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Land registration and fit-for-purpose land administration

Fit-for-Purpose Land Administration

How GIS technology can support

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- Flexibility in spatial data capture approaches to provide for varying use and occupation.
- Inclusive in scope to cover all tenure and all land.
- **Participatory** in approach to data capture and use to ensure community support.
- Affordable for the government to establish and operate, and for society to use.
- **Reliable** in terms of information that is authoritative and up-to-date.
- Attainable in relation to establishing the system within a short timeframe and within available resources.
- Upgradeable with regard to incremental upgrading and improvement over time in response to social and legal needs and emerging economic opportunities.

FLEXIBILITY WITH DATA CAPTURE

DATA MODEL (LADM-profile)





INCLUSIVE IN SCOPE FOR ALL LAND TENURE



PARTICIPATORY – MAKUENI COUNTY KENYA - FFP



PARTICIPATORY – COLUMBIA - FFP



PARTICIPATORY – FORMAL SURVEY - FFP



RELIABLE AND AUTHORITATIVE



UPGRADABLE

- Open data / formats ٠
- Industry standards ٠
- Well documented ٠
- Robust •

- Supported
- Maintainable •
- Scalable Horizontal / Vertical •
- Configurable •
- User community •

AFFORDABLE: THINK CAPEX - THINK OPEX

AFFORDABLE – THE REVENUE CYCLE

ATTAINABLE

I. Initial Operating Capability

II. Integrated Enterprise System

ATTAINABLE

ATTAINABLE (IGIF)

Policy definitions

- Cadastre / Land Registration
- Spatial data infrastructure
- ICT
- Standards and guidelines
 - Cadastre / Land Registration
 - Spatial data infrastructure
 - ICT including Security

Organization

- Cadastre / Land Registration Workflows
- Roles and responsibilities
- Skill sets

- Technology Platform
 - Build
 - Identify requirements
 - Develop design
 - System architecture
 - Workflows
 - Data model
 - Services
 - Deploy hardware and software infrastructure
 - Configure, enable and customize
 - Test and verify
 - Deploy to operations
 - Operations and Maintenance
 - Expand the system

- Data
 - Physical data scheme
 - Data Loading
 - Data capture
 - Data conversion and migration
- Communication
 - Outreach
 - Marketing
 - Training
- Funding
 - CAPEX
 - OPEX

- GIS technology today is:
 - Flexible as it supports multiple data streams
 - Inclusive as data models can support tenure and all land areas
 - **Participatory** as data capture and content is transparent.
 - Affordable (short-medium-log term) when adapted to the circumstances
 - Reliable as it can ensure authoritative and up-to-date data
 - Attainable as many GIS systems are configurable
 - **Upgradeable** by being build on Service Oriented Architecture supporting villages to nations on premise or in the cloud

THANK YOU FOR THE ATTENTION!