Program

Legend: Conseil Bamako | Ben Guerir Morocco | Kumasi, Ghana | Online | Timezone: GMT+1

May 23, 2023

08:30 AM - 09:00 AM
Welcome services

09:00 AM - 09:15 AM
Session 1 | Opening Ceremony

09:15 AM - 09:30 AM
Session 2 | Classification From Data to African Smart Cities
This session will provide participants with a comprehensive overview of the data ecosystem in Africa and find their place in the new ITU development tool, the dashboard. Attendees will learn about the various data sources and types, the different stakeholders involved in the data ecosystem, the key digital transformation indicators and how they can be used to measure the progress and impact of smart cities. Participants will also be introduced to the ITU's upcoming chapter dashboard and collect feedback on its initial version.
Speakers: Kamal Taha, Director of the Digital Transformation Center, ITU | Mohamed Ali Ben Zekri, Chief of Staff, ITU | Nicolas BURNAY - Managing Director and Chief Innovation Officer at Sensing Smart City Development Agency

09:30 AM - 09:45 AM
Session 3 | The African city of 2040 as imagined by African youth
Did you ever need to take a twenty year leap into the future with Rebecca, a 15 year old student in the TWAIN programme initiated by Sens'City, Welcoming to the year 2040 and discover the city she imagines for herself and her family. Let's discuss and find out why Alphonsine Kouame and Rosalind Ayiku-Ofori of the Ministry of Land Development and Urban Planning, Ghana will be there.
Rebecca - Learner in the TWAIN program

09:45 AM - 10:00 AM
Session 4 | Urban development in Africa: Building smart and inclusive cities
Speakers: Kaoula MEME - Architect and Managing Director at Cabinet Architecture du Soleil | Ibrahim NALLA - Business Development Consultant - Thal Estate Expert - Managing Director at PRESIDENTIA

10:00 AM - 10:30 AM
Coffee break

10:30 AM - 12:00 PM
Session 5 | 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 urban development projects. Indeed, the African city is undergoing a transformation to address the challenges it faces, but what are the roles of collaboration platforms in stimulating, particularly with regard to the technological processes that allow the city to be considered as an innovative city.
Speakers: Lara TOMATI - Minister of Living Environment, Transport in charge of Sustainable Development of Benin | Benjamin AYENI - Architect, Global Arts Consult

12:00 PM - 12:30 PM
Lunch break

12:30 PM - 14:00 PM
Session 6 | Resilience in African cities
The urban population in Africa is increasingly exposed to climate change, including rapid urbanization, climate change and economic disparities. The keynote will highlight the importance of building resilient cities in Africa, taking into account the unique challenges and opportunities that exist in the continent. The session will discuss the role of technology in enhancing the resilience of African cities, including the use of smart infrastructure, data analytics, and digital tools to monitor and manage the environment. Ultimately, the keynote will emphasize the urgent need for collaboration and coordinated approach to building resilient cities in Africa that can withstand the challenges of the future.
Speakers: Dragan RADOSAVAC - Director of the School of Architecture, Urban Planning and Design (UAP-U) at the Mohammed VI Polytechnic University

12:15 PM - 14:00 PM
Session 7 | The professional and the system leader Digital technologies and infrastructures
Innovation at the service of the city is the central theme of this workshop which will highlight the challenges of the various and can also concerned, social and ethical issues.
Joint this day players in the construction of the new models of cities in Africa who will analyze how NICTs work in the urban projection.
Speaker: Kevin DEVILLA - Artificial intelligence engineer, current creator on Youtube and teacher
Lance KAPONYO - Director of Services for the Data Development Infrastructure Nairobi-Ole Sereni

12:15 PM - 14:00 PM
Session 8 | Workshop - Towards sustainable and healthy living environments in Africa: Public health and territorial planning policies commission
This workshop will gather researchers, practitioners, and stakeholders from different sectors in Africa, with a common interest in environmental determinants of health in urban cities. The aim is to provide a platform for discussion and collaboration on the complex interactions between the built environment and health in Africa. The workshop will explore the challenges and opportunities for promoting sustainable and healthy living environments in Africa, including the impact of urbanization, climate change, and socio-economic disparities on health outcomes. The workshop will also discuss the role of policy and governance in promoting sustainable and healthy living environments in Africa, including the need for integrated approaches to urban planning and governance that prioritize the health and well-being of all residents.
Speakers: Ulrich GUIDEMENOU - Full Professor in Limoges-Urbanismo-Cities, Director of Institut Majorem de Santé Publique | Pierre-André LEMAITRE - Lecturer and doctoral assistant at Ecole Polytechnique Fédérale de Lausanne

14:00 PM - 16:00 PM
Session 9 | Cyber geoinformation and its applications in African cities
This keynote session will delve into the concept of cyber geospatial data and its potential applications in addressing urban planning and development challenges in African cities. The keynote will showcase successful applications of cyber geospatial data in various fields, such as urban planning and management, disaster management, transportation, and environmental monitoring. The keynote will also discuss the challenges and opportunities associated with the use of cyber geospatial data in Africa, including issues related to data quality, accessibility, and privacy, and the need for capacity building and collaboration among stakeholders to maximize the benefits of this technology for sustainable urban development in Africa.
Speaker: Charles CHEWA - Senior Lecturer in machine learning for Earth observation and Geomatics - Bentley's MP

14:00 PM - 16:00 PM
Session 10 | The road to the rescue of the urban
This keynote session will highlight the importance of building strong partnerships between land and urban communities and showcase examples of successful collaborations between these communities that have resulted in sustainable and resilient cities. The session will also discuss the challenges and opportunities for promoting greater awareness of the value of land in the context of urban development.
Speaker: Ulrich GUIDEMENOU - Professor at the School of Architecture, Urban Planning and Design (UAP-U) at the Mohammed VI Polytechnic University

16:00 PM - 16:30 PM
Session 11 | Data protection in African cities of tomorrow
Whereas the control of smart cities should give the power back to the citizens of the city's activities, the alliance between digital technology and mobilities and mobility raises questions about the protection of data and the rights of users. How can we ensure that the data collected by smart cities is used ethically and transparently?
In this session, we will explore the challenges and opportunities of data protection in the fight against all forms of crime and risk and affirm the security and well-being of citizenships.
Speaker: Kees ALDASSEN - Business and Digital Lawyer

16:30 PM - 16:45 PM
Session 12 | Coffee break

16:45 PM - 18:00 PM
Session 13 | Coffee break

16:00 PM - 18:00 PM
Session 14 | Remote sensing and smart GIS
This session will examine the latest developments and applications of remote sensing and GIS technologies in the context of African urban environments. The session will explore how these technologies can be used to monitor and manage urban growth, land use, and infrastructure development, as well as the challenges and opportunities for data collection and analysis in these rapidly growing urban areas. The session will also discuss the role of policy and governance in promoting the adoption and utilization of remote sensing and GIS technologies in African cities, including the need for capacity building and collaboration among stakeholders.
Speaker: Charles KUPE - Remote sensing and GIS Expert | Charles CHEWA - Senior Lecturer in machine learning for Earth observation and Geomatics - Bentley's MP

Papers

Time	Authors	Title
16h00	Nina Lychti, Kenyan Wallace, Jakelina Chilimba, Ali Bouali	Spatial analysis of the impact of climate change on food security in Malawi
16h15	Ali Bouali, Nina Lychti, Jakelina Chilimba, Kenyan Wallace	Land surface temperature prediction using remote sensing, geospatial modeling, deep and machine learning
16h30	Mohammed BENHALI, Sara CHAFFAI, Hicham CHAHIDI, Jean-Claude MUGABO and Lahcen BOUGHALEM	Assessment of the potential of Sentinel-1 and Sentinel-2 satellite data for solid waste management in the context of Tangier-Tetouan-Al Hoceima

16:00 PM - 18:00 PM
Session 15 | Sustainable mobility for African cities
This session will explore the challenges and opportunities for sustainable mobility in the field of mobility in African cities. With a focus on innovative technologies and strategies, the session will discuss topics that explore the challenges of the transportation sector in Africa, including issues related to traffic congestion, infrastructure development, and environmental sustainability. The session will also discuss the role of policy and governance in promoting sustainable mobility in Africa, including the need for integrated approaches to urban planning and transportation that prioritize knowledge sharing and insights on how smart mobility solutions can contribute to more efficient, sustainable, and equitable transportation in African cities.
Speaker: Ali Bachir DICKO - Researcher at the Center of Urban Systems (CUS) at Mohammed VI Polytechnic University

Papers

Time	Authors	Title
16h00	Kathrine TRINCHARDI - Researcher at the Center of Urban Systems (CUS) at the Mohammed VI Polytechnic University	Transport governance in African cities
16h15	Ibrahim DIALLO, Ousmane SEMBENE	Contribution of the public transport network in Dakar
16h30	Ibrahim DIALLO, Ousmane SEMBENE	Assessing the risks of facilities and operations in Ingas bus terminals in Pikine
16h45	Ibrahim DIALLO, Ousmane SEMBENE	Contribution of the passenger demand using machine learning in the Dakar region
17h00	Ousseni Ouedraogo, Tryphon Lambert Kabre, AGNIPO and Kouame Appolinaire Kouadio	Effective transport assessment of inter-city bus and paratransit services for integrated public transport system in African cities

Papers

Time	Authors	Title
16h00	Ali Bouali, Nina Lychti, Jakelina Chilimba, Kenyan Wallace	Exploratory analysis of urban heat island and potential vulnerability mapping using remote sensing and GIS
16h15	Ali Bouali, Nina Lychti, Jakelina Chilimba, Kenyan Wallace	Exploratory project-based climate education in Moroccan universities via a remote sensing and GIS platform

16:00 PM - 18:00 PM
Session 16 | Workshop - Towards sustainable and healthy living environments in Africa: Public health and territorial planning policies commission
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Speakers: Ulrich GUIDEMENOU - Full Professor in Limoges-Urbanismo-Cities, Director of Institut Majorem de Santé Publique | Pierre-André LEMAITRE - 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
Session 17 | Dubai's city transformation
The development of the coastal city of Dubai's Bamn is a key challenge for the Business government, which is developing several projects, including the design and construction of the Bamn Business Center, the construction of the Bamn Tower, a 1,300-foot-tall skyscraper, the construction of a marina and a hotel and contributes to developing the tourism and economic attractiveness of Bamn.
Speaker: Abdallah ROUENEKHU - Mayor of Souaki

10:00 AM - 10:15 AM
Session 18 | Coffee break

10:15 AM - 10:45 AM
Session 19 | The use of spatial data analysis for risk management
In this session, we will explore the use of spatial data analysis to manage risks in African cities. Using real-world examples, we will examine the challenges and opportunities associated with this approach, including issues related to data quality, privacy, and the need for collaboration among stakeholders. The session will also discuss the potential benefits of spatial data analysis for risk management and how it can be used to inform decision-making and policy development.
Speaker: Ibrahim DIAKITE - Assistant Professor at Mohammed VI Polytechnic University | Wilfrey Patrick SOUM - Founder of Kaizen Family

10:45 AM - 12:00 AM
Session 20 | Agadir Smart City: An intelligent environment for a sustainable and resilient city
Starting the economic growth and the attractiveness of the Souss Sahel City's vitality, including the development of new sectors such as renewable energy, smart waste management, and digital services for citizens. Through several examples, we will explore the potential of Smart City's cities to drive economic growth and address pressing issues such as climate change, resource scarcity, and social inequality.
Speaker: Ghislain EL OMARI - Architect, Agadir City Councillor and member of the urban planning of Agadir city consultation

12:00 AM - 12:15 AM
Session 21 | Coffee break

12:15 AM - 12:45 AM
Session 22 | Women's entrepreneurship in the city
This panel will explore the challenges and opportunities for women in the city to develop their businesses. We will discuss the unique barriers that women face when starting and growing their businesses, such as access to capital, gender bias, and cultural norms. The panel will also discuss the role of policy and governance in promoting gender equality in African cities, and will examine the ways in which women entrepreneurs are driving economic growth, creating jobs, and promoting social change. Speakers: Ghislaine Ndayishimiye - Co-founder and Chief Operating Officer at Kwetu Financial | Ibtissam Idbouhou - Co-founder and Managing Partner at Outlook Africa

12:45 AM - 13:00 AM
Session 23 | Session 1: The effects of past activities on transport, mobility, and urban form case study cities: Accra, Lomé, Djibouti
In work and activities analysis, the study of the effects of past activities on current and future transport, mobility, and urban form is important to understand how societal changes and human actions shape cities. This session discusses pre-city mobilities, relationships of time and cities, Lomé, Djibouti, and Tema.
Speaker: Boubacar AMBOUTA OUMAROU - Transport Analyst, Lecturer & Research Coordinator, Regional Transport Research and Education Centre, Kumasi (TREC), KNUST

Papers

Time	Authors	Title
12h45	Boubacar AMBOUTA OUMAROU	Assessing the risks of facilities and operations in Ingas bus terminals in Pikine
13h00	Boubacar AMBOUTA OUMAROU	Contribution of the passenger demand using machine learning in the Dakar region
13h15	Ousseni Ouedraogo, Tryphon Lambert Kabre, AGNIPO and Kouame Appolinaire Kouadio	Effective transport assessment of inter-city bus and paratransit services for integrated public transport system in African city

13:00 AM - 13:30 AM
Session 24 | Unlocking Africa's Tourism Potential: The Power of social media Data-driven Strategies
By building new city models in Africa to improve the living experiences of the population, urban actors are emerging as a significant digitalist. Indeed, Urban Data Platforms are a key component of this.
The new tourism sector agency, influential in tourism project owners, are unleashing the long-term objectives and sum helping to discover Africa and its opportunities by using social networks as transformative sources of data.
With these new players, tourism data-driven strategies have a remarkably bright future.
Speaker: Jerry MUGERA - General Manager Bench Tourism | Marie WALLACE, Kaizer Branding Strategist, Brand Communication Consultant, Digital Marketing | Bryan ASHTON - Project Manager National Service Portal

13:30 AM - 13:45 AM
Session 25 | Coffee break

13:45 AM - 14:00 AM
Session 26 | Coffee break

14:00 AM - 15:00 AM
Session 27 | Collecting data to improve Urban services in Africa: Mobility - Health - Urban management
Data is the new oil, and it is the key to unlocking the potential of smart cities in Africa. The collection and analysis of data is crucial for the development of cities, as it provides valuable insights into the needs and behaviors of residents, businesses, and visitors. This session will explore the various methods and tools used to collect and analyze data in African cities, and the ways in which this data can be used to improve urban planning, mobility, and health outcomes.
Join this discussion between public actors, start ups and entrepreneurs in Bamn who are designing and using innovative digital solutions to improve the quality of life in Bamn.
Moderator: Latifa - Founder, MENAWeb

Speaker: Dalia ATMOUNI - General Manager of the Bamn Management Company (SGB-SA) - Bamn | Ibrahim ATTACH - Head of Marketing & Sales

15:00 AM - 15:30 AM
Session 28 | Cloud computing for urban planning in the Souss-Massa area of GIZ
In this course, 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 introduction to GEE and its capabilities, including its data catalog and processing tools, and discuss how it can be used to analyze and visualize large-scale geospatial data. The course will also cover some of the challenges and limitations of using cloud computing for urban planning in Africa, including issues related to data quality and accessibility, and the need for capacity building and collaboration among stakeholders. The course will provide participants with a comprehensive understanding of how to use cloud computing tools like GEE to improve urban planning outcomes in Africa.
Speaker: Ali ALAMI - Researcher at the Center of Urban Systems (CUS) at Mohammed VI Polytechnic University

Speaker: Ibrahim AMAR - Assistant Professor at Mohammed VI Polytechnic University - UMP

15:30 AM - 16:00 AM
Session 29 | Urban extension modeling with GIS
This interest will explore how GIS can be used to analyze urban growth patterns and predict future expansion, with a focus on techniques such as land use change modeling, spatial regression analysis, and multi-criteria decision analysis. The session will also discuss the challenges and opportunities of using urban growth models in Africa, including the need for high-quality data, the importance of stakeholder engagement, and the ethical considerations of using predictive models to inform urban planning decisions.
Speaker: Hamouch AMROUB - Project Manager at GEOSYSTAT

16:00 AM - 16:30 AM
Session 30 | What governance mechanisms to mitigate the societal impacts of the digital revolution in African cities?
Workshop session
Speaker: Kathrine TRINCHARDI - Researcher at the Center of Urban Systems (CUS) at the Mohammed VI Polytechnic University
Moderator: Latifa TRAN
Ulrich GUIDEMENOU - Consultant in urban policies

16:30 AM - 17:00 AM
Session 31 | Coffee break

17:00 AM - 18:00 AM
Session 32 | Session 2: Public transport system and public health risk
Sound assessment and management of public transport system in African cities. The informal and inefficient public transport system in most African cities has increased vehicular traffic with its associated externalities. The session investigates the public transport systems and the major public health hazard of transport in Africa.
Speaker: Boubacar AMBOUTA OUMAROU - Transport Analyst, Lecturer & Research Coordinator, Regional Transport Research and Education Centre, Kumasi (TREC), KNUST

Papers

Time	Authors	Title
16h45	Ousseni Billa, Gaston Ahoussi AGNIPO, Amoakon Jr ASSEMIAN and Yaofaud Ibn SOUMAHORO and Augustin Kouadio	Experiences of traffic noise levels and assessment of its public health risk
17h00	Yaofaud Ibn SOUMAHORO, Gaston Ahoussi AGNIPO, Ousseni Billa and Kouadio Augustin	Exposure to traffic-related air pollution: a public health concern!
17h15	Yaofaud Ibn SOUMAHORO, Gaston Ahoussi AGNIPO, Ousseni Billa and Kouadio Augustin	Investigating factors affecting pedestrians' road crossc perspectives from two developing cities in West Africa
17h30	Ousseni Ouedraogo, Tryphon Lambert Kabre, AGNIPO and Kouame Appolinaire Kouadio	Enhancing sustainability in accessible transport systems for all in Accra and Kumasi
17h45	Ousseni Ouedraogo, Tryphon Lambert Kabre, AGNIPO and Kouame Appolinaire Kouadio	Data science for smart urban cooling: Using apps for the Bamn Ultraviolet survey

18:00 AM - 18:15 AM
Session 33 | Coffee break

18:15 AM - 19:00 AM
Session 34 | African Cities Lab: A gamechanger that transforms African cities
Presentation of the African Cities Lab, a collaborative platform for researchers and transdisciplinary actors collaborating to create an African digital education platform on urban development, offering quality MOOCs and online continuing education for professionals. It also serves as a forum for the exchange of digital knowledge and experiences in urban development, with the aim of promoting innovation and sustainable urban development in Africa.

18:15 AM - 19:00 AM
Session 35 | Digital transformation and digital governance
In this session, we will explore the concept of digital governance and its impact on African governments and organizations. We will discuss the challenges and opportunities for digital transformation in Africa, including issues related to data quality and privacy, the need for capacity building and collaboration among stakeholders, and the ethical considerations of using digital technologies in governance. The session will also discuss the role of policy and governance in promoting inclusive and equitable digital transformation in Africa, including the need for stakeholder engagement, transparency, and accountability in the development and implementation of digital governance frameworks.
Speaker: Ali Bachir DICKO - Researcher at the Center of Urban Systems (CUS) at Mohammed VI Polytechnic University

Papers

Time	Authors	Title
18h15	Ali Bouali, Nina Lychti, Jakelina Chilimba, Kenyan Wallace	Exploratory analysis of urban heat island and potential vulnerability mapping using remote sensing and GIS
18h30	Tania AGUIRE	Spatial analysis of the impact of climate change on food security in Morocco
18h45	Lucienne Jules JEATRE NGUEMOU	Valorizing the mangrove forests of Douala in the context of climate change
19h00	Lucienne Jules JEATRE NGUEMOU and Phanuel NJI	Mapping the risks of flooding in the peri-urban zone of Douala, case of Akwa Ordonnes (Ex de la cité physique) in the Wouri Division

19:00 AM - 19:15 AM
Session 36 | Architecture and urban development
This session will explore the relationship between architecture and urban development in Africa, the design, planning, and development of sustainable and livable urban spaces that cater to the needs of the local population while preserving the cultural heritage and identity of the region. The session will discuss the challenges and opportunities for urban development, and community participation, through a variety of theoretical and practical approaches. The aim of the session is to foster interdisciplinary dialogue and collaboration among architects, urban planners, and other stakeholders in the field of urban development, and to provide a platform for discussion and knowledge sharing on the African context.
Speaker: Ibrahim AMAR - Assistant Professor at Mohammed VI Polytechnic University

Papers

Time	Authors	Title
18h15	Ibtissam Idbouhou	Sustainable tourism through architectural transformations
18h30	Ibtissam Idbouhou and Ghislain El Omari	Architecture and urban planning in Morocco between colonial legacy, Western trend and Eastern identity
18h45	Khalil Idrissi BOUTAYEB	Smart BIM for smart cities: issues and challenges
19h00	Ibtissam Idbouhou and Ghislain El Omari	Urban planning and the challenge of climate change in Morocco
19h15	Ibtissam Idbouhou	Which city and which Bamnois in the post-Covid urbanism?

19:00 AM - 19:15 AM
Session 37 | Socioeconomic challenges of African cities
This session will examine the complex and diverse challenges that Africa's cities face in the social and economic well-being of urban populations in Africa. The session will feature papers that examine 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 the session is to provide a platform for discussion and knowledge sharing on the complex and interconnected challenges that African cities face in the context of rapid urbanization and socioeconomic transformation.
Speaker: Ali BOUALI

Papers

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18h15	Ali Bouali, Nina Lychti, Jakelina Chilimba, Kenyan Wallace	Spatial analysis of the impact of climate change on food security in Morocco
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19:00 AM - 19:15 AM
Session 38 | Coffee break/Posters
Posters presentations on different areas of smart planning in Africa.

19:15 AM - 19:30 AM
Session 39 | Coffee break

19:30 AM - 20:00 AM
Session 40 | Presentation of the Hackathon (Innovation Lab)
Presentation of the winning teams and projects from the two-day of Sens'City, as part of the Smart Cities Week 2023 Summit, a hackathon was organized with 3 groups of 5 people. The objective is to find digital solutions to issue the pay-water of the future Bamn City centers. The hackathon is an opportunity for the 5 finalist teams to present their proposals to the jury and audience.

20:00 PM - 20:15 PM
Session 41 | Closing remarks

20:15 PM - 20:30 PM
Session 42 | Award ceremony

20:30 PM - 20:45 PM
Session 43 | Tray note - plenary session
Rebecca - Learner in the TWAIN program

20:45 PM - 20:50 PM
Closing Cocktail

Conceived by
African Cities Lab
Partners
Swiss Confederation
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Embassy in Morocco
Ministère Délégué chargé de la Transition Energétique et du Développement Durable
Ministère de l'Aménagement du Territoire National, de l'Urbanisme, de l'Habitat et de la Ville
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