




THE COSTECH ANNUAL

SMARTCITY

CONFERENCE 2024



**ARCHITECTURAL
INDUSTRY**

**ENGINEERING
INDUSTRY**



**CONSTRUCTION
INDUSTRY**

Proudly supported by:



Endorsed by:



CONFERENCE THEME:
**DIGITAL BUILT
AND FUTURE CITIES**



THE ZONE 

Plot 9, Gbagada Industrial Scheme,
beside UPS, Gbagada-Oworonshoki
Expressway, Lagos.

CONFERENCE | OCTOBER 21, 2024
WORKSHOPS | OCTOBER 22, 2024

The Journey of Costech's Annual Smart City Conference

Since its inception in 2020, the Costech Annual Smart City Conference has been a pivotal platform for exploring and addressing the dynamic challenges and opportunities associated with urbanization in Nigeria and beyond.

Over the years, this conference has brought together experts, innovators, and leaders from various industries to share insights, foster collaborations, and drive forward-thinking solutions for smart city development.

2021: Opportunities and Challenges for Safety and Security in Nigerian Cities

Building on the success of the first conference, the 2021 event, themed "Opportunities and Challenges for Safety and Security in Nigerian Cities," delved into the critical aspects of urban safety. Esteemed speakers discussed innovative technologies and strategies to enhance security

infrastructure, highlighting the necessity of integrating safety measures into the smart city framework. This conference underscored the importance of a secure urban environment as a backbone for sustainable city development.

2022: Smart Transportation & Security

In 2022, the theme "Smart Transportation & Security" expanded the conversation to include the pivotal role of transportation in urban security. The virtual format once again facilitated a diverse participation, with thought leaders sharing best practices and emerging technologies in smart transportation systems.

The discussions emphasized the interplay between efficient transportation networks and urban safety, presenting case studies and innovative solutions that could be implemented in Nigerian cities.

2023: AI in Construction

The 2023 conference focused on "AI in Construction," highlighting how artificial intelligence is revolutionizing the construction industry. This theme brought to light the transformative potential of AI in building smarter, more resilient infrastructure. Renowned experts presented groundbreaking AI applications that improve efficiency, reduce costs, and enhance the sustainability of urban development projects. The virtual format enabled a global exchange of ideas, reinforcing the conference's role as a hub for innovation and knowledge sharing.

2020: The Beginning of a Vision

The inaugural conference in 2020 marked the beginning of Costech's commitment to smart city initiatives. Despite the constraints posed by the global pandemic, the event was successfully held virtually, setting a strong foundation for future conferences.

The focus was on broad-spectrum smart city concepts, laying the groundwork for more specialized themes in subsequent years.



At this year's Conference

Theme: Digital Built and Future Cities

As we look forward to the 2024 Costech Smart City Conference, we are thrilled to announce that this year's event will be held in person for the first time. The theme, "Digital Built and Future Cities," promises to explore the integration of digital technologies in urban planning and development. This physical conference is designed to offer a richer, more immersive experience over three days:

Key Highlights



Day 1: Keynote Presentation and Exhibition

The conference will commence with keynote presentations from industry leaders who will set the stage with insights into the future of digital cities. An exhibition will showcase cutting-edge technologies and solutions from top companies and innovators in the smart city domain.



Day 2: Workshops and Case Studies

The second day will feature hands-on workshops and detailed case studies, providing attendees with practical knowledge and real-world examples of successful smart city projects. Participants will have the opportunity to engage in interactive sessions and gain valuable insights from experts.



Design Competition Project Presentation

The final day will highlight the creativity and ingenuity of participants through a design competition. Projects will be presented, judged, and celebrated during an award night, recognizing the most innovative and impactful contributions to the concept of future cities.

Who Can Attend

- Engineers - Civil, MEP, Infrastructure, etc.
- Architects
- Builders
- Facility Managers
- Quantity Surveyors/ Land Surveyors
- Risk and Asset Managers
- Product Managers
- Technologists
- Technicians
- Contractors
- Manufacturers
- Students

DESIGN COMPETITION

About Competition

In pursuit of fostering creativity and promoting innovative ideas for the advancement of design and engineering, Costech Computers invites students from across the country to engage in a thought-provoking discussion on the transformative potential of Autodesk software in shaping the future of design and engineering.

Stage 1: Write up

As a group of four students, create a 1000-word document outlining innovative solutions to ensure a smart building's sustainability, in line with the united Nations sustainable development goals

Stage 2: design concept

Students are required to produce sketches to illustrate the design concept that they recommend for ensuring optimal sustainability in the smart, office building. Focusing on the architectural, structural, electrical and mechanical engineering considerations.

Stage 3: Final design development

Students are expected to transform the design concepts into comprehensive and polished final design. This stage requires detailed and precise work. Students are to produce full set of architectural, structural, electrical and mechanical drawings, adhering strictly to building regulations and town planning laws. They must ensure that the final design aligns with the sustainability goals set by the united nations sustainable goals (SDGs), particularly focusing on SDGs 7,11, and 13. The submission should clearly demonstrate the innovative and practical aspects of design, showcasing the ability to create a smart, sustainable building

Panel of Judges



Prof. Mike Adebamowo
Chief Judge



Arc. Ladi Lewis
Architecture



Prof. Funsho Falade
Structural Engineer



Engr. Tokunbo Adeyemi
Mechanical & Electrical Engineering



Dr. (Arc.) David Adio-Moses
Chief Co-ordinator

Award Prizes

₦1,000,000

1st Place

₦750,000

2nd Place

₦500,000

3rd Place

EVENT HOSTS



Olamide Ogunlola

Director, Costech
Host



Adefemi Aderinola

Director, Costech
Host



Chelsey Ncube

Worldsview
Event Organiser



Tala Nasrallah

Autodesk
Event Organiser



Eniola Otolorin

Costech
Event Organiser



Special Guest of Honour

Engr. Margaret Aina Oguntala

President,
The Nigerian Society of Engineers

SPEAKERS AND PANELISTS

KEYNOTE SPEAKERS



Arc. (Sir) Dapo Ajayi

President of the Architects Registration
Council of Nigeria - ARCON

Conference Chairman

Topic: **Education and Workforce
Development for Future Cities**



Rory Green

Territory Sales Manager, Autodesk

Topic: **The Role of AI in Smart City
Development**

GUEST SPEAKERS



Olatubosun Alake

Honorable Commissioner, Innovation
Science & Technology at Lagos State
Government

Topic: **Future Trends in Smart City
Technologies**



Arc. Ladi Lewis

Architect and Principal
Consultant

Topic: **Sustainable Infrastructure:
Building Green Cities**



Abimbola Akinajo

Managing Director, LAMATA

Topic: **Smart Mobility Solutions for
Future Cities**



Troy Simon

Senior Manager, Platform Strategy
Autodesk Construction Cloud

Topic: **Future Trends in Smart City
Technologies**



Emmanuel Maenda

Technical Sales Specialist, Autodesk

Topic: **Digital Project Delivery**

PANELISTS



Harmony Mapundu

Senior Technical Sales Specialist, Worldview
Panelist Anchor: Customer Success



Musa Iliya

Head Architect, Urban Shelter
Customer Success Panelist



Adegboyega Amao

Chief Executive Officer, Mar and Mor
Customer Success Panelist



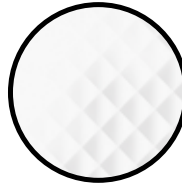
Joseph Abba

Head of Department: Architecture, PrimeTech Design and Engineering Nigeria
Customer Success Panelist



Construction Kaiser

Customer Success Panelist



Adeniyi Coker

Customer Success Panelist

WORKSHOP FACILITATORS



Emmanuel Maenda

Technical Sales Specialist, Autodesk
Topic: Digital Twins: Revolutionizing and Maintenance



Harmony Mapundu

Senior Technical Sales Specialist, Worldview
Topic: Generative Design for Urban Planning with digital project delivery



Joseph Effiong

Autodesk Instructor, Costech Computers Ltd.
Topic: Scan to BIM Technology: Bridging the Physical and Digital Worlds



Lawal Abubukar

Lead Volunteer, BIM Africa
Topic: Infrastructure Modeling and Simulation

STUDENT DESIGN COMPETITION: JUDGES



Prof. Mike Adebamowo

Department of Architecture
University of Lagos



Engr. Adeyemi Tokunbo

Mechanical Engineer



Arc. Ladi Lewis

Architect and Principal Consultant, Azdec A.S.C. Design Consultants



Dr. (Arc.) David Adio-Moses

Architect and Lecturer, University of Lagos

EVENT SCHEDULE

Day 1: Event Agenda

10:00 AM (WAT)

Opening remarks by Managing Director
Mr. Olamide Ogunlola 10 mins

10:15 AM (WAT)

Keynote: Education and Workforce Development for Future Cities

- Preparing the workforce for the digital economy
- Educational initiatives to support smart city development

(Conference Chairman)
ARCON PRESIDENT 25 mins

10:45 AM (WAT)

A Mini Pitch 5 mins

10:55 AM (WAT)

Keynote: The Role of AI in Smart City Development

- How AI can enhance urban planning and management
- Case studies of AI implementation in smart cities

Rory Green, Autodesk 25 mins

11:25 AM (WAT)

Future Trends in Smart City Technologies

- Emerging technologies shaping the future of smart cities
- Predictions and trends for the next decade in urban innovation

Min of Sci and Tech 20 mins

11:45 AM (WAT)

Sustainable Infrastructure: Building Green Cities

- Strategies for integrating sustainable practices in urban development
- Innovations in green building materials and technologies

Arc. Ladi Lewis 20 mins

12:10 PM (WAT)

Networking Break 20 mins

12:35 PM (WAT)

A Mini Pitch 5 mins

12:45 PM (WAT)

Smart Mobility Solutions for Future Cities

- Advancements in autonomous vehicles and public transportation systems
- Developing infrastructure for electric and shared mobility

LAMATA 20 mins

EVENT SCHEDULE

Day 1: Event Agenda

13:05 PM (WAT)	ACC	20 mins
13:30 PM (WAT)	Panel Session for Speakers: Networking Session	30 mins
14:00 PM (WAT)	LunchBreak	30 mins
14:35 PM (WAT)	A Mini Pitch	5 mins
14:45 PM (WAT)	Panel Session: Customer Success <ul style="list-style-type: none"> • Adeniyi Coker • Mar Mor • Julius Berger • Urban Shelter • Construction Kaiser 	30 mins
15:20 PM (WAT)	Digital Project Delivery Day 2 Insights Emmanuel Maenda	15 mins
15:40 PM (WAT)	Closing Remarks	15 mins

EVENT SCHEDULE

Day 2: Event Agenda

9:30 AM (WAT)

Morning Break-out Session

Digital Twins: Revolutionizing and Maintenance

- The concept and applications of digital twins in smart cities
- Benefits and challenges of implementing digital twin technology

Emmanuel Maenda

2 hours

Generative Design for Urban Planning with Digital Project Delivery

- Utilizing Autodesk's generative design tools for optimized city layouts
- Examples of generative design in smart city projects

Harmony Mapundu

2 hours

11:30 AM (WAT)

Networking/Lunch Break

1 hours

12:30 PM (WAT)

Afternoon Break-out Session

Scan to BIM Technology: Bridging the Physical and Digital Worlds

- How Autodesk solutions are used to create and process point clouds
- Benefits and applications of scan to BIM in urban infrastructure

Joseph Effiong

2 hours

Generative Design for Urban Planning with Digital Project Delivery

- Advanced modeling techniques for roads, bridges, and utilities
- Using simulation to predict and improve urban infrastructure performance

Lawal Abubakar

2 hours

15:00 PM (WAT)

Design Competition Presentation

Judges:

- Prof Mike Adebamowo
- Prof. Funso Falade
- Engr Adeyemi Tokunbo
- Arc Ladi Lewis
- Dr. (Arc.) David Adio-Moses

45 mins

EVENT SCHEDULE

Students Competition Awards Agenda

3:00 PM (WAT)	Opening remarks Mr. Olamide Ogunlola Director, Costech Computers Limited	5 mins
3:05 PM (WAT)	Special Remarks Autodesk Representative Importance of Green Architecture and Smart Buildings	5 mins
3:10 PM (WAT)	Project Presentation Student Group 1	10 mins
3:20 PM (WAT)	Project Presentation Student Group 2	10 mins
3:30 PM (WAT)	Project Presentation Student Group 3	10 mins
3:40 PM (WAT)	Announcement of winners Dr. (Arc.) David Adio-Moses	5 mins
3:45 PM (WAT)	Presentation of 3 rd place winner's prize Arc. Ladi Lewis - Judge	5 mins
3:50 PM (WAT)	Presentation of 2 nd place winner's prize Prof. Funsho Falade - Judge	5 mins
3:55 PM (WAT)	Presentation of 1 st place winner's prize Prof. (Arc.) Mike Adebamowo - Chief Judge	5 mins
4:00 PM (WAT)	Closing speech Engr. Tokunbo Adeyemi - Judge	5 mins

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THE COSTECH ANNUAL

SMARTCITY

CONFERENCE 2024

2 DAYS CONFERENCE



October
21st - 22nd, 2024

10AM - 3PM DAILY



Proudly supported by:



Free event:
Registration is compulsory for attendance

<https://costechcomputers.com.ng/smartcity/>

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Scan to register:

