUE PETER
2696	KIFLETSION MEHARI
2697	MATHARU AMRITPAL
2717	MEDIRATTA KAVIT
2739	CEESAY HABIB
2782	OMEDO REUBEN
2784	MURANGIRI DENNIS
2785	NDALILA SYDNEY
2809	GACHIENGO MICHAEL
2822	NDUNGU KEVIN
2828	MWIROTSI SPENCER
2845	MATHU WAMBAA
2846	GACHUHI EZBON
2852	ADAM ABDULFATAH HUSEIN
2853	NJERU DOUGLAS
2854	TALAAM JULIUS
2855	NDUNG'U JOSHUA
2856	NDUNGU VIRGINIA
2857	GEHRMANN THOMAS
2858	NGUNYI SIMON
2866	MWANGI ALLAN
2867	WANJALA WALTER
2868	KIMATHI FESTUS
2870	MBUGUA PAUL
2871	MOSHEH JAFFAR
2873	ANDREW DANIEL
2877	KAMAU RICHARD
2878	NJERI JAMES
2882	MURIITHI GLADYS
2884	REDPATH BRIAN
2885	SHAH MEHA
2893	ETAMUKU KEVIN
2894	ESHIWANI LORANA
2896	KAMANGU JAMES
2899	OUNDA MICHAEL
2900	ARAKA SUSAN
2901	MWANGI CHRISTOPHER
2902	MAONCHA LABAN
2903	MUHANDI GEORGE
2912	GICHUYIA LINDA
2933	KARIUKI WAGAIYU
2936	OJWANG'I DENNIS
3065	MUIU EDWARD
3066	KIPYAB CHARLES
3121	WAWERU NJUGUNA
3124	FERNANDES KEEGAN

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3127	NGUTI WINNIE
3128	EBOYI JOAN
3129	LENJO PHILIP
3130	KIMANI FREDRICK
3131	KARIUKI RICHARD
3133	KARANJA ESTHER
3134	MACHARIA SIMON
3135	KIAMBA LORNA
3136	MUSEMBI DANIEL
3139	MUSANGI HENRY
3140	TOO KEFA
3144	NDARUA IRENE
3145	NAJMI MUFFADAL
3148	OTIENO ALEXIUS
3150	KITAKA ANTHONY
3152	KIRIAGO LAPLACE
3153	LATESTE MARIANE
3155	KING'ARU JULIUS
3156	CHOGE CYPRIAN
3159	DIANG'A CLAIR
3160	KIMURA JOHN
3161	DAWA PETER
3162	KARUGA KOINANGE
3163	MAGANGA JOY
3164	MUIRU JOSEPH
3165	KIMANI GABRIEL
3166	NDUNGU JOHN
3167	MAKAU MWAKI
3180	MUNYAO VERON ICA
3183	KORIR MARK
3187	ASUZAH DERRICK
3196	MWAMBEO FELIX
3201	KAGO JACKSON
3212	IRINA RICHARD
3224	ASEMBO KEVIN
3225	TIROP ANDREW
3226	MATHU JACKSON
3229	MASIKA JOSEPH
3230	ONDIEKI SOLOMON
3248	OKELLO PHILIP
3249	OTIENO NICKSON
3251	WACKER REGULAR
3260	MANDUKU CHARLES
3266	KITHEKA JAMES
3267	NYAMAI MARTIN
3268	MUSYOKA PATRICK
3271	MUNJARU HESBORNE
3272	NGUMBAU GIDEON
3273	MUCHIRA DANIEL
3274	HARIZ KHADIJA
3276	MUTUA PHILIP
3284	KOECH NICHOLAS
3285	MWANGI CHARLES
3286	WALIJEE WALIJEE
3290	KYAKA JACKSON
3292	NG'ANG'A PETER
3293	KORIR NEWTON
3296	CHEPKEMOI WINNIE
3297	ORECHI ALEX
3298	NGATIA EDWARD
3299	ONYANGO SIMON
3302	MAKORI HERBERT
3303	MUGAMBI JACKSON
3305	AYUMBA CALEB
3308	MAIMBA MICHAEL
3310	OMBATI EVANS
3312	GATHECERE DAVID
3313	BAHRA HARPINDER
3314	NYOBENDO FAITH
3317	KUONI WALTER
3318	MAVIA EVANS
3319	WACHUGA ANTHONY
3320	OLUOCH GODFREY
3321	OCHIENG KEVIN
3322	MWANGI TIMOTHY
3323	OSOGO VINCENT
3324	NTHIA KELVIN
3325	OPIL ANTHONY
3326	MULANGO SIMON
3327	MENGECH EDWARD
3329	MWAURA MORIS
3330	SEGECHA BERNARD
3334	ODERO PHAREZ
3335	NJUGUNA BENSON
3343	HUSEIN ABDILATIF
3346	OUMA ROBERTS HOPE
3347	STEPHEN JOSEPH
3348	MOSOIN KENNEDY
3365	GITHINJI FRANCIS
3368	THAIRU CYRUS
3369	VAN DER EERDEN JOHANNES
3370	WASONGA GEOFFREY
3371	NGWAI FOUSTINE
3376	WANJALA REINIER KHAMALA
3377	KING`ORI ROSE
3378	CHAVULIMU ERICK
3383	JAHANGIR IQBAL CHAUDHARY
3384	KARIUKI DUNCAN
3400	VERJEE BASHRAT
3401	LUVAI WILLIS
3405	MASABA SYLVIA
3411	KIURU SAMSON
3412	WAINAINA MICHAEL
3414	IRUNGU RICHARD
3416	OSINDE JARED
3418	KUBAI KOIGI
3419	KIPNGETICH MOSONIK
3422	KAMAU GERALD
3423	ATTARI HUZEFA
3435	KAMAU MOSES
3436	GICHURU VICTOR
3437	NYANDIKO FREDRICK
3440	MIIGI GEORGE
3441	MUMBI ROXANA
3442	OWINO FREDRICK
3443	BUSIENEI JESE
3447	NJUGUNA ALEXANDER
3449	MODHA HARDIK
3451	GITHINJI KEVIN
3452	OKEMWA MOSES
3455	KANINI EMMANUEL
3456	NZUKI SOLOMON
3460	NDUHIU EMMA
3473	MTAMU JOSEPH
3480	KARIUKI BEATRICE
3484	CHANA RENE
3486	DE WET JOHANN
3495	MUGO SUSAN
3509	KIMANI CHRISTOPHER
3531	KIHU MWAI
3532	LANGAT EZRA
3533	KANTARIA RAKHEE
3538	NDALO ROBERT
3605	ASATI JOSHUA
3606	AWICH WALTER
3607	RONO CALEB
3610	MUHANJI JAMES
3621	NJAGI JAMES
3622	ONYANGO JOSHUA
3623	MUTUKU MICHAEL
3630	KIMANZI JAMES
3631	OMBATI ANTONIO
3656	KYALI MARGRATE
3657	OYARO JAMES
3658	TUNDURI FELICAN
3659	SAGAFF OMAR
3660	ODONGO WILFRIDA
3661	GATHERU PETER
3662	SALIM CHRISTINE
3663	OBWAR ELVIS

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3664	OGUTU JOHNSON
3665	NTHIWA SOLOMON
3667	JUMA ERIC
3668	NJOROGE MARGRATE
3669	KURIA DUNCAN
3670	MUHIA BOB
3671	OMBISA JACQUELINE
3678	DARANI ABDULHAMED
3679	AJEGA SYLVIA
3681	LIMO SAMMY
3682	YUNGO NELLY
3683	ODEGI JOHN
3685	NJOROGE JAMES
3687	LINDENBERG ERIC
3689	MAGHANGA CHRISPHINE
3690	KARIMJI HUSEIN
3691	LUKE CARTER
3694	MUSYOKA CHARLES
3695	KAARA SAMUEL
3696	KIBOR EUNICE
3698	SIMWICHI NICHOLAS
3724	GITIJE MARTIN
3725	STEPHEN ERIC
3726	LOMOLE DANIEL
3727	FRENDIN MARIA
3728	OKINDA SELLAH
3730	OGOVA FADHILI
3731	SIBOE LARRY
3749	WEYN VALERY
3779	MANDA KELVIN KAKAIRE
3787	LATABO FIONA
3789	AYIEKHA GEORGE
3818	KWON HYUK
3819	CANONIZADO GABRIEL
3821	CHEMMEI MYRA
3822	NGUGI KENNETH
3823	PONDA SAMANTHA
3824	KILUNGYA TABITHA
3832	LEONARD KOILEGE
3833	KIMUYU ANTONY
3834	PATEL GUARAV
3835	NG`ANG`A PETERSON
3836	NYAKOIRO CALEB
3838	MWANGI STEPHEN
3839	OTIENDE JACTONE
3850	JUMAAN SWABRI
3855	KARIGUH JOSHUA
3874	KYENZI ANDREW
3875	OTADOH ABISALOM
3876	KARANJA KABAGE
3894	WILSON WACHIRA
3898	VIRDI GUNDIP
3899	QIAN FEI
3901	KAMAU JANET
3906	PAUL GITHINJI NGUGI
3925	OUMAH OMIENO
3926	CHARLES J. O ANDALA
3927	ALLAN K. C KANYIHA
3928	MAINA W. HARUN
3929	PRIYA CHERICKEL
3933	FREDRICK O. OJUWA
3937	MICHAEL K. MUNG`ELI
3938	PETER A. M. KABURU
3943	ERIC KINARA MAGETO
3944	ADDAH M. WANYONYI
3946	KILOO TIMOTHY
3950	CHARLES M. GHATI
3951	GEORGE K. IRUNGU
3952	NJENGA M. MARI
3957	PHILLIP J. ODUK
3960	ALLAN P. SUDI
3962	ZAINAB A. O JALAKHAN
3975	TIMOTHY MALABA
3976	HUDSON NG`ANG`A
3977	JOHN O. ADODA
3978	DENNIS MUKUBA
3979	ROBERT ONYANGO
3980	PETER KAMAU MWANGI
3981	BINYANYA RAPHAEL
3982	JOEL ODHIAMBO
3983	STANLEY MEEME
3985	MUMBI MAINA
3986	THUMBI KURIA
3987	DENNIS MATARA
3988	DENIS MULI
3989	OBADIAH KIMOTHO
3990	HARON GITHINJI
3991	GACHERU DAKS
3992	ELVI LENAH MUKOYA
3993	CHARLES CHWIRI
3994	DENIS MAINA
3996	YUSUF HASAN
3997	BRIAN MUNENE
3998	KILBURN HARRIS
3999	TAWFIK OMAR
4000	INIGO TORRENS
4001	SYDNEY MANINGA
4002	DANCAN ODHIAMBO
4004	MARK GEITA
4005	HINDU MOHAMMED
4007	ETTA MADETE
4014	DEEPAK KRISHNA
4026	JOYCE OSODO
4027	EUGENE MBUTHIA
4028	JAMES KAYWA
4029	RISHAPKUMAR PATEL
4034	DAVID CHEMIAT
4044	MICHAEL MBURU
4046	JOSEPH MUGO
4101	MUCHIRI KIMANI
4104	JOSEPH WANZATO
4107	ABIMELECH MARONGA
4108	COLLINS AKETCHE
4109	GIKURU IVAN MACHANULE
4110	STELLA AGEYA
4112	LECCHINI MARK
4113	GITHAIGA GICHORA
4114	DIANNE WAKONYO PRISCILLA
4116	CALEB THUKU
4117	WILLIAM MAMBO MATOLA
4118	JEDIDA KEMUNTO MAGARE
4119	LEITICH CHERUIYOT MARTIN
4120	NJERU EVANS
4123	JOSEPH MUTUA
4126	ANDREW KARUMA
4130	MUNG`ATA FAITH
4131	JOSIAH KIRUMA
4134	JUDITH GITARI
4136	ROSE DAMA MSANZU
4139	MPURIA MARTIN KIOGORA
4140	ALEX WAIGURU
4143	SALOME BUKANIA
4165	MATTE LINDA
4166	KALANI ELIUD
4168	NYAGWOKA FRANK
4169	KING`ORI BRENDA
4170	MWANGI MERCY
4171	NJOGU DANIEL
4172	OGACHI SIRIBA EDWIN
4173	BASWETI VICTOR NYAMWEYA
4174	KOECH GABRIEL K.
4175	KAMAU WANGARI NAOMI
4177	PIGOTT SHAWREN
4178	GIKERA ERICK
4179	KIPROP ANTHONY
4180	NG`ANG`A PATRICK
4181	WAMBUI NAFTARY
4182	ITEBA ALLOYS
4183	ONDAKO MICHAEL
4184	ROBERT KIPRONO KIPLAGAT

MEMBERS IN GOOD STANDING

ARCHITECTS CHAPTER

GRADUATE

4185	MUKAMI WANJIKU NJERU
4186	ANTHONY WAMBUI
4188	DANIEL MAKANA
4189	GABRIEL RIMO MAGIGR
4190	KENNETH MUNENE KOBIA
4191	GADSON MUTAHI
4192	HUMPHREY ODUOR
4193	ODHIAMBO BRIAN
4197	JAMES MUNYI WAINAINA
4198	SIMON SIMIYU WEZHULI
4201	LEONARD BETT
4207	HAFSWA ALI
4208	JACKLINE ATIM
4224	MELLISE OCHIENG`
4225	Mumbu Jimnah
4247	CATHERINE MUTHONI KIBARU
4251	MUTHOKA ANGELINE MWENDE
4252	KAMAU SYLVIA WANGECI
4253	CHRISTOPHER ONDWASI OMONDI
4258	CONSOLATA MUENI MUTUA
4259	FRANCIS NGOTHO MAINA
4263	EMMANUEL KAMAU GITAU
4265	RICHARD SIMBA NYAMWEGA
4266	MAITHA JANUARIES NGUMBAU
4278	VIRGINIA WAITHERERO MWANGI
4279	JOHN KIPKEMBOI CHUMBA
4282	ROSEMARY OMWOMA LITUNYA
4297	DAVID OMBONGI MOGIKOYO
4306	JOHANNES JACOBUS MARIA MOLLEN
4312	Belinda Tuju Otieno
4313	John Thiauri Thiakunu
4314	Oliver Steven Oduor
4315	Erick Mong'are
4319	Anita Shitseswa Wesonga
4321	Kashyap Pravin Gohel
4322	Meremiya Hussein
4337	Hempstone Nyawanda Okeya
4342	Rosemary Wambui Kimata
4358	Cyrus Murage Munyi
4360	William Kathiani Thuranira
4362	Brendah Gatwiri Gitonga
4363	Eric Kisang' Plal
4364	Ian Ndungu Njuguna
4366	David Wanga Waudo
4367	Alex Mwangi Mwaura
4368	Chrispine Makana Nyakundi
4369	Wendy Warigia Wandungu
4370	MALECHE DANIEL LUNALO
4371	Kizito Kuria Mwangi
4372	Faith Fwenda Murekefu
4373	Michael Kinyumu Mbithi
4374	John Kamunyu Kahura
4375	John Charagu Kariuki
4376	Erastus Wachira Mwai
4377	Michael Muriuki Mathenge
4378	Patrick Gikundi Murithi
4379	Pascal Musera Wanda
4380	MUTISO ANTHONY MUTUA
4382	Muhia Moses Wambui
4383	Andrew Mugo Warurua
4384	Christine Nzilani Mbai
4386	Ayara Austine Okonji
4387	Antony Tonney Akhungu Osundwa
4388	Sammy Akem Nyabiba
4389	Kenneth Kiptolo Rotich
4390	Felix Ochieng Datche
4391	Viola Chepkoech Langat
4394	Irene Ndunge Musyoka
4395	Nelson Mungai Kihara
4396	LUCY WANJIKU GACHOGU
4397	DIANA MACHOKA
4411	AHMED ABDILLAHI SHAMUTY
4449	Hatem Eltaher
4450	Rehab ElNaggar
4456	KEVIN KHANDA JOEL AMEYO
4467	VELMA MORAA NYANCHOGA
4470	PAUL KARIUKI GATHITU
4471	MURTAZA KHUZEMA AKBERALI
4472	SILA KIPRUTO KAPTINGEI
4473	MATTHEW KILONZI WAMBUA
4474	JOHN DICKSON MWANGI MBATIA
4475	VICTOR NYAKUNDI
4476	MARGARET MACHARIA KEDOGO
4517	TITUS MUTETI MATHUVA
4518	JANE KATUNGE MUTUA
4522	CHRISTINE KAWIRA NKURU
4523	BALQISA ALI OMAR
4525	JOY JOAN OUMA
4526	JEREMIAH OMWOYO OBAIGWA
4528	AMBROSE MUNENE KINYUA
4529	EDWARD ACHACHI WANDERA
4532	RUTH AGNES OMOLLO
4533	MOTURI KEARI RENE
4537	MAKARIOS KAMAU GATIMU
4539	JACKSON MAGHANGA GITHAKA
4540	BEN BALOZY ODERA
4541	TERESA WACUKA WANJIRU
4542	MARTIN MURIITHI MUTEGI
4543	LOLO HIRBO BULLE
4544	CAROLINE BOSIBORI GESORA
4545	CAREN ADHIAMBO OPONDO
4546	EDGER OCHIENG AYIER
4547	ACHOCHI ERIC NYABUTO
4548	FRANCIS GICHUHI GATUNGA
4549	GEORGE MAURICE MUDONGI
4550	DOLPHINE KERUBO OMBUI
4553	Swabra Kassim Mwamkwari
4571	John Thuo Ndichu
4572	
4574	Ian Ingunyi Mutali
4575	Sharon Wanjiru
4576	Grace Kailu Mulwa
4578	Caroline Njeri Chege
4581	Kenalois Murakaru Kinyua
4604	Joyce Apondi Ochola
4605	Peter Muema Nzing'u
4606	Ruth Nyakebondo Monyonko
4607	Timothy Joshua Musungu
4608	Arthur Otuka Magero
4610	Chris Karanja Macharia
4611	Kelvin Mutwiri Rugendo
4612	Awuor Anyango Okumba
4618	AMANI ALI BWIKA
4620	SAMUEL MUSYOKI MUTIE
4623	SUSAN WAMBUI KABUE
4627	PHILIP MUIRURI MWANGI
4636	MARY WANGUI MUNGA
4637	PHIDELIS AWOUR OBUYA
4645	JANET MORAA ONSOMU
4663	VICTOR KIM KIPTUM
4664	JAMES GATHU GACHUKI
4665	GEOFFREY NYAOSI NYAKOE
4666	DENNIS MANDELA MUSYOKA
4667	ERIC NGILA MAKAU
4668	GLORIA CHEPNGENO KIMETTO
4669	EVERLYN KERUBO MOKAYA
4670	
4671	DAVID NYAMBOSERO OMENYI
4672	MICHAEL ORENGO
4673	CHARLES KYALUNGU KIMETHU

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GRADUATE

4674	DANIEL KORIR KENEI
4675	MARYAM FARID SAID ABEID
4676	ADAMSON MAINGI KYALO
4677	PATRICK MURIRA BACIO
4678	HASTINGS WILFRED ONYANGO OKOTH-OGENDO
4691	Olum David Juma
4694	Erastus Ndungu Kamau
4696	Kenfran Njenga Kamau
4697	Benard Kibet Rutoh
4698	Andre Mungai Githiri
4699	Lofty Moffat Oswere
4700	Francis Kyalo Musya
4701	Ian Kingori Mwangi
4702	STEVE NZIVO KILONZO
4703	Dennis Kibiro Gathungu
4704	Benedict Wambugu Gathii
4705	Valerie Eve Atieno
4706	Collins Omollo Obare
4708	Gideon Kimeu Mutinda
4709	Oscar Mariita Swanya
4710	odhiambo Bob Oyugi
4711	Collins Mose Obino
4712	Jagjit Singh Khokhar
4713	Alex Githuku Wangari
4714	Brian Mawira Nkonge
4715	Emmanuel Mawero Runyenje
4716	Alex Onyiego Onyancha
4717	Michael Kimutai Bop
4719	David Kinyua Irungu
4720	Kevin Mwangi Njoroge
4722	Walter Mangutha Ndungu
4723	Lynette Nasombi Masai
4725	Paula Chibole Kiganjo
4726	Stephen John Bekhor
4727	Edwin Munene Mugwe
4728	Charles Kariuki Miano
4729	Ruth Jepkoech Lelei
4730	Christine Atieno Ouma
4731	KELVIN SALASYA WAKHULE
4741	BECKY ONYANCHA
4779	Yussuf Hassan Abdi
4780	samora Innocent
4782	MWANGI SAMUEL MURIMI
4792	Kasembeli Dan Kukubo
4795	Muriithi Kenneth Mark
4796	Musau Sarah Mwende
4797	KYALO ADAMSON MAINGI
4799	CHESANG BRIGID JEMUTAI
4802	MUKINDA JIM D. GITONGA
4803	JAMES NGUMA KIMANZI
4813	MWIRIGI MARTIN GATOBU
4820	DAVID KAMAU MWANGI
4823	MBUTHIA RITA NUNGARI
4824	KINGI JOSEPH WAZIRI
4827	MWANGI PAUL MUNGAI
4831	hazary Nic
4832	Kimwele Violet
4833	Okoth Charity Achieng'
4834	MUGO ADVIN MUNENE
4840	MOTURI RODNEY MAANGI
4845	Muturi-Kioi Richard Jesse Igoto
4849	Azzam Khalid Swaleh Ali Tamimi
4852	Muturi Joel Gichuru
4856	BACIA KAMAU KANAIYA
4858	MWANGI PAUL MUNGAI
4864	Alberto Costa
4865	Bakar Naimo Ahmed
4867	Ndaga Winfred Awuor
4875	Kiguai Kihara Pharis
4876	Nyamasero Robi Carol
4879	Schrijen Paul Hubert
4894	MULI KIMEU
4901	MWAMBURI LEONARD NGWAI
4902	Larrazabal Carolina
4907	NGENO NOAH CHERUIYOT
4908	KIMARU ALEXANDER GATHIRU
4909	MUTISO MICHAEL MASESI
4910	MURIUKI CHRISTOPHER NGARE
4931	ABDILLAHI ZAHRA
4932	ODONGO PAUL OPONDO
4934	Round-Turner Lindsey
4935	MUTAI GILBERT
4936	NDHULI NGUMA SAMUEL
4937	KABURU TONY MUTWIRI
4938	Makori Evans Masese
4942	Gatheru Eric Mwaura
4943	Ngiela Denis
4944	LANGAT IAN KIPRONO
4945	Essajee Asya
4950	WEKESA GEORGE SIMIYU
4957	Abdulsheikh Abdullah bin Musa
4959	Mburu Nelson Gatabaki
4960	Kirongon Beatrice Jepkemboi
4961	CHEPKIYENG BRIAN KIPROTICH
4966	Ngatu Ntongai Jacob
4967	Arogo Emmaculate Akinyi
4968	Kamau Peter Wambu
4971	Dio Brian Mdzomba
4976	OGADA ALICE AWUOR
4981	ONDARA VINCENT ABUYA
4982	Kibue Judith Wanjiku
4989	RANGANGA FELIX
4997	Misoi Andrew Kipngetich Too
4998	OTURI ROSE AMONDI
4999	NJERU GEORGE RAINGWA
5006	NGUNU CATHERINE WANGECHI
5008	MIKE KARANI NDEKE
5009	Joshua Owino
5011	Christopher Mavuti Muema
5034	Nzamsa Tonny Maluki
5043	Bosco Mumo Kyule
5045	MOTURI OMBOGA AMOS
5055	Rahma Ali Wario
5064	Daniel Rono
5066	Victor Aloo Nyikal
5069	Caleb Kimutai Sawe
5070	Stephanie Maina
5072	nyangweso josephat
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860	NYAMBOKI JAPHETH
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3351	AMENYA ALEX
3910	WACHIRA KENNEDY K.
3923	DAVID O. AKOKO
4115	OKOTH KELVIN
4507	DENNIS KIOKO KIVINDU
4616	Mary Nyambura Githii
4811	MOGENDI GEORGE OKERI
4991	Muli Augustus Kimanthi

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731	ODONGO MAXWELL
882	KABUAGE SAMUEL
920	KHANDHIA MANSUKHLAL
1305	SHANKLA ARJAN
1411	KOTAK BABULAL
1422	NSEREKO MICHAEL
1455	VARSANI RATNA
1522	THUO JOSEPH
1727	ALKIZIM KHALID
1870	NZOMO MARTIN
2047	GUMBE LAWRENCE
2053	MBUI JONATHAN
2054	NJOROGE GEORGE MUIBORO
2055	HIRANI NARENDRA
2069	MUIGAI GEOFFREY
2100	MSAFIRI SEBORU
2148	ROTICH ZIPPORAH
2150	LOVEDAY JUDE
2151	MAC`ODAWA GEORGE

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2160	SHAH CHIMANLAL
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2205	KHABURE OLIVER
2227	NJENGA NATHAN
2231	MONDA ANTHONY
2313	KHAN MOHAMMED
2525	ANYIKA WILLIAM
2602	GUMBO NICOLAS
2713	MATHERI GEORGE
2732	KIMANI FRANCIS
2733	MWANIKI ANDREW
2734	WANDAY PETER
2798	KIAMBIGI JAMES
2815	WAIRAGU JAMES
2859	NYAWADE Benjamin
2860	NALYANYA PETER
2890	MUMENYA SIPHILA
3101	MAINA EPHRAHIM
3207	MUSIOMI TIMOTHY
3237	NDERITU MICHAEL
3427	MWANGI FRANCIS KIBARA
3561	GITAU PETER
3562	OJENDO DOMINIC
3612	OTWANI JUSTUS
3859	MUCHEMI KARIUKI
3920	BERNARD S. OLOO
4203	SHAMMAH KITEME
4231	THOMAS KIMANI
4286	GIFT KINUTHIA KARANJA
4408	MERCY MUGURE
4506	JOSHUA ICHANGI WERU
4601	MOMANYI GODFREY MARAM-BE
4737	LUCY WANJIKU MUTINDA
4751	WABWIRE AMOS KUNDU
4756	OTUOMA PATRICK OTIENO
4838	ENG. OKUMU GEORGE OCHIENG
4929	kioko paul kimali
4949	ADOYO FELIX OTIENO
5312	David Ndumbi Mugweru
5325	CEDRIC OBONYO KHASENYE
5328	Moshe Mitchel Okoth Ojanga

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LICENCIATE

3055	MUTHUI ELIZABETH
3896	MAINA JOSPHAT

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1354	MAIRURA EVANS
3653	KIILU ERIC
3864	MUCHIGA ROSEBRENDA
4055	SALLY MUSONYE
4230	VINCENT RONO
4254	JOYCE MUGURU WAIRIMU
4460	GAKA HARUN MAMBOLEO
4600	OTIENO LORNA ATIENO
4687	Nashon Onyango Tambo
4693	Jacton Mwembe Achieng
4806	MUNENE DAN BRIAN
4830	Kimaru Kennedy Kibuchi
4916	NJUGUNA SIMON GITAU
4952	KIOKO MILES MAVEKE
5065	OKWETO SHARON LOICE ACHIENG
5323	DENIS MWANGI KABUGA

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2383	NJIRAINI MARTIN
3256	TULULA LEONARD
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2239	OGUTU CYRUS
2279	MUMBI ERIC
2449	OKEMWA EVERLYNE
2472	AGENG`A GABRIEL
2482	MWAU CHARLES
2556	KIBUTU ESTON

T. PLANNERS CHAPTER
CORPORATE

2560	JANE MUGO
2567	OLALE PHILIP
2617	MUKETHA SILAS
2835	SAKWA WINSTON
3072	NJANI LINDA
3079	OGARA DINAH
3219	Isaac Mambo Nyamwero
3379	WAKUZE ANITA
3499	MESO JULIUS
3628	OKOTH CHARLES AMESO ANGIRA
3780	MUCHIRI CHRISTINE
4409	INNOCENT MAGGAGA MUKHALE
4410	BENSON OWINO AMOLLO
4413	BETTY AWUOR ONGINJO
4457	VICTOR MWAVU NZUE
4458	DANIEL MURAGE MURAGURI
4459	DIYAD ADAN ABDI
4562	Racheal Njeri Mugo
4688	RIUNGU ALFRED MWENDA
4750	Kiiti Nathan Mutunga
4752	Ndatho Mercyleen Nkatha
4753	Rachael Nekesa
4771	PAUL BRIAN NDELEVA
4784	KIRUI ROSE CHEMUTAI
4814	Kaberere Peter Maina
4859	AUMA NANCY ACHIENG
4861	KISIANGANI RACHEAL NEKESA
4871	CHIRCHIR ERIC KIPKIRUI
4930	LUSALA LOGEDI VICTOR
4946	MWENDA DUNCAN KITHINJI
5000	GICHURU SILAS MBAABU
5030	AGENGA GABRIEL ODHIAMBO
5153	Patrice Shinanda Lumumba
1717	MACHARIA WANJIKU
1876	KAKUMU ABIERO
2029	NDEGEAH SAMUEL
2030	Michael Majale
2091	GRACE LUBAALE
2211	CHESIRE BRIAN
2218	MOSETI YVONNE
2223	MUTUKU NANCY
2224	NZAINGA GRACE
2233	OCHIENG MAURICE
2235	MARARIA JOYCE
2236	MURIITHI C.M.
2242	KIVAIRU HILLARY
2244	MBATIA ARTHUR
2245	KARANGI MONICAH
2246	MURIUKI MARTIN
2247	KARANJA KENNETH

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2567	OLALE PHILIP
2617	MUKETHA SILAS
2835	SAKWA WINSTON
3072	NJANI LINDA
3079	OGARA DINAH
3219	Isaac Mambo Nyamwero
3379	WAKUZE ANITA
3499	MESO JULIUS
3628	OKOTH CHARLES AMESO ANGIRA
3780	MUCHIRI CHRISTINE
4409	INNOCENT MAGGAGA MUKHALE
4410	BENSON OWINO AMOLLO
4413	BETTY AWUOR ONGINJO
4457	VICTOR MWAVU NZUE
4458	DANIEL MURAGE MURAGURI
4459	DIYAD ADAN ABDI
4562	Racheal Njeri Mugo
4688	RIUNGU ALFRED MWENDA
4750	Kiiti Nathan Mutunga
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4753	Rachael Nekesa
4771	PAUL BRIAN NDELEVA
4784	KIRUI ROSE CHEMUTAI
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4859	AUMA NANCY ACHIENG
4861	KISIANGANI RACHEAL NEKESA
4871	CHIRCHIR ERIC KIPKIRUI
4930	LUSALA LOGEDI VICTOR
4946	MWENDA DUNCAN KITHINJI
5000	GICHURU SILAS MBAABU
5030	AGENGA GABRIEL ODHIAMBO
5153	Patrice Shinanda Lumumba

T. PLANNERS CHAPTER

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1717	MACHARIA WANJIKU
1876	KAKUMU ABIERO
2029	NDEGEAH SAMUEL
2030	Michael Majale
2091	GRACE LUBAALE
2211	CHESIRE BRIAN
2218	MOSETI YVONNE
2223	MUTUKU NANCY
2224	NZAINGA GRACE
2233	OCHIENG MAURICE
2235	MARARIA JOYCE
2236	MURIITHI C.M.
2242	KIVAIRU HILLARY
2244	MBATIA ARTHUR
2245	KARANGI MONICAH
2246	MURIUKI MARTIN
2247	KARANJA KENNETH
2265	NDATHO CAROLYNE
2266	MBUTA SHADRACK
2272	OCHOLA ERASTUS
2274	OJWANG JOHN
2275	NYAMONGO JUDITH
2278	MAINA MIRIAM
2281	OCHIENG BILLY
2284	CHELANGAT BEATRICE
2290	MUKIRA JOSEPH
2298	MURAGURI ANTHONY
2334	GITONGA LIANA
2335	KOMBO ENOCK
2336	AYIEMBA MOSES
2351	LIYAI ARNOLD
2357	NYABICHA MOSES
2359	NYARIBARI SAMUEL
2403	MUNGAI CHARLES
2456	GATHURI JOSEPH
2469	GITHIRA DANIEL
2474	MULINGE TITUS
2487	MUCHERU NAHASHON
2492	OTIENO STEPHEN
2496	NYAGUESO SAMUEL
2544	MUREGI DENIS
2565	KOECH ROBERT
2618	THUO EPHANTUS
2620	LANGAT KENNETH
2631	KWADHA AGGREY
2684	KAMAU SAMUEL
2698	ADONGO SUSAN
2699	CERERE NJERI
2744	ADOYO DUNCAN
2836	MUNIALO DAVIES
2838	KAZUNGU RAPHAEL
2887	AKOYO JAMES
3087	ONWONG`A GIDEON
3104	OMONDI WILLCHYSTER
3170	OGORA BEATRICE
3194	WACHIRA PETER
3199	NJOROGE PERIS
3200	KIENJA KEVIN
3220	WASILWA FRANKLIN
3239	ARWA GEORGE
3345	GICHURU PHILOMENA
3352	SIMIYU ROBERTS
3387	ONUONGA ALFRED
3395	NJOROGE BETH
3406	NABWILE METRINE
3425	MWANGI ELIJAH
3426	SHADRACK JASPER
3519	ONJUMBA GODFREY
3520	MUSYOKI ONESMUS
3521	CHEBOI JOHN
3522	CHEBOI KUNGU
3523	LUMUMBA JANE
3524	NYASENDA KENNETH
3525	DAUDI JACKSON
3745	WAKABA DENNIS
3746	CHEGE STEPHEN
3911	HASAN H. RASHID
4025	JUDITH TORUS
4031	EVANS MUSAU
4090	PETER NAIBEI
4210	WILLIAM KINUTHIA
4609	James Ombewa Odongo
4776	Stephen Ochieng Nyagaya
4807	Mukoko Babu
4812	OGORA BEATRICE BITENGO
4822	KINYANJUI DANIEL NDEGWA
4848	Litunya Getrude Gloria
4924	Macharia Michelle Mbatha
4983	RUGENDO ABIGAIL MUKAMI
4994	KIOKO MOSES MBATE
5059	MAUREEN KINYUA
5077	Lugalia Dennis Songole Bugunye
5094	Simon Njoroge Kamau
5221	ROMANUS OTIENO OPIYO
5224	Michelle Ouma- Otieno
5225	MUTISYA ONESMUS KIMANZI
5247	Brenda Muliro
5285	GEOFFREY KIBET KEMEI
5287	Vicky Adhiambo lango
5314	George Wahome
5322	ROBERT KIPKOECH TONUI

TECHNICIAN

4202	MATTE

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1447	MUTISO REUBEN
1449	AKATCH SAMUEL
2113	KURIA MICHAEL MWANGI
2120	ARCHER ALEXANDER
2689	OMOLE HOSEA
2690	OBATSA ALLAN
2816	NJIRAINI ROBERT
2817	MURAGE DEMPSEY
2839	ABUJE SUNDAY
3909	ESTHER W. MACHARIA
2294	MARWA SAMUEL MUGO
2756	OFAFA AMBROSE
2757	WANZA CAROLYNE
2759	MUGAMBI LORNAH
2770	ODHIAMBO LORRAINE
2916	OLIVER CHONGA
3182	MUTUA SYLVIA
3191	MOCHAMA EMMANUEL
3192	MWAI RUTH
3332	KIMONDO ANTHONY
3421	MATHUKU CATHERINE
4200	ARWARI SAMUEL KERONGO
4206	AGHAK ODHIAMBO
3826	BAARIU PATRICIA
3204	MUKOLWE MARION

LICENCIATE

4412	CHLOE JUNE BROWN

GRADUATE

1253	MUTUMAH SHADRACK
1254	MUKABI EDWARD
1361	MAINYA SAMUEL
1879	SUAMRA D.R.
1948	PATEL B.P.
2497	WAMBUI ANTONY
2498	M`IKIUGU MARTIN
2575	ONDIEKI JANET
2745	NAMUSONGE MARTHA
2765	OJWANG BENARD
2768	MWAI DANIEL
2772	OCHANDO S.O
2840	KAMAU LEONARD

LAND ARCH CHAPTER
GRADUATE

2898	KORIR PATRICK
3068	KIMANI ANTONY
3174	AHURA BENJAMIN
3175	MAE FREDRICK
3190	KIGEN EMMANUEL
3205	DR. OCHIENG MARTIN
3257	OUMA LOICE
3331	MILIMU ERICK
3333	IMBUYE DAVID ONDEYO
3337	LEGISHION JACQUELYNE
3349	NADIM SODHA
3358	GACHOMO PETER
3359	AYELABOLA VICTOR
3380	OBURA MICHAEL
3413	YUKO JAMES
3720	MUYODI PATRICK
3740	GITAU DOMINIC
3762	GITHINJI BRENDA
3785	MAREICH ABRAHIM
3842	KAMWERU GRACE
3856	KIMANI SAMUEL
3891	OWINO CLEOPHAS
3892	OGEMBO ENOCK
3922	PETER M. MUREITHI
4020	JACKSON MUGO
4053	DENNIS OKETCH
4204	CHARLES WAMBEERE
4205	PIUS MOMBO
4257	GEORGE NANGABO WANJALA
4305	MULIEVI JOHN SHAMALA
4308	THEOPHILUS KIPRUTO YAMMAH
4309	VALERIE GATWIRI IRUNGU
4323	KWAMBOKA JUDITH ONYONI
4324	VINCENT KABA MICHIRA
4349	RUTH WAIRIMU MURAGURI
4350	MATHIAS LOKI MUTISYA
4351	GRACE SYOMBUA VALASA
4352	ANNELINDA MWANIA
4353	Joan Nyagwalla Otieno
4479	SYRONE OWUOR OTIENO
4480	PETER MUTHAMI MWIRANGA
4481	JOSEPHAT KIMARI GITHINJI
4482	YEGON KIPKURUI GODWIN
4483	ARNOLD MMBASU INYANGALLA
4484	GIBSON NGUMI GACHAGO
4485	MATILU SALOME KAVINDU
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4487	JULIE NYAMBURA WANJOHI
4488	HOSEAH OLIVER AGINA
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4490	JACKLINE KARAGAI KAUNDA
4491	ALLAN NDUNGU GITHUKU
4492	GERALD MWITA NKONGE
4493	KEPHA SOSTENA MOCHAMA
4494	KEVIN GITANGU MBUTHIA
4495	EDWIN MUREITHI NJUGUNA
4496	NICHOLAS KIPROP KEMOI
4497	CHEBET SHIRLEY SANG
4498	PAUL MUTURI NJUE
4499	ANDREW KIOKO MBOLOI
4500	TABITHA NGII NDETI
4502	CECILY WANJIKU MURAGE
4503	DAISY ONGACHI IMBAYA
4504	ANNETTE ANYANGO MZEE
4505	TIMOTHY MAINA KIHARA
4554	Dennis Omwenga Omweri
4586	KARANI KEFA MURIUKI
4590	Mercybeth Wambui Wangui
4591	Luvinzu Keneth
4593	Vivian Aluoch Dede
4594	Rajab Kassim Ashiali
4595	Shadrack Kirui
4596	Dennis Muendo Muthui
4598	GIDEON KIMUTAI SANG
4602	Paul Werunga Mulati
4638	KELLY OBALLA ADERA
4639	NELLY BARASA
4640	ERICK KINYUA MURITHI
4641	NGESA JOAN NANG'AYO
4692	Kelvin Abuga Ondabu
4744	SIMIYU NANCY
4745	OMONDI MICHAEL OGOLA
4746	Omare Ocevan Omare
4768	Kamande Brenda Grace Njoki
4818	WATAKO BRUCE MUGOLA
4821	GITONGA KIBE STANLEY
4850	Maswili David
4873	MOKAYA ALEX MARIETA
4877	Ndala Maria Terry
4905	MUREITHI DENIS MWANGI
4914	Peters Brandon Scott
4940	Kotolo James Raila
4948	KINYUA PATRICK MWANGI
4965	Etyang Ikojo Roselydah
4973	Nyadero Fiona Penina
4974	Ita Christine wanjira
4975	Shivere Shitote Augustine
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5036	LOUIS FABER CHITERI
5037	Peter Kabuuru Kibaara
5039	JUDDY NDUNGE MWOLOLO
5040	Daisy Monyenye Oremo
5042	Fredrick Omondi Owino
5046	CHARLES KYALO MUTUNE
5051	ZABLON KIMUTAI MENGICH
5054	VIVIAN NJOKI KINIU
5091	MURITHI TIMOTHY MBAABU
5097	DANIEL OWUOR NYANDEGA
5098	ALOYSE MAIGO MIKURO
5133	TIMOTHY MAINA WAITHAKA
5136	KENNETH NDEGWA NDIRANGU
5154	KELVIN MURITHI NJERU
5215	Peter Chebore kiprono
5220	CHRISPHINE OTIENO ODHIAMBO
5242	Rahab Wangeci Nyakairu
5268	Franklin Mutwiri Kirimi
5275	TERRYCHERYL KAYIEKO
5296	NYINKE KOSEI
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1354	MAIRURA EVANS
1638	KITHOME PATRICK
1721	ABONYO ERASTUS
1810	OGUNDE OSCAR

CPM CHAPTER
CORPORATE

2013	Asienga Ebole
2372	BISHER FAWAZ
2381	AGWARO KENNEDY
2389	OUMA PIUS
2526	OSIDIANA DENIS
2587	KIGAI EDWIN
2615	KIBOWEN KATHY
2637	PAUL ODHIAMBO OKICH
2922	AKATCH SAMUEL
2923	ORIKO DANIEL
2929	NYAKUNDI HARON
2931	NGODA DAVID
2943	NJORA WILSON
3179	KOIGI GEOFFREY
3193	MUTAKAA JOHN
3241	AKATSA ANZAYA
3244	NGUGI JOHN
3245	NYAIGOTI MICHAEL
3246	KAHURIA THOMAS
3355	MWAURA ANDREW
3394	M`ITHAI CHRISTOPHER
3409	MWAZI ALPHAGE
3482	MUNANO AIDAH NJERI
3501	KIMANI JOHN
3514	WANGA ALBERT
3515	MACHARIA JOHN
3611	KANALO JAMES
3615	SIBOE INVIOLATE
3616	WAIHARO MARTIN
3636	WEKESA MOSES
3637	NGIGI PETER
3722	NJOKA BRIAN
3738	MAKAU RUTH
3757	MBUGUA LAWRENCE
3783	KAIRU PAUL
3813	CHEGE GITURA
3814	NZIOKI DICK
3815	MASUDI WILFRED
3862	MAYAVI PETER
3912	VINHUS NDUNG`U MATHU
3913	HARRISON MORARO NYAKUNDI
4010	JOSEPH KAIRU
4011	SOLOMON WERE
4040	BETHUEL MUTAI
4042	BENARD KALOKI
4124	KHAMILA MARK
4233	LUMADEDE MICHAEL AGOYA
4274	JOSEPH OMONDI OTIENO
4290	ALBERT OLUGA OGOLA
4291	DISMAS KIMUNGUI WANYONYI
4327	Moses Obare Kiage
4406	CRISPUS ANTONY WATHIMBA
4455	STEPHEN KIVUVA
4463	NDINDIRI WAWERU
4468	LIVINGSTONE MWANGI KAHIGA
4904	EKASIBA CHARLES ICHUDI
4915	Mwinga Michael Gitari
5003	Mureithi Lawrence M.
5027	Agwer Joseph
5299	Mbatia David Munyoro
5377	Redempta Munyalo

CPM CHAPTER
LICENCIATE

2027	KWATSIMA SYMON
4810	PETER MILIMU MUTANGE
4843	KINUTHIA JOSEPH WARUI

CPM CHAPTER
GRADUATE

3354	WAWERU MIRIAM
3393	ONDOLA SAMUEL
3424	AYUYA ANDREW
3500	OIRIGA DENNIS
3502	MWANGI DANIEL
3560	KENYATTA MARK
3564	MURUGI GEOFFREY
3565	OMONDI GEORGE
3566	BIWOTT JOHN
3618	KURIA JOHN
3619	MWANGI SANDRA
3620	KOIGI KAREN
3638	OGUNDO DAVID
3639	ONGURU OSCAR
3742	MUKABANA DENNIS
3758	KAMOTHO JAMES
3759	OSORO DOUGLAS
3760	OGADA AUSTIN
3773	NYAIRO JOSEPHAT
3828	KARICHU JULIET
3830	MWANGI MARTIN
3884	GITHIEKENYA JOSEPH
3885	NGATA PATRICK
3886	NGIGI MARK
3887	OGOTI PHIRES
3888	OTIENO DAVID
3889	LAMKA ABSALOM
3890	NDEGWA ROBERT
3903	KIIRU HARRISON

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3914	RUTH WANGECHI NDUHIU
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4054	ABRAHIM METTO
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4111	MICHAEL MURIMI
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4588	Perez Peter Museka
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5014	Kabui Esther Dorcas
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5085	Ochanda Fredrick ondari
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" Year's end is neither an end nor a beginning but a going on, with all the wisdom that experience can instill in us. "

AAK Calendar of Events

2022

January

31	Launch of Status of the Built Environment (Jul – Dec 2021)
28-29	EAIA Council Meeting, Arusha, Tanzania

February

2	World Wetlands Day
8	QS Chapter AGM
8	Engineers' Chapter AGM
10	Landscape Architects Chapter AGM
11	CPM Chapter AGM
15	EDC Chapter AGM
16	Architects' Chapter AGM and Awards of Excellence in Architecture
23	Town Planners Chapter AGM
25	Mombasa Branch AGM

March

1	College of Fellows Quarterly Meeting
9	CPD Event: Landscape Architects' Chapter
23	CPD Event: Town Planners' Chapter
31	AAK Annual General Meeting and Gala Dinner

April

2	Architects / Landscape Architects' Tree Planting
14	Architects' Chapter Golf Tournament
15	Easter: Good Friday
18	Easter: Easter Monday
27	CPD Event: Environmental Design Consultants' Chapter

May

2	Labour Day
4	Eid-al-Fitr
19	CPD Event: Architects' Chapter
26	AAK Je, Una mjengo? Public awareness Campaign

June

1	Madaraka Day
2	CPD Event: Quantity Surveyors' Chapter
5	World Environment Day
7	College of Fellows Quarterly Meeting
15	CPD Event: Engineers' Chapter
25	AAK CSR Event

July

5	Release of the State of the Built Environment Report (Jan – Jun 2021)
7	CPD Event: Landscape Architects' Chapter
19-22	AAK Annual Convention EAIA AGM, Kigali Rwanda

August

	'The Kenya we Want' Campaign

September

1	Graduate CPD Training
6	College of Fellows Quarterly Meeting
7	CPD Event: Construction Project Managers' Chapter
22	World Car Free Day
28	CPD Event: Environment Design Consultants' Chapter

October

3	World Architecture Day
3-7	Customer Service Week
5	CPD Event: Mombasa Branch
9-15	World Fire Prevention week
31	World Cities Day
31	AAK BuildTour – Architects' Chapter

November

8	World Town Planning Day

December

1	AAK President's Dinner
6	College of Fellows Quarterly Meeting

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