

Session A6 10 Years of SDG 11 Spatial Monitoring: What Have We Learnt and What Opportunities Exist for Big Data and Geospatial Information to Scale Up Efforts

Time: 13:30-15:00, 8th September

Room: 305E

Co-Chairs

Robert Ndugwa, Chief, Data and Analytics Section, UN-Habitat, Kenya

Caroline Kabaira (Senior Research Specialist, APHRC Kenya)

Michele Melchiorri, Directorate for Societal Resilience and Security,
European Commission Joint Research Centre (JRC), Italy

Mapping humanity at scale: A decade of GEO Human planet innovations and next directions

Michele Melchiorri (European Commission Joint Research Centre (JRC), Italy)

SDG 11.3.1 trackers: opportunities for scale up and global coverage

BAN Yifang (Director, Division of Geoinformatics, KTH Royal Institute of Technology, Greater Stockholm Metropolitan Area)

Assessing Urban Sustainability using SDG11.3.1 Land Use Efficiency indicator

SUN Zhongxu (International Research Center of Big Data for Sustainable Development Goals, Beijing, China)

Community-based approaches for tracking slums and informal settlements

Caroline Kabaira (Senior Research Specialist, APHRC Kenya)

Multi-source data fusions technologies based on landsenses ecology: contributions to SDG 11

DONG Rencai (Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China)

Assessment of grey-green spatial allocation relationship measurements and changes in the proportion of population served by green open spaces in China's provincial capital cities in 10 years of SDG 11

WANG Xi (Lanzhou University, China)

Bridging the gap between Artificial Intelligence and urban informal communities with participatory analytics

João Porto de Albuquerque (Director of the Urban Big Data Centre, Glasgow, UK)

Panel Discussion

Topics:

- 1) What are the key lessons learned from a decade of SDG 11 spatial monitoring in your work field, and how can these insights guide the next phase of urban sustainability efforts?
- 2) How can big data, geospatial technologies, and multi-source data fusion be applied more effectively to map housing conditions, informal settlements, and urban change at scale?
- 3) What strategies can strengthen community engagement and international

collaboration to scale up spatial monitoring and translate data into impactful urban policies?

Panel Speakers:

Dennis Mwaniki (UN-Habitat, Kenya)

Caroline Kabaira (APHRC Kenya)

Michele Melchiorri, (European Commission Joint Research Centre, Italy)
