

Africa Geodesy Capacity Development Workshop

Advancing Fit-for-Purpose Land Administration in Sub-Saharan Africa

The Intersection of Geodesy and Land

Governance

Land Governance Challenges in Sub-Saharan Africa

- Colonial Legacy: Pluralistic property regimes and displacement
- **Poor Governance:** Corruption, lack of transparency, and inadequate land information systems
- **Gender Inequality:** Limited access to land for women and vulnerable groups
- Rapid Urbanization: Increasing pressure on land resources and informal settlements
- **Tenure Insecurity:** Around 10% of rural land in Sub-Saharan Africa is registered

Sub-Saharan Africa has the most land available yet the highest productivity gap among regions and the highest poverty rate!

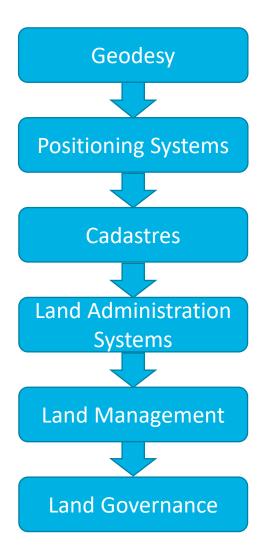






Role of Geodesy in Land Governance

- Provides foundational spatial framework for land administration
- Modern surveying and mapping tools to support land management
- SDIs to support decision making on various GEOSS themes – agriculture, climate, biodiversity etc.
- Secure land tenure systems
- Accurate geospatial data reduces conflicts over land ownership and boundaries
- Sustainable systems for land management, land valuation and land development





Fit-for-Purpose Land Administration

- FFP LA principles promote the adoption of practical, scalable and cost-effective solutions
- Modern geodetic solutions provide:
 - Flexibility: Adaptable to different contexts
 - Affordability: Cost effective for resourceconstrained regions
 - Inclusivity: Ensures participation of all stakeholders
 - Attainability: Enables quick and scalable land rights recordation







Benefits of Integrating Geodesy in FFP LA Interventions

- Improved Land Governance: Accurate data supports transparency and accountability
- Enhanced Tenure Security: Reduces disputes and promotes equitable access to land
- Sustainable Development: Facilitates better land use planning and environmental management
- Support for SDGs: Contributes to poverty reduction, gender equality, and sustainable cities

Integrating geodesy with FFP LA can contribute in achieving efficient land governance and ultimately sustainable development







Application of Flexible Land Recordation Solutions

- Informal settlements: Kenya, Uganda, Zambia, Nepal, Philippines, Namibia, Colombia
- Customary tenure: Philippines, Laos, DRC, Uganda, Zambia, St. Lucia, St. Vincent and the Grenadines
- Natural resource management: Uganda, DRC, Kenya
- Post-crisis: Iraq, Sudan, Syria, Kenya-Kakuma, Nepal
- Formal land information/registration system: DRC, Nepal and Namibia







Moving Forward...

- Invest in Geospatial Infrastructure:
 Strengthen geodetic networks and land information systems
- Promote Fit-for-Purpose Approaches:
 Tailor land administration systems to local contexts
- Foster Collaboration: Engage governments, communities, and geodesy experts
- Capacity Building: Train professionals in geodesy and land administration
- Leverage Technology: Use affordable tools like Social Tenure Domain Model (STDM) and open-source software

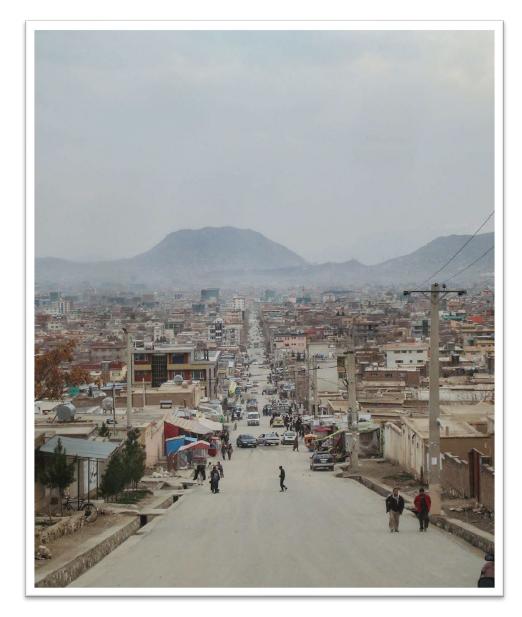




Conclusion

- We are aware of the challenges
- We have the potential solutions
- We have innovative concepts, tools and practices
- We have the opportunities

WE CAN BE THE CHANGE AGENTS!





Thank you

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