Program

Legend: Cotonou, Benin | Bas-Guinée, Florence | Kumasi, Ghana | Only on site

Timezone: GMT01

May 23, 2023

08:30 AM - 09:00 AM — **Welcome services**

09:00 AM - 10:15 AM — Day 1 **Opening Ceremony**

10:15 AM - 10:30 AM — Day 1 **Dakofashion From Data to African Smart Cities**

This session intends to the discussion between decision makers in Africa vacant find their solutions in the new ICT developed over the last decades. Indeed, the digitalization of the economy and society is a reality in Africa. The deployment of the digitalization of services and activities has led to the emergence and use of an infinite amount of data that will be useful in leading urban centered smart cities.

- Arlette GOMALA, - Director of the Tunisian Embassies in Africa
- Claude BORNA - Managing Director and Chief Innovation Officer at Sierra City Development Agency

10:15 AM - 10:30 AM — Day 1 **The African city of 2040 as imagined by African youth**

Young people in Africa are the future of the continent. The Young Leaders of the digital transition is the TWAIN programme created by Sierra City. Welcome to the year 2040, where entrepreneurship, smart security, innovative mobility and blue economy services are flourishing in African cities at the service of a sustainable and inclusive development. Welcome to the TWAIN program.

Rebecca - Learner in the TWAIN program

10:30 AM - 10:45 AM — Day 1 **The politician and the architect**

Whereas the African city is in the process of transformation to address the urban challenges it faces, the public sector is giving more and more importance to collaborative approaches with the private sector and citizens in the development of its cities. The emergence of new forms of governance and communication networks enhancing participation with regard to the technological evolution that allows for more accessibility and inclusive uses.

- Aziz TOWATOU - Minister of Living Environment, Transport in charge of Sustainable Development of Benin
- Bernadette ATOMEZ - Architect, Director Archi Consult

10:45 AM - 10:45 AM — **Coffee break**

10:45 AM - 12:00 AM — Day 1 **Collective intelligence: youth, robots and the African city of tomorrow**

Second academic year students of Africa Design School, the first African school of design in Dakar offer a Transdisciplinary workshop on relationship between mobility robot and data combined to the mobility of a Smart City, the first schema of the World City project.

Second academic year students of Africa Design School

12:00 AM - 12:00 AM — **Lunch break**

02:00 PM - 02:00 PM — Day 1 **Resilience in African cities**

This twenty-speech will explore the challenges faced by cities in Africa, including rapid urbanization, climate change, and economic disparities. The sources will discuss various topics such as the impact of climate change on urban infrastructure, the role of technology in addressing these challenges, and the importance of inclusive urban planning and governance that respectful, if and also discuss successful examples of resilient urban initiatives in Africa, such as the Kigali City Master Plan and the Lagos Resilient Cities Initiative. The speech will also emphasize the importance of partnerships and collaboration between different stakeholders, including the private sector and civil society, in order to create a more resilient and sustainable urban ecosystem in African cities that can thrive in the face of adversity.

- Hassan SOUSSI/TAIMI - Director of the School of Architecture, Urban Planning and Design UIAT / Co-Pilot of the Metapolis II Project University

03:30 PM - 03:30 PM — Day 1 **The professional and the opinion leader Digital technologies and infrastructures**

Innovation at the service of the city and its users is the new challenge of the urban sector. The digitalization of the service and use raises economic, social and even ethical issues.

Are cities key players in the construction of new models of cities in Africa who will analyze New NUTS and NUTS in the urban question.

- Marin DIDILA - Artificial Intelligence engineer, consult creator on Youtube and twitter
- Sylvain ANTABIT - Director in Services to the Data Double (an infrastructure fundraising du Benin)

03:30 PM - 03:30 PM — Day 1 **Workshop - Towards sustainable and healthy living environments in Africa: Public health and territorial planning policies connections**

This workshop will gather researchers, practitioners, and stakeholders from different sectors of society with a common interest in environmental determinants of health and the impact of urban planning on health. The workshop will explore the complex relationships between the built environment and public health in Africa, the challenges and opportunities for integrating health considerations into urban planning and governance, and the potential for collaboration and coordination between different stakeholders in this field.

- Alex Gogbeshi - Full Professor in Université Alassane Ouara, Director of Institut Régional de Santé Publique
- Lilian Plessa Colombo - Lecturer and doctoral assistant at Ecole Polytechnique Fédérale de Lausanne

03:30 PM - 04:00 PM — Day 1 **Urban geoinformation and its applications in African cities**

This keynote speech will delve into the critical role of geospatial data and technology in shaping urban planning and development decisions in African cities. The speaker will showcase successful applications of geoinformation in urban planning and discuss the key challenges to improve urban services, infrastructure, and governance in Africa. The speaker will also discuss the potential of geospatial data and technology to address urban challenges in Africa, including the impacts of urbanization, the lack of infrastructure, and the need for sustainable development to address urban challenges while preserving the cultural and environmental heritage of African cities.

- Angelina CHIMENTA - Senior Lecturer in machine learning for Earth observation and Geomatics - Bordeaux INP

04:00 PM - 05:30 PM — Day 1 **The turd to the rescue of the urban**

This keynote speech will highlight the importance of building strong partnerships between local and urban communities and showcase examples of successful collaborations that have led to the development of sustainable urban spaces. The goal of this speech is to inspire and provide a roadmap for promoting awareness of the urban climate challenges in Africa and the impact of cities.

- Jeremy ZERMOUNI - Professor at the School of Architecture, Urban Planning and Design UIAT / Co-Pilot of the Metapolis II Project University

04:00 PM - 04:30 PM — Day 1 **Data protection in African cities of tomorrow**

Whereas the notion of smart cities places the use of the centre of the city's actors, the alliance between digital technology and innovation will make it possible to ensure the protection and security of the citizens and the protection of their data.

Is Africa ready to become a smart cities in which it has to be established as an essential tool in the fight against all forms of cyb that would affect the security and well-being of residents.

- Jean-Claude LOUBET - Managing Director at Information Systems and Digital Agency - Benin
- Robert ACLAND - General Manager of ICECO, Benin

04:30 PM - 04:45 PM — Day 1 **Coffee break**

04:30 PM - 04:00 PM — **Coffee break**

04:00 PM - 05:30 PM — Day 1 **Remote sensing and smart GIS**

This session will provide an overview of the current state of the art and applications of remote sensing and GIS technologies in the context of African urban environments. The session will feature presentations by leading researchers and practitioners in the field of remote sensing, geospatial data analysis, and GIS, with a focus on the unique challenges and opportunities that remote sensing and GIS technology in Africa offer. Through case studies and thematic presentations, the session aims to provide a platform for researchers and practitioners to exchange ideas, share knowledge, and discuss the future of remote sensing and GIS in Africa, with the ultimate goal of promoting sustainable development in Africa.

- Angelina ALPH - Researcher at the School of Urban Systems (ESU) at Mohammed VI Polytechnic University
- Angelina CHIMENTA - Senior Lecturer in machine learning for Earth observation and Geomatics - Bordeaux INP

Papers		
Day no.	**Authors(s)**	**Title**
D1T1	Maria LUTZ, Michael AMREL, Jakob CHENAL, & Stephan WEGNER	Structure analysis based on point clouds for urban morphology
D1T2	Guillaume BOUCHARD and Abderahman SAADANE	Land use and urban sprawl in the case of the city of Rabat in Morocco an integrated approach
D1T3	Sebastien MARTIN, Jean-Christophe VIANNA [TRANSPORD] and Lamiae BAHOUD	Spatial accessibility, Jean-Christophe VIANNA [TRANSPORD] and Lamiae BAHOUD
D1T4	Jean-Christophe VIANNA [TRANSPORD] and Lamiae BAHOUD	Spatial accessibility, Jean-Christophe VIANNA [TRANSPORD] and Lamiae BAHOUD
D1T5	Ismail ELKHRACHY and Tawfiqa TAQDAOUI FITRIA	Taking the risk of borrowing a roadside tax in the city of Yaoundé
D1T6	Ismail ELKHRACHY and Tawfiqa TAQDAOUI FITRIA	Taking the risk of borrowing a roadside tax in the city of Yaoundé
D1T7	Amina ELGARNOUNI, Sara ELGARNOUNI and Hicham ELGARNOUNI	Automated point cartog-raphering with deep learning models in Sub-Saharan urban cities
D1T8	Dr Bacre DIOP, Jérémie CHENAL, Stéphane TISSOUKAI and Dr Yacouba KONE	"Practice upstream of the more-than-need-based system in Dakar, Senegal, a great deep-rooted tradition"

05:30 PM - 05:30 PM — Day 1 **Data-driven methods for urban planning**

In this session, we will present papers that demonstrate how data analytics, machine learning, and other data-driven techniques can be used to address the unique challenges and opportunities facing African cities. The papers will cover a wide range of topics, including the use of satellite imagery to map informal settlements, the use of geospatial data to inform urban planning decisions, the application of machine learning algorithms to predict urban sprawl patterns, and the use of predictive modeling to optimize transportation networks and reduce congestion. The session will provide a platform for researchers and practitioners to share their work and discuss the future of data-driven methods in African cities.

- Stephane TIBOUKAIRU - Researcher at the Center of Urban Systems (CUS) of the Mohammed VI Polytechnic University

Papers		
Day no.	**Author(s)**	**Title**
D1T9	Ali AMA ABDALLA ALAOUI	Urban planning approach to road safety in Morocco: reducing accidents through predictive modeling
D1T10	Abdou KOUONDAH and Timothy Tsujikawa FOTSO	Urban planning approach to road safety in Morocco: reducing accidents through predictive modeling
D1T11	Abdou KOUONDAH and Timothy Tsujikawa FOTSO	Urban planning approach to road safety in Morocco: reducing accidents through predictive modeling
D1T12	Amina ELGARNOUNI, Sara ELGARNOUNI and Hicham ELGARNOUNI	Automated point cartog-raphering with deep learning models in Sub-Saharan urban cities
D1T13	Dr Bacre DIOP, Jérémie CHENAL, Stéphane TISSOUKAI and Dr Yacouba KONE	"Practice upstream of the more-than-need-based system in Dakar, Senegal, a great deep-rooted tradition"

06:00 PM - 06:15 PM — Day 1 **Mediation workshop - Towards sustainable and healthy living environments in Africa: Public health and territorial planning policies connections**

This workshop will gather researchers, practitioners, and stakeholders from different sectors of society with a common interest in environmental determinants of health and the impact of urban planning on health. The workshop will explore the complex relationships between the built environment and public health in Africa, the challenges and opportunities for integrating health considerations into urban planning and governance, and the potential for collaboration and coordination between different stakeholders in this field.

- Alex Gogbeshi - Full Professor in Université Alassane Ouara, Director of Institut Régional de Santé Publique
- Lilian Plessa Colombo - Lecturer and doctoral assistant at Ecole Polytechnique Fédérale de Lausanne

May 24, 2023

08:30 AM - 09:00 AM — **Welcome services**

09:00 AM - 10:00 AM — Day 2 **Dakatalk city transformation**

The development of the coastal city of Dakar in Bacre is a big challenge for the Senegal government, which is developing several projects, including the design and development of the Mamy-Ivoir complex and the Sahel City complex, a 300 ha sea city. Closeup on the construction of a smart city which will contribute to the development of the economy and tourism in Senegal.

- Christian HOUNTONDJI - Head of Dakar
- Jean ABDOUNA - Head of Management and Planning of Dakar City
- Angelina PILARZ - Associate Architect Cabinet Architecture
- Jean DESSAITOUN - Interim Managing Director of the National Agency for the Promotion of Heritage and Development of Tourism

10:00 AM - 10:15 AM — Day 2 **Coffee break**

10:15 AM - 10:45 AM — Day 2 **The use of spatial data analysis for risk management**

In the speech, we will explore the crucial role of spatial data analysis in managing risks in African cities. Using real-world examples, we will examine the challenges and opportunities presented by the diverse and rapidly growing urban landscapes of Africa. We will highlight how spatial data analysis can help decision-makers to better understand and address the various risks and hazards faced by cities, and the potential benefits.

- Michael BAYO - Assistant Professor at Mohammed VI Polytechnic University
- Phillip Thomas BOR - Founder of Sierra Alpha

10:45 AM - 12:00 AM — Day 2 **Jagob Smart City: An intelligent environment for a sustainable and resilient city**

Having the energy and will essential for the big features and successes of the Jagob Smart City creation, including the use of renewable energy, smart waste management, and the promotion of sustainable transportation, the speech will also discuss the challenges and opportunities for the city, such as the need for inclusive growth and address pressing urban challenges, while creating a more livable and sustainable community in Jagob.

- Chad G. ZIMMER - Architect, Jagob City Council,Co-ordinator of the urban planning & smart city committee

12:00 AM - 12:45 AM — Day 2 **Women's entrepreneurship in the city**

This keynote speech will explore the challenges and opportunities faced by women entrepreneurs in African cities. We will discuss the unique barriers that women face when starting and growing their businesses, such as limited access to capital, discrimination, and cultural biases. The speech will also highlight the success stories of women entrepreneurs in African cities, and will examine the ways in which women have overcome these challenges and are driving economic growth, creating jobs, and promoting social change. The speech will also provide a roadmap for supporting and empowering women entrepreneurs in African cities, including access to capital, mentorship, and training.

- Rachel AJIRE - Academic researcher in the field of management

12:45 AM - 01:00 AM — Day 2 **Session 1 The effects of port activities on transport, mobility, and urban form case study cities: Accra, Lomé, Gibraltar**

A port-city presents geographic, economic, and cultural interactions between the port and the city. The port-city relationship is a complex and dynamic system and it is a hub point in along continents. This section discusses the port-city relationship of three port cities i.e., Lomé, Gibraltar, and Tangier.

- Augusta ANANO DONKOR - Transport Analyst, Lecturer & Research Coordinator, Regional Transport Research and Education Centre, Kumasi (TRECK), KNUST

Papers		
Day no.	**Author(s)**	**Title**
D2S1	Wayne Martin LONG	Optimization of the public transport network in Gibraltar
D2S2	Eric Yaovi BABANA, Emmanuel Kofi DZISI, Joy Zander Akuyo ADJEI, Kwame Agyeman-Prempeh	Unlocking the state of flexible and operations in major bus terminals in Kumasi
D2S3	Eric Yaovi BABANA, Emmanuel Kofi DZISI, and Emmanuel Kofi ADJEI	Unlocking passenger demand using machine learning models: a case study of Kumasi
D2S4	Yaovi Donatien TOMAS, Charles Akuoh AGAMBA and Augustin Kwadwo DONKOR	Evidence based assessment of two-wheeler taxi-cab and paratransit services for integrated urban transport system in an African city

01:00 AM - 01:30 AM — Day 2 **Unlocking Africa's Tourism Potential: The Power of social media Data-driven Strategies**

By building new cities models in Africa to improve the living environment of the population, urban actors are aiming at a significant objective: make African cities the most attractive destinations in the world.

Tourism is a key sector for Africa's economic growth and could bring the long-term objectives and are keeping to discover Africa and its countries.

With these new shapes, discover how social networks data is transforming Africa.

- Emily BODREE - General Manager Berlin Tourism
- Ebony WALLACE - Talent Branding Strategist, B2C Communication Consultant, Digital Marketing

01:30 AM - 01:45 AM — Day 2 **Coffee break**

01:00 AM - 03:00 AM — Day 2 **Coffee break**

01:45 AM - 03:00 AM — Day 2 **Collecting data to improve basic urban services in Africa Mobility - Health - Urban management**

By evaluating better management of services such as energy, water, and waste management, IT is play an important role in the development of African cities. Indeed, the digitalization of these services can lead to better resource management, reduce waste, and improve the quality of life for residents.

Join this discussion between public actors, start-ups and entrepreneurs who are designing and using innovative digital solutions to improve the quality of life in African cities.

- Gerard HOUNDEGLA - Entrepreneur, Co-founder of the Plasmaga operation

Waste and Sanitation Management Company (SOGEA SA) - Benin

03:00 AM - 03:30 AM — Day 2 **Cloud computing for urban planning in Africa: the case of GIS**

In this lecture, we will explore the potential of cloud computing for urban planning in Africa, using Google Earth Engine (GEE) as a case study. We will provide an overview of GEE and its capabilities and demonstrate how it can be used to analyze and visualize urban spatial data. We will also discuss the benefits and challenges of using cloud computing for urban planning in Africa, such as the potential for cost savings, increased collaboration, and improved data accessibility, and the need for better understanding of how to use cloud computing tools for GIS to improve urban planning outcomes in Africa.

- Angelina ALPH - Researcher at the Center of Urban Systems (CUS) at Mohammed VI Polytechnic University
- Michael AYMAR - Assistant Professor at Mohammed VI Polytechnic University - UPM

03:00 AM - 03:30 AM — Day 2 **Urban extension modeling with GIS**

This tutorial will explore the use of GIS to model and analyze urban growth patterns and project future expansion. Lots of focus on techniques such as land use change modeling, suitability analysis, and spatial regression. We will also discuss the potential of these methods for informing urban planning and policy decision-making, for example by identifying areas at risk of rapid urbanization and using GIS to develop urban extension modeling and to design strategies to supply these homegrown to meet their needs.

- Dominique LAMBLIN - Project Manager at SENTINUM

03:30 AM - 04:00 AM — Day 2 **What governance mechanisms to mitigate the societal impacts of the digital revolution in African cities?**

Modelling session

- Valentine TIOGUIMOU - Researcher at the Center of Urban System (CUS) of the Mohammed VI Polytechnic University

Journalist - JEUTYAK - Urban Planner

Elise MENGUEN - Consultant in urban policy

- Marie-Louise Bernarde NYONAMBE NGO NGUEM - PHD, student at the Regional Centre of Excellence on Sustainable Cities in Africa CERVIDA SYNUBAKON Lycée Pilote

04:00 AM - 04:30 AM — Day 2 **Session 2: Public transport system and public health risk**

Public transport system and public health risk are two important aspects of urban life in Africa. The informal and inefficient public transport system in most African cities has contributed to various public health risks, such as pollution, accidents, and the spread of infectious diseases. The lack of a reliable and efficient public transport system and the poor public health indicators in Africa

- Augusta ANANO DONKOR - Transport Analyst, Lecturer & Research Coordinator, Regional Transport Research and Education Centre, Kumasi (TRECK), KNUST

Papers		
Day no.	**Author(s)**	**Title**
D2S5	Charles Akuoh AGAMBA, Kelvin Kofi ADJEI, Kelvin Kofi ADJEI, and Michael Akuoh AGAMBA	Development of public bus stops and passengers of Accra Metropolitan Area
D2S6	Samuel KUFFI, Charles AGAMBA, AB DUMEDAH and Augustus Kwadwo DONKOR	Exposure to traffic-related air pollution: a public health concern?
D2S7	Michael AYMAR, Charles AGAMBA, Michael AYMAR and Williams DAGBAN	Cycling and walking in Africa: a review of the literature from transport research from transport research from a human. Shows
D2S8	Kwame AGYEMANG, AB DUMEDAH, Joojo PETTEY, Kwame DYKUS, Kwame DYKUS	Crowding vulnerability: any possible transport systems for all in Accra and Kumasi
D2S9	Deborah EMPEH-Tetteh &TEGU	Data science for smart cities, creating a shiny apps for the Basic Infrastructure Develop

04:30 PM - 12:30 PM — Day 2 **Coffee break**

04:30 PM - 04:00 PM — Day 2 **African Cities Lab: A gamechanger that transforms African cities**

Metropolises of the continent are the new hotbeds for innovations and transformations Africa are outstanding to create an African digital education ecosystem that will contribute to the development of the continent. The African Cities Lab is a unique tool for the emergence of digital educational resources and management and governance of African cities to promote sustainable urban development.

04:00 PM - 04:00 PM — Day 2 **Digital transformation and digital governance**

In this session, we will discuss recent research that explores the ways in which digital technologies are shaping urban citizenship, participation, and governance in African cities. The speakers will discuss the potential benefits and challenges of digital technologies for promoting inclusive and sustainable urban governance, accountability, the challenges of bridging the digital divide and ensuring equitable access to digital technologies, and the implications of digital governance for marginalized communities and vulnerable groups. The speakers will also discuss the potential of digital technologies to address the unique challenges and opportunities of digital governance in African cities.

- Dr Bacre DIOP - Researcher at the Center of Urban Systems (CUS) at Mohammed VI Polytechnic University

Papers		
Day no.	**Author(s)**	**Title**
D2S10	Tong Jeremy	Governance of smart cities the dilemma of digital transformation and sustainable development
D2S11	Marie AYME and Hugo PAULMIER	Exploring the digitalization of the governance of the city of Bamako and the city of Bobo-Dioulasso in Mali and Burkina Faso
D2S12	Lucienne Joseph JEUTYAK NKUDJE	Solutions for mitigating the societal impacts of the digital revolution in African cities
D2S13	Ismail ELKHRACHY and Tawfiqa EL-MOUTAWAKIL FITRIA	Villes modernes Bénin-Ivoire de la gouvernance : utopie, ou alchimie d'architecture ou de la pluralisation de l'espace(s) Pierre

04:00 PM - 05:30 PM — Day 2 **Architecture and urban development**

This session will explore the relationship between architecture and urban development, with a focus on the design, planning, and development of sustainable and livable urban spaces in Africa. The speakers will discuss the role of architecture in shaping the built environment and promoting social cohesion, cultural identity, and economic development, and community participation, through a variety of theoretical and empirical perspectives. The aim of this session is to foster interdisciplinary dialogue and collaboration among architects, urban planners, and other stakeholders in the field, and to explore the potential opportunities for architecture and urban development in the African context.

- Michael BAYO - Assistant Professor at Mohammed VI Polytechnic University

Papers		
Day no.	**Author(s)**	**Title**
D2S14	Samia ELKHAYAT and Yasmine SALAM	Sustainable tourism through architectural hybridization
D2S15	Ismail ELKHRACHY and Tawfiqa EL-MOUTAWAKIL FITRIA and Dr Yacouba KONE	Villes modernes Bénin-Ivoire de la gouvernance : utopie, ou alchimie d'architecture ou de la pluralisation de l'espace(s) Pierre
D2S16	Joseph ebogo GARTOUNI	Smart BIMTop smart cities: issues and challenges
D2S17	Hilton OBENG	Urban quality of life in cities of the sub-saharan region in light of smart city concepts in Africa
D2S18	Ismail ELKHRACHY, Hilton OBENG and Bouchra ALAOUI ALAOUI	African city of the future towards an "ex ante urbanism"

05:30 PM - 06:00 PM — Day 2 **Socioeconomic challenges of African cities**

This session will address the complex and dynamic nature of the socioeconomic challenges faced by urban centers in Africa. The session will feature papers that explore a range of topics, including poverty, the socioeconomic impacts of COVID-19, unemployment, and social exclusion, with a focus on urban youth. The aim of this session is to provide a platform for researchers and practitioners to share their work and discuss the future of socioeconomic research and policy in Africa. We invite papers that offer fresh perspectives on socioeconomic challenges facing African cities.

Joseph DUCOUL

Papers		
Day no.	**Author(s)**	**Title**
D2S19	Sara ELGARNOUNI and Hicham ELGARNOUNI	Exploring the complex relationship between urbanization and entrepreneurial ecosystem development in Sub-Saharan Africa
D2S20	Sara ELGARNOUNI, Hicham ELGARNOUNI and Amina ELGARNOUNI	Urban poverty in Sub-Saharan Africa: a review of the literature
D2S21	Augusta ANANO DONKOR, Charles AGAMBA and Bouchra ALAOUI ALAOUI	Fare increases and accessible cities for persons with disabilities in Morocco
D2S22	Joseph EBOGO GARTOUNI	Smart BIMTop smart cities: issues and challenges

06:00 PM - 06:00 PM — Day 2 **Closing remarks**

06:00 PM - 06:00 PM — Day 2 **Award ceremony**

06:00 PM - 06:00 PM — Day 2 **Easy note - plenary session**

Rebecca - Learner in the TWAIN program

06:30 PM - 07:00 PM — **Closing Cocktail**

Confederation Suisse
Confédération Suisse
Confederazione Svizzera
Confederaziun Svizra
Swiss Confederation
Swiss Embassy in Ghana
Swiss Embassy in Benin
Swiss Embassy in Tunisia
SÉMI CITY
Sierra City
Africa Design School
Africa Cities Lab
SWISSNEX IN GHANA
EPFL

An event by
African Cities Lab

© Copyright 2023 African Cities Lab, All rights reserved.