



Two-day Hybrid Seminar on Resilient Sustainable & Smart Cities
3 and 4 June, 2021
Starting at 09:00 GMT
10:00 (Rabat time)

I. Background:

Almost two-thirds of the world's population will reside in cities by 2030. This increasing urbanization will translate into increasing natural resources consumption materials, energy and water, and will contribute to excessively higher amounts of generated waste and air pollution. Such dramatic pattern could be significantly mitigated if cities are developed in line with green and sustainable development strategies. To this end, national urban development policies and strategies strive to comply with UN Sustainable Development Goals (SDGs), particularly, SDG3: Good Health and Well-Being, SDG 6: Clean Water and Sanitation, **SDG 7: Affordable and Clean Energy**; **SDG 11: Sustainable Cities and Communities**; **SDG 12: Responsible Consumption and Production**; and **SDG 13: Climate Action**, and SDG 15: Life on Land.

Furthermore, urbanization is creating significant opportunities for social and economic development and more sustainable living. The use of innovative technologies and approaches can significantly contribute to protecting the environment, to conserving natural resources, to ensuring a safer, and cleaner environment and, thus, to achieving the requirements for a sustainable development. During the last two decades, the interest in Green technologies and concepts (e.g. Circular Economy, Green Economy, Green Jobs, Green and Sustainable Smart Cities) has significantly increased. In addition, various new and emerging technologies in different sectors like energy, water, solid waste, air quality, agriculture, etc., mainly in the framework of modern societies digital transformation triggered and facilitated by the amazing developments witnessed by digital technologies such as 5G, IoT, AI, Big Data, etc.. Thanks to this transformation, these sectors, which can be also considered as cities' verticals, are referred to as Smart Grid, Smart Water, Smart Mobility / Intelligent Transportation System, Smart Agriculture, etc. and represent the main pillars for a resilient Sustainable Smart City.

According to ITU, a smart sustainable city is an innovative city that uses information and communication technologies (ICTs) and other means to improve quality of life, efficiency of urban operation and services, and competitiveness, while ensuring that it meets the needs of present and future generations with respect to economic, social, environmental as well as cultural aspects.

Conscious about these important issues, concerns, solutions and technologies, ICESCO and UNESCO support the promotion of Green and Resilient Sustainable Smart Cities in their member states. Indeed, fostering this cities' concept will doubtlessly contribute to improve the

life quality of their inhabitants and will become a model to follow by other cities in their endeavour towards sustainable development.

To this end, ICESCO has launched simultaneously **two important programmes:**

- **The Green City Excellence Award**” is launched and given each two years to cities from the Islamic World based on criteria proposed to meet this requirement. This Green City Excellence Award is designed as a new competition under the framework of the Award of the Kingdom of Saudi Arabia for Environmental Management in the Islamic World, targeting cities from the Islamic World for their commitments to environmental, social and economic sustainability.
- **The celebration of the Environmentally- friendly Capitals in the Islamic World:** This celebration is an opportunity to testify to the progress made in terms of exemplary environmental practices in the Islamic world and to recognize the efforts and commitments of member countries in the field of environmental preservation. Having an essential role to raise environmental awareness in our Islamic World, this celebration will constitute a favorable occasion to draw the attention of the Member States on the environmental challenges and sustainable development. On this occasion, the debates will focus on various topics related to the environment and to the fundamental questions on the protection of the environment and its consequences on the quality of life of the populations and the preservation of our planet. It will also be an opportunity to unite the efforts of the Islamic world in order to guarantee a brighter and greener future for future generations.

These two programmes take into consideration the best achievements related to environment, with a particular stress on efforts that generate green growth, and will be observed as a recognition of the important role of local authorities in making cities more environmentally friendly and in offering an exceptional quality of life, particularly, healthy and pleasant living environment for their inhabitants. It will reward the commitment to sustainable development, public engagement and local economic development.

UNESCO's approach to the development of smart cities is centred on the human element and aims to link questions of innovation and creativity with questions of social inclusion, education for global citizenship, advocacy for human rights, economy and employment, disaster risk reduction and resilience to climate change.

As part of the 2019 World Day of Cities, UNESCO gave a platform to local elected officials and other actors and decision-makers in local communities from 24 cities around the world to share their experiences, give examples of success and consider perspectives. These "urban dialogues" portray cities that rely on innovation and collective intelligence to imagine the future.

The partnership between UNESCO and the Netexplo Observatory honours places around the world that have distinguished themselves through innovation in the field of the smart, sustainable and inclusive city. The UNESCO Netexplo Forum 2020, was held online in October 2020 <http://en.unesco.org/netexplo>. The Forum consisted of two parts: Netexplo Innovation Forum 2020 and Netexplo Smart Cities Accelerator.

UCLG-Africa is the umbrella organization and the united voice representing Local Governments and Authorities in Africa. It results from the unification of the three pre-existing continental associations of Local Governments, namely the African Union of Local Authorities

(AULA), the Union des Villes Africaines (UVA) and the Africa Chapter of the Unao dos Ciudades y Capitaes Lusofono Africana, (UCCLA). The founding congress of the organization was held in May 2005 in the city of Tshwane, South Africa. UCLG Africa is the umbrella of 48 National Associations of Local Governments from all regions of Africa as well as more than 2000 cities that have more than 100.000 inhabitants. It represents at least 350 millions African citizens. In its new vision 2021-2030, UCLG-Africa is engaged to advocate for the implementation and localization of the SDGs, in particular concerning Local finances, Climate change, Culture, Access to basic public services, gender, youth, migration, peace and security, etc... One of the most lessons learned from the Covid-19 Pandemic is the cruciality to Go Digital at local and regional levels in Africa. UCLG-Africa has also a sound strategic partnership both with ICESCO and UNESCO.

II. Main Objective of the Seminar

Promoting and giving visibility to the good practices of Green Resilient and Smart Cities through solid and sustainable partnerships.

III. Specific Objectives of the seminar:

- To enhance the development of Cities in line with Sustainable Development Goals (SDGs);
- To exhort Cities actively making changes to become more environment-friendly while preserving the national heritage;
- To foster cities to actively raise citizens environmental awareness and involvement;
- To incentivize other cities to start the transformation and progress towards sustainability.
- Economic recovery in cities and urban resilience building in the time of crises (e.g. COVID-19).

IV. Expected outcomes:

- Contributing to widespread adoption of Green and Sustainable Smart City concept among member states;
- Sharing knowledge and best practices among members states;
- Issue recommendations for cities transformation into Sustainable Smart Cities.

V. Participants (Key stakeholders for cities / Sustainable Smart Cities) :

- Representatives of Ministries, municipalities and authorities,
- Universities and research centers,
- Industries,
- NGOs.

VI. Partners:

- UNESCO
- UCLG-Africa
- Ministry of the Interior;
- Ministry of Energy, Mines and Environment, Department of the Environment;

VII. Program

Day 3 June, 2021	
TIME Rabat Time GMT +1	INAUGURAL CEREMONY
10 :00 – 10 : 30	<p>Opening Words:</p> <ul style="list-style-type: none"> • Mr Mohamed Aït Benyahia, Secretary General of the Department of the Environment, Ministry of Energy, Mines, and Environment, Kingdom of Morocco. • Mr Jean Pierre Elong Mbassi, Secretary General of the United Cities and Local Governments of Africa (UCLG-Africa). • Prof. Dr Raheel Qamar, Head Sector of Science and Technology, ICESCO. • Mr. Alexander Schischlik, Acting Director, UNESCO Office in Rabat.
10 :30- 12 :00	<p>Session 1: Introduction of Sustainable & Smart Cities Concepts Moderator: Dr Najat Zarrouk, Director of Development and African Local Governments Academy (ALGA), UCLG-Africa</p>
10:30- 10:45	<p><i>From Urban Intelligence to Smart City Currency: Creating Digital Twins of Cities Through 5G, Blockchain and Crowd sourcing</i> Dr Joel Myers, IEEE Global Cities Alliance Chair / IEEE Internet of Things (IoT) Consortium Smart Cities Working Group, Vice-Chair.</p>
10:45- 11:00	<p><i>Garuda Smart City Framework Development and Some Experiences in Indonesia Smart Cities Development</i> Prof Dr.Suhono Harso Supangkat, Director of Smart City and Community innovation Center; Bandung Institute of Technology-Indonesia.</p>
11:00 – 11:15	<p><i>Smart Sustainable Cities Feasibility Studies</i> Ms.Eunbyul Elena Cho, Program Manager at the World Smart Sustainable Cities Organization (WeGO), Séoul, Korea.</p>
11:15- 11:30	<p><i>Anticipation, Smart city and urban Planification</i> Dr Kais Hammami, Director of the Center of Foresight- Islamic World Educational, Scientific and Cultural organization (ICESCO)</p>
11:30- 11:45	<p><i>Resilient Sustainable Smart Cities for Post Covid-19</i> Prof. Mohamed Essaïdi, ENSIAS, Mohammed V University, Morocco, IEEE Global Cities Alliance, MEA Chair</p>
11:45 - 12:00	<p><i>General Discussions</i></p>
12:00 –13:30	<p>Session 2: Mapping of different Countries experiences Moderator : Dr Foued EL AYNI –Science and Technology Sector- ICESCO</p>

12:00 – 12 :10	<i>The City of Benguerir, crossroads of territorial dynamics</i> Mr Hajjaj MOUSSAID , 1st Vice-President of the Communal Council of Benguerir, Morocco.
12:10- 12:20	<i>Experience of Smart Cities from Turkey’s Perspective</i> Prof. Dr Nevnihal Erdogan & Lahbib Jattioui , Kocaeli, University-Faculty of Architecture and Design, Turkey.
12:20-12 :30	<i>Towards Creative and Sustainable Cities: The Case of Uganda. République d’Uganda.</i> Dr Dominix Mundrugo OgoLali , Uganda National commission for UNESCO.
12:30 – 12 :40	<i>UCLG-Africa's commitment to climate and biodiversity through the UCLG Africa Climate TaskForce, UCLG-Africa</i> MrMohamed Nbou , Director of Climate and Biodiversity, UCLG-Africa
12:40– 12 :50	<i>Smart Cities in Azerbaijan: new opportunities and challenges</i> Dr Fuad Humbatov , Head of the Division at the Ministry of Ecology and Natural Resources, Republic of Azerbaijan.
12:50- 13 :00	<ul style="list-style-type: none"> • <i>General Discussions and Recommendations</i>
13:00– 13 :30	<i>Coffee break</i>

Day 4 June, 2021

Rabat Time GMT +1	Panel Discussion Moderator: Prof. Mohamed Essaïdi, ENSIAS, Mohammed V University, Morocco IEEE Global Cities Alliance, MEA Chair
09:30 - 12:00	<ul style="list-style-type: none">● Action Plan Preparation for Sustainable & Smart Cities Transformation (Working groups)- Strengthening national Policies, National Strategies and programs and initiatives;- Raise Awareness about the concept of Green Smart cities;- Reinforcing Technical Capacities;- Facilitate Access to Financial Resources;- Institutional restructuring and enhancement; <p>Participants (30 participants):</p> <ul style="list-style-type: none">● Dr. Kyla L. Tennin, DM (Hons), LSSWB TM, PMEC TM, FGPI, MGPI, MBA, BA (World Business Angels Investment Forum (WBAF)).● Prof. Hassan Radoine, Director & Full Professor, School of Architecture, Planning and Design, UM6P, Benguerir, Morocco.● William Scheffers, Programme Officer, Korea.● Latif Ladid, IEEE 5G Summit Series Chair, IPv6 Forum Chair.● Prof. Abdelhamid EL MOUSADIK, Vice President of IbnZuhr University in charge of scientific research.● Prof Dr.Suhono Harso Supangkat, Bandung Institute of Technology- Indonesia.● Prof Driss Kettani, Professor of computer science, Al Akhawayn University, Morocco.● Mr Mhamed Riouch, Secretary General ADAR Souss Massa Association.● Prof Marzouk Abdelkrim, Dean School of Humanities and Social Sciences, Al Akhawayn University, Morocco. <ul style="list-style-type: none">- Local participants face-to-face,- Representatives of the municipalities and ministries concerned- NGO's and Representatives of the Civil Society.

	General discussion and comments recommendations (All group)
	Closing session and forward
12:00 - 12:30	Coffee break