

Conference Programme

AfricaGIS 2025 and UN-GGIM: Africa XI Joint Conference

Harnessing Geospatial Intelligence for Africa's
Sustainable and Resilient Future

17 - 21 November 2025, Alisa Hotel, Accra, Ghana



Hosted by the Government of Ghana's Ministry of Lands and Natural Resources
Convened by EIS-Africa, the Lands Commission of Ghana and the Licensed Surveyors
Association of Ghana (LiSAG)

In partnership with the United Nations Economic Commission for Africa (UN-GGIM: Africa)

Monday 17 November

8:00 – 17:30

Registration and Exhibition set-up

Workshop on the United Nations Integrated Geospatial Information Framework (UN-IGIF) (Room: TBA)

9:00 – 10:30

UN-GGIM: Africa | UN-IGIF Workshop

(Room: TBA)

More details : <https://www.uneca.org/eca-events/un-ggim-africa-2025>

Tea Break

11:00 – 13:00

Session 2

More details : <https://www.uneca.org/eca-events/un-ggim-africa-2025>

Lunch

14:00 – 15:30

Session 3:

More details : <https://www.uneca.org/eca-events/un-ggim-africa-2025>

Tea Break

16:00 – 17:30

Session 3 (Cont'd):

More details : <https://www.uneca.org/eca-events/un-ggim-africa-2025>



AfricaGIS 2025



UN-GGIM: AFRICA
UNITED NATIONS GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT FOR AFRICA

Tuesday 18 November

Official AfricaGIS 2025 Programme Opening

08:00 – 09:00	Registration	
09:00 – 11:00	Session 1: Opening Ceremony and Keynotes (Plenary Room) Arrival of Guests Master of Ceremonies (Surv Jones Ofori-Baodu) National Anthem Acknowledgement of Dignitaries present Welcoming Messages (09:30 – 11:30) 1) Cultural Opening 2) Local Organising Committee Chair (Dr Surv. Ing Samuel Larbi Darko) 3) International Organising Committee (Mr. Sives Govender) 4) FIG message (Diane Dumashie, President, International Federation of Surveyors) 5) UN-GGIM: Africa (Clinton Heimann, Chair of the UN-GGIM: Africa Executive Board) 6) UNECA opening message (Mr. Samuel Kobina Annim- Director African Centre for Statistics) 7) African Union’s African Space Agency Council (H. E Dr Tidiane Ouattara) 8) Platinum Sponsor Keynote Map Africa initiative – Strengthening Geospatial Across the Continent: A look at the Map Africa initiative. (Director Emerging Markets, Esri Inc, Sohail El Abd) 9) Official opening of the conference by the Ghanaian Government, Deputy Minister of Lands and Natural Resources (Hon Alhaji Yusif Sulemana) 10) Day one logistics and programme instructions (Technical Programme Director – Dr Kwame Adu Agyekum) Close of session	
Tea Break VIP Official Exhibition Opening Walk and VIP Meet and Greet / Press Conference		
11:30 – 13:00	Session 2: (Room: Plenary) Panel presentation and round-table discussion on strategic geospatial issues at a continental level. 1. The True Geography of Africa: Regional Resources, Supply and Value Chains in a Single Integrated Market, Jacob Gyamfi-Aidoo (Intra-Africa Trade Capacity Centre) 2. The importance of Financial Justification of Geospatial Investments and customisation for different funding bodies, Andrew Coote (ConsultingWhere) 3. Google Open Buildings, Abdoulaye Diack (Google Maps)	Workshop on the United Nations Integrated Geospatial Information Framework (Room: TBA) Session 4: More details: https://www.uneca.org/eca-events/un-ggim-africa-2025



	- Capacity building strategies and initiatives to support geospatial science and technology sustainability in Africa, Dr Bolelang Sibolla (CSIR/NEOSS) - Geospatial Intelligence for Conflict Risk Resilience in Africa, Arioluwa Aribisala (PeaceEye) Chairperson: Jacob Gyamfi-Aidoo	
Lunch		
14:00 – 15:30	Session 3 : (Room: Plenary) Smart and sustainable Natural Resource and Disaster Management systems - Resolve Water: Geospatial AI to Turn Water Risk into Investment-Ready Resilience in Africa, Rochelle Mountany (AfriGIS) - Strengthening Disaster Management Capabilities in Africa Through Earth Observations -The SPEAR Project, Dr.Klaus Greve, (University of Bonn) - The intended use of large language models (LLM's) in the automation of indicator extraction for the purpose of measurements of urban resilience in cities, Edroy Christians, (Statistics South Africa) - Temporal Dynamics in the Black Volta Basin: Insights from Trajectory Analysis, Dr. Bilintoh Thomas - To Provide Very Recent, Accurate and High-resolution 1:5000 Basemap of Africa, Dr. Wei Sun (OMEQ) Chairperson: Marie Makuate	Workshop on the United Nations Integrated Geospatial Information Framework (Room: TBA) Session 5: More details : https://www.uneca.org/eca-events/un-ggim-africa-2025
Tea Break		



16:00 -17:30	Session 4 :(Room: Plenary) Sub-theme Oceans and Coastal Management 1. Harnessing GIS and Remote Sensing Technologies for Wildlife Monitoring in the Avu Lagoon Community Protected Area (ALCPA), Dr. Richard Adade (University of Cape Coast Ghana) 2. Geospatial Assessment and Socioeconomic Implications of Shoreline Change along the Ondo State - Nigeria Coastline, Oyinade Uvere (Federal University of Technology Nigeria) 3. Ecological Characterization and Coastal Interactions between the Red Sea Environment and Mangrove Ecosystem, Egypt, Mohamed Salem Hussien Ahmed (Suez University Egypt) 4. Environmental Survey for Some Climate-Related Coastal Vulnerabilities in the Mediterranean Sea, Egypt, Ahmed Ashraf (Suez University Egypt) 5. Coastal Erosion in small island communities in West Africa, Thiaw Gilbert (UCAD Senegal) Chairperson: Raymond Molapo	Workshop on the United Nations Integrated Geospatial Information Framework (Room: TBA) Session 6: More details : https://www.uneca.org/eca-events/un-ggim-africa-2025
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Wednesday 19 November

GIS Day

08:00 – 09:00

Registration

09:00 – 10:30

Session 5: Technical Plenary (Plenary Room)

Keynote Plenary (20 minutes each): Innovation, Products, Strategy and Partnerships with Africa

1. AU AfSA Space Council strategic vision, HE Dr. Tidiane Ouattara (AU AfSA Space Council)
2. OGC strategies and vision, Nigel Edmead (Open Geospatial Consortium)
3. Advancing the Power of Geography for Africa with GIS, Sohail El Abd (Esri)
4. Growing local competencies, Rochelle Mountany (AfriGIS)

Chairperson: Stephen Djava

Tea Break

11:00 – 12:30

Session 6: (Plenary Room)

Sub-theme Spatial Data Infrastructure and related strategies

1. Organizational Spatial Data Infrastructure at the Geological Survey of Namibia: Driving NSDI Implementation for Sustainable Development, **Dr Essen Mowa (Ministry of Industries, Mines and Energy NAMIBIA)**
2. Geospatial Leadership – Bridging the Skills Divide, **Andrew Coote (ConsultingWhere)**
3. Open Data considerations for the implementation of a Digital Twin of the Ocean: MarCOSIO use case, **Dr Raymond Molapo (CSIR)**
4. Geospatial AI. Spaceborne AI Algorithms for Earth Observation, **Titus Kiragu (Star.Vision)**
5. Optimised Deep Learning Techniques for building extraction and spatial urban analytics in Accra Ghana, **Abdul Rahim Yakubu**
6. Product and services for Africa, **Samer Jad (GeoConsult)**

Chairperson: Kwame Adu Agyekum

More details:

<https://www.uneca.org/e-ca-events/un-ggim-africa-2025>

Lunch



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13:30 – 15:00	Session 7:(Plenary Room)  Sub-theme Smart/Innovative Data-Driven Governance and Policy Support 1. Empowering Communities: Leveraging Geospatial Data for Enhanced Mapping and Development, Holli Howard (Google Maps) 2. Designing a Geospatial Tracking System for Ovine and Bovine Monitoring in the Mayo-Kebbi West Province of Chad, Kella DOUZOUNÉ (AFRIGIST) 3. Establishment of an interactive Dashboard showing accreditation status of Institutions studying surveying in Nigeria, Uju Ogochukwu Izuegbu, (Office of the Surveyor General of the Federation-Nigeria) 4. Innovations for Africa Digital Census Mapping (Enumeration Area Delineation) - Nigeria's Digital Census Mapping, Sani Shehu (Milsat Technologies Limited) 5. Leveraging Geospatial Technologies to Identify Optimal Locations for Solar Photovoltaic Farms in the Central Region of Ghana: A Multi-Criteria Decision Approach, Emmanuel Somiah, (University of Energy and Natural Resources) Chairperson: Sives Govender	More details : https://www.uneca.org/eca-events/un-ggim-africa-2025
15:30 – 17:30	Session 8: (Plenary Room) Sub-theme Risk/Environmental Monitoring and Ecosystem Management 1. Integrating Geospatial Technologies and Seasonal Forecasting for Enhanced Disaster Risk Reduction in Ghana. Samuel O Ansah, (Ghana Meteorological Agency G-Met) 2. Monitoring Land Degradation Neutrality in the Birim North Mining Community of Ghana, Aaron Tetteh, (University of Energy & Natural Resources) 3. Downscaled Climate Projections for Ghana Using the KAPy Framework, Maureen Ahiataku, (Ghana Meteorological Agency G-Met) 4. IDW, Spatial Air Quality Monitoring, GIS Hotspot Analysis, Urban Ecosystem Management, Eugene Odame	More details : https://www.uneca.org/eca-events/un-ggim-africa-2025



5. Assessment of coastal Risk predisposition along the Ivorian Sandy Coastline, **Henoc Gnamele**

Chairperson: Kella Douzoune

Tea Break



Thursday 20 November
FINAL DAY of AFRICAGIS

8:00 – 9:00

Registration

9:00 – 10:30

Session 9 : Technical Plenary

Venue : Plenary Room

Land economics, spatial activity and principles of governance

- 1) Strategies for land economics, spatial activity and principles of governance, Diane Dumashie (FIG)
- 2) UN-GGIM: Africa perspectives, Clinton Heimann (UN-GGIM: Africa)
- 3) Ghana Lands Commission, Dr Wordsworth Odame Larbi (Lands Commission)
- 4) Border Governance: Support to the African Union Border Programme, Yannick Le Gléau (GIZ AU)
- 5) Collaborative Ecosystems for Land Administration, Tim Fella (Esri).

Chairperson: Bolelang Sibolla

Tea Break

11:00 – 12:30

Session 10: (Room: Plenary)

Sub-theme Land Planning, infrastructure Management and Administration

1. ESRI's GIS for Good programme, **Salim Sawaya (Esri)**
2. Establishment of Continuously operating reference Stations (CORS) for land management and Infrastructure Development in Ghana, **Naa Seidu Abu Zakaria (Lands Commission)**
3. Overview of Land Administration in Ghana, **Dr. Benjamin Quaye (Land Commission)**
4. GIS-optimized bin location on KNUST campus, **Vanessa Nyarkoa Solomon (Kwame Nkrumah University of Science and Technology)**
5. Evaluating Environmental Degradation from Artisanal and Large-Scale Mining in Amansie West district, Ghana, **Jefferson-Aaron Ayerbi Totimeh (Kwame Nkrumah University of Science and Technology)**
6. Bridging the Urban Data Divide: The Colouring Ghana Model for Scalable, Crowdsourced Building Data in Africa. **S.A. Andam-Akorful (Kwame Nkrumah University of Science and Technology (KNUST))**

Chairperson: Izuegbu O Uju

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Lunch		
13:30 – 15:00	Session 11: (Room: Plenary) Sub-theme New Geospatial Technologies and Ethics 1. Geospatial driven land administration and Land Use Planning, Alex Rutagengwa (National Land Authority Rwanda) 2. Automatic building footprint extraction from UAV imagery GeoAi, Harriet Ahorsu et. Al (KNUST) 3. Modelling Urban Ground Deformation in greater Accra Region, Emmanuel Adu-Afari (Kwame Nkrumah University of Science and Technology) 4. Ethical Geospatial Intelligence for Social Sustainability: Lessons from the International Cocoa Initiative's Child-Protection and Geospatial Technology Framework, Martinson Yirenkyi-Smart (International Cocoa Initiative) Chairperson: Marie Makuate	More details : https://www.uneca.org/eca-events/un-ggim-africa-2025
Tea Break		
15:30 – 17:30	Session 12: (Room: Plenary) Sub-theme: Land use and Oceans and Coastal Management 1. Mangrove Blue Carbon Stocks Assessment in Woarabeba, Effutu Municipality of Ghana, Lord Offei-Darko, University of Ghana 2. Coastal Change Monitoring from Space: A Multi-Sensor Approach, Angela Bubune Bleboo 3. Geospatial Analysis of Sanitation in Urban Slums, Ansah Dennis Appiah, KNUST 4. GIS and Remote Sensing: A monitoring Tool for Abusco Roads, Ansu Lawrence, KNUST 5. Comparative Analysis of CMS and Drone-Based LiDAR-SLAM in Underground Mines – A Case Study, Judith Opoku Agyemang (University of Mines and Technology Ghana) Chairperson: Izuegbu O Uju	



END of AfricaGIS 2025 Programme

UNECA, LOC, AARSE and IOC closing remarks

LEICA Sponsored Cocktail



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Friday 21 November

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Tea Break

11:00 – 13:00

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Lunch

14:00 – 15:30

More details : <https://www.uneca.org/eca-events/un-ggim-africa-2025>

Tea Break

TBA

Closing session of UN-GGIM: Africa XI and AfricaGIS 2025 Conference

Closing messages:

- Local Organising Committee Chair (Dr Surv. Ing Samuel Larbi Darko)
- International Organising Committee (Sives Govender)
- UNECA closing message (Andre Nonguierman)



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