## **UN-GGIM.AFRICA**

CLINTON HEIMANN

AFRICA GIS CONFERENCE

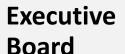
ACCRA • 20 NOVEMBER 2025





# UN-GGIM. AFRICA | GOVERNANCE AND INSTITUTIONS

UN-GGIM: Africa is the regional coordination mechanism mandated to strengthen geospatial governance across the continent.



Chair: Morocco

1st Vice-Chair: Burkina Faso

2nd Vice-Chair: Mozambique

1<sup>st</sup> Rapporteur: Burundi

2<sup>nd</sup> Rapporteur: Congo

Ex-Officio: Ethiopia

Secretariat: UNECA



**UN-GGIM Africa** 

(2025/26)

**Executive Board** 

-Morocco - Burkina Faso -Mozambique - Burundi - Congo - Ethiopia - ECA

WG 1.IGIF

Integrated Geospatial Information Framework - South Africa

WG 2.ISGI

Integration of Geospatial & Stats - Cameroon

WG 3.AFREF

Geodetic infrastructure - Côte d'Ivoire

WG 4.LAM

Land Administration and Management - Morocco

# UN-GGIM.AFRICA THE JOURNEY SO FAR...

2011 2014 2015 2016 2017 2018 2019 PREPARATORY INCEPTION FIRST SECOND THIRD FOURTH FIFTH MEETING MEETING MEETING MEETING MEETING MEETING MEETING **KIGALI** ADDIS ABABA TUNIS NAIROBI **ABIDJAN** ADDIS ABABA ADDIS ABABA October December October October November August October 2020 2021 2022 2023 2024 2025 20XX SIX SVENTH EIGHT NINTH TENTH ELEVENTH XXXXX MEETING MEETING MEETING MEETING MEETING MEETING X X X XVIRTUAL ABIDJAN ADDIS ABABA CAPE TOWN ADDIS ABABA ACCRA xx<sup>th</sup> Meeting October November October October October August



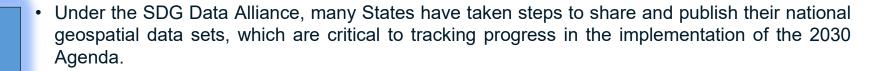
## UN-GGIM.AFRICA | KEY PROGRAMMES & INITIATIVES



 Study on developing an overarching mechanism for holistic geospatial information governance in Africa, with the overall objective of obtaining a high-level political recognition of the importance of geospatial information in Africa.



**Knowledge** Capacity





Integrated Frameworks

- UN- IGIF: Several countries have started the development of their national action plan utilizing the UN-GGIM approach.
- Most countries remain in the early stages of the needs assessment and situational analysis
- Burundi, Mali, Mozambique and Rwanda, have achieved tangible results.
- GSGF: The Regional Committee, through ECA and in partnership with the national statistical offices of Kenya, Togo and the United Kingdom of Great Britain and Northern Ireland and the United Nations Population Fund, organized several capacity-building workshops to empower participants with the skills and knowledge that are needed for the development of geocoding schemes for spatial analysis of census data in Africa



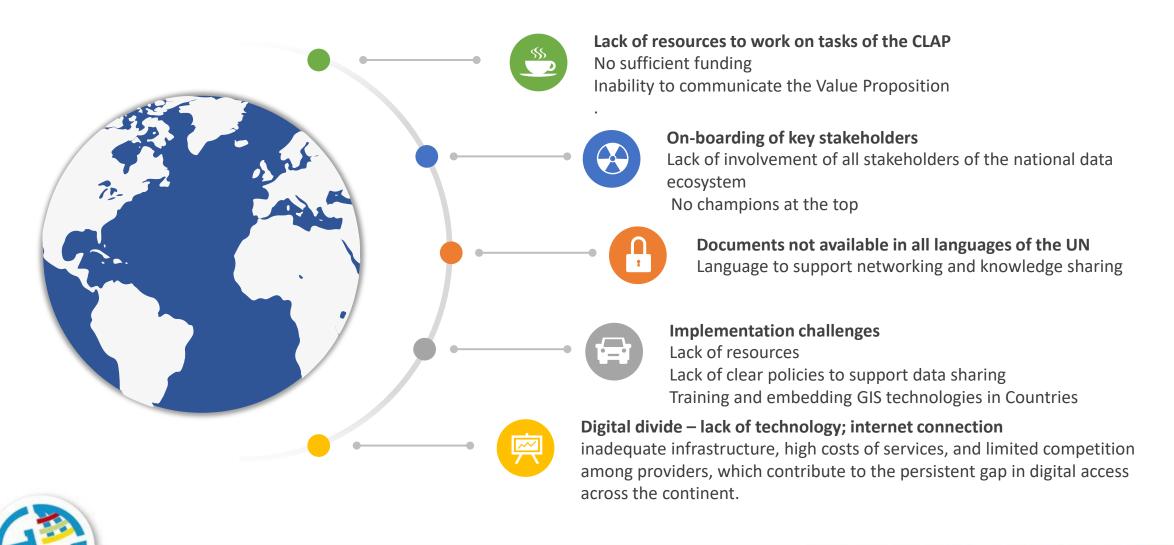
- UN-GGIM: Africa 10<sup>th</sup> Session held back-to-back with the 9<sup>th</sup> StatCom-Africa (28 Oct 1 Nov. 2024).
- The 10<sup>th</sup> Session was attended by more than 80 participants from about 25 African countries.
- UN-GGIM 15<sup>th</sup> Session in New York 5-9 August 2025
- 7th High-level Forum in Mexico, 8-10 October 2024
- IAC Meetings | UN-GGKIC | UN-GGCE



## UN-GGIM.AFRICA STATE AND PROGRESS IN AFRICA

Country	Model	Status of the CAP	TUNISIA
Burkina Faso	Development Account	Completed 2022	MOROCCO
Burundi	NSDI Approach Outsourced	National Strategy Developed Alignment with UN-IGI CAP Underway	ALGERIA LIBYA EGYPT
Cameroon	UN-GGIM Approach	Completed 2024	MAURITANIA
Côte d'Ivoire	UN-GGIM Approach	Commenced in 2024. Task 4 – 6 Stages	MALI NIGER SUDAN ERITREA  SNECOL BURKINA HASO  DUBOUTI
Djibouti	N/A	Early stage of gathering preliminary information	REPUBLICAN SOUTH SUDAN  SOMALIA  SOMALI
Ethiopia	Development Account	Completed 2022	EQ. GUINEA  BARTOME AND  GABON MED  GABON MED  KENYA
Eswatini	UN-GGIM Approach	Task 3 Stage	DR CONGO BURUNDI SEYCHELLES
Mali	UN-GGIM Approach	Draft action completed Waiting final adoption by stakeholders CLAP Complete	TANZANIA COMOROS COMOROS
Mozambique	UN-GGIM Approach	Task 3 Stage	SAINT HELENA  ANGOLA  ZAMBIA  MOZAMBIQUE  MALEN  MA
Rwanda	UN-GGIM Approach	Aligning draft Strategic Plan with UN-IGIF CAP	NAMIBIA BOTSWANA
South Africa	Hybrid (Outsourced but following the UN-GGIM Approach)	Awaiting contractor appointment	LESOTHO SOUTH AFRICA
Senegal	World Bank	Completed 2024	
U		tions Secretariat ospatial Information Management	Positioning geospatial information to address global challeng ggim.un.

## UN-GGIM.AFRICA TYPICAL AND GLOBAL CHALLENGES



## UN-GGIM.AFRICA | FGIE SURVEY RESULTS









**Grounded Perspectives** 

41% of inputs came from public agencies - those closest to implementation pain points

Global South in Focus

Over 70% of responses came from Africa, Asia-Pacific, and Latin America

Diverse Expertise

Technical, policy, civil, and private-sector voices all shaped the findings

Voices from the Field

232 stakeholders in 6 regions have responded to the survey and voiced their opinions

Region	Number of respondents	Percentage
Africa	88	38%
Asia-Pacific	49	21%
Latin America and the Caribbean	30	13%
Europe, North America, Arab	65	28%
States		
Total	232	100%

- 41% (95 respondents): National and local government agencies
- 23% (54 respondents): Universities and research institutions
- 18% (41 respondents): Private sector geospatial and ICT firms
- 12% (27 respondents): Civil society or NGOs
- 6% (15 respondents): Multilateral agencies and UN bodies



# Key findings (1/4)

## What's Broken and What Needs Fixing?



1. Siloed Systems

Fragmentation of institutional architectures across agencies delays decisions and blocks innovation

147 out of 232 respondents (63%) described their national or institutional geospatial systems as fragmented across multiple ministries, sectors, or governance tiers.



2. Missing Legal Guardrails

Legal and normative gaps: No clarity on who owns what data—or who's accountable for misuse

119 respondents (51%) flagged the absence of legally enforceable norms governing spatial data ownership, Al usage in public systems, ethical safeguards, and public accountability



3. Skills Without Systems

Disparities in readiness: Tech exists, but capacity and coordination lag far behind

130 respondents (56%) reported significant disparities in institutional and technological readiness, both across and within countries.



## Key findings (2/4)

## What's Broken and What Needs Fixing?



#### 4. Value based Governance

Human rights principles need to be Integrate into the design of the future geospatial ecosystem, with safeguards against exclusion, surveillance, and elite data monopolies.

40% of respondents (n=92) explicitly emphasized the need for geospatial systems to embed ethics, rights, equity, and inclusion.. Failure to serve marginalized communities, including: (1) Indigenous populations; (2) Informal settlement dwellers; (3) Rural and underrepresented groups



#### 5. Delivery over theory

A recurring pattern across the survey was a strong sense of frustration with conceptual frameworks that fail to translate into operational tools.

res pondents (51%) flagged absence of legally enforceable norms governing spatial data ownership, Al public systems, ethical usage safeguards, and public accountability. This underscores the need for tools such budget alignment models, procurement-ready templates, and regionally adapted toolkits.



#### 6. Interoperability

Interoperability must be designed into future geospatial ecosystem, at multiple layers and not only technical, but also legal and procedural.

respondents 75 (32%)cited interoperability as an essential but underachieved principle digital transformation. Government respondents emphasized the absence of shared definitions, inconsistent metadata protocols, and legal fragmentation across departments. Meanwhile, private sector participants called attention to the lack of integration between proprietary platforms and public systems.

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United Nations Secretariat

**Global Geospatial Information Management** 

## Key findings (3/4)

## What's Broken and What Needs Fixing?





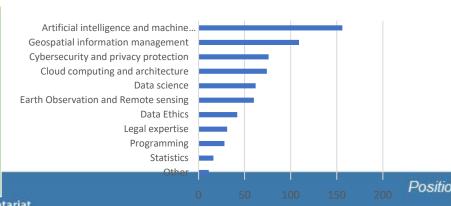
25% of respondents cited AI and blockchain as both transformative and risky, with divergent regional priorities and ethical concerns.

58 respondents expressed a spectrum of positions: (1) Some emphasized potential benefits such as predictive analytics, workflow automation, and real-time data enhancement. (2) raised concerns about ethical risks, algorithmic opacity, and (3) over-reliance on unregulated private-sector platforms.



8. Capacity gaps in key skills

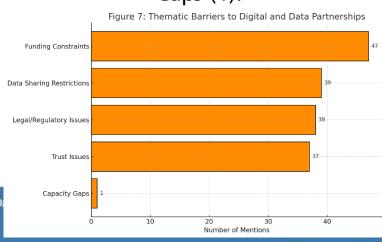
AI/ML, GIS, and legal expertise were most cited; respondents stressed multidomain training for spatial governance.





#### 9. Barriers to partnerships

Funding constraints (47%), Data sharing restrictions (39), Legal and Regulatory Issues (38). Trust Issues (37). Capacity Gaps (1).



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## Key findings (4/4)

### What's Broken and What Needs Fixing?



10. Emerging Technologies for impact

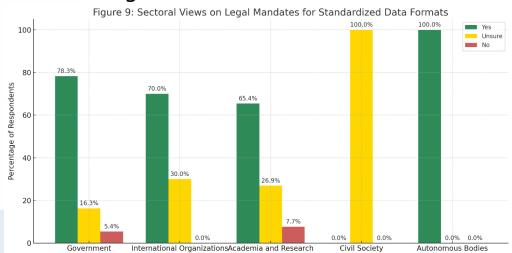
Al will dominate the digital geospatial agenda many of these technologies are not equally accessible or deployable, particularly in lowconnectivity contexts

Artificial Intelligence (135) Automation (50), Geolocation & Mapping (49), and IoT (48). Blockchain (28) and Digital Twins (26): Big Data, Remote Sensing, and Cloud Computing each cited by fewer than 20 respondents, suggesting they are now considered enabling infrastructure rather than "emerging" frontiers.

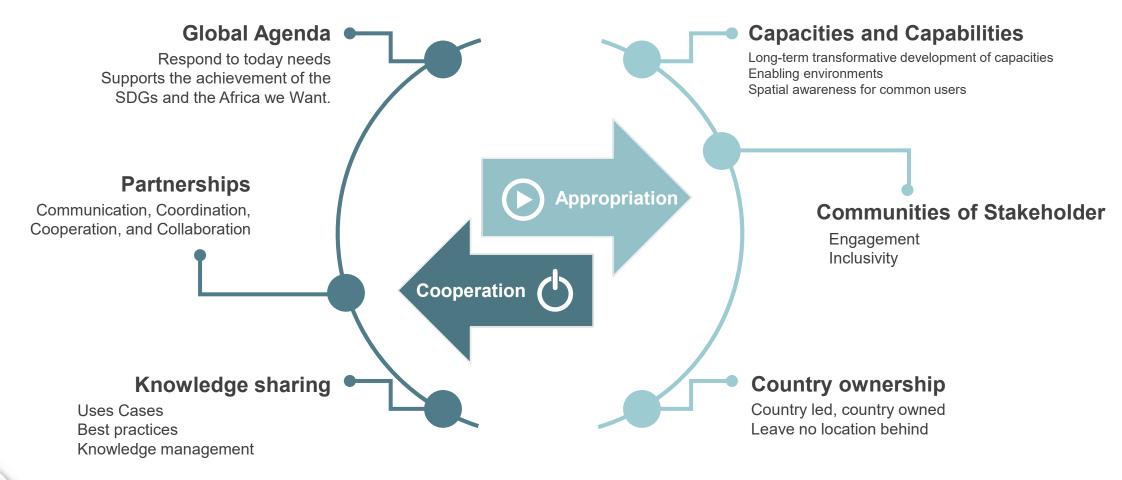


#### 11. Legal Data Format Standardization

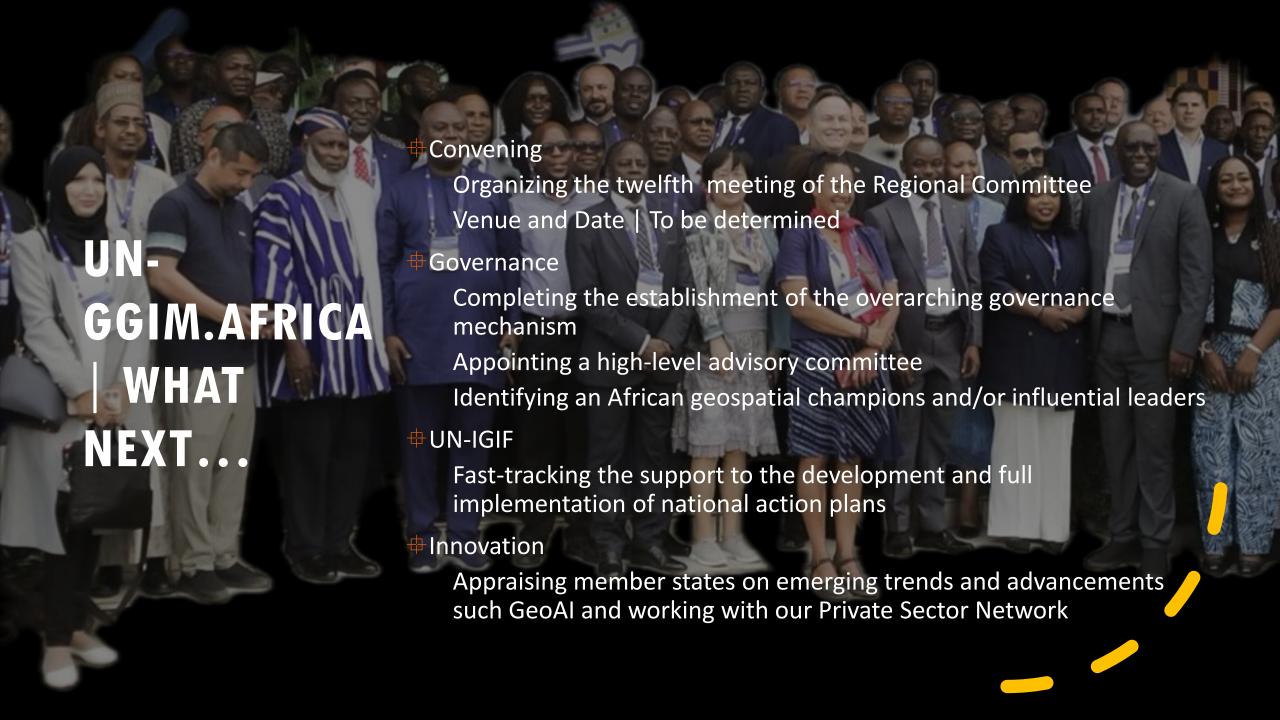
Strong cross-sectoral consensus on data standardization, legal enforcement remains a contentious or unfamiliar concept in non-governmental domains.

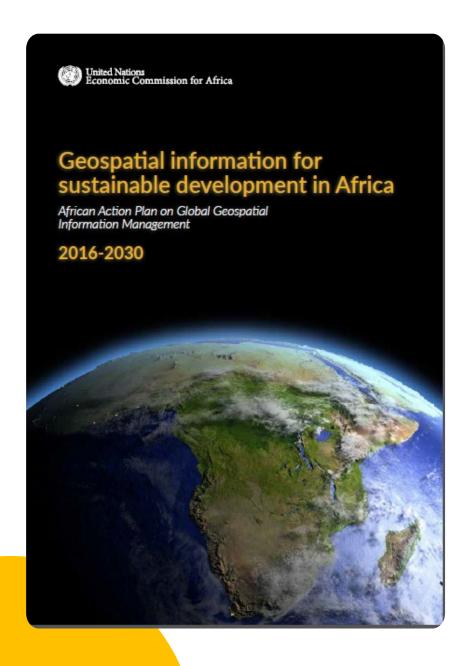


# UN-GGIM.AFRICA OPPORTUNITIES









## Know More...

• The African Action Plan

English |



French |





