

Data sharing KWS experience

Toward Kenya National Spatial Data
Infrastructure

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Introduction

- The ability to discover and access geographic data resources for use by scientist and managers is still a problem within the organization
- Support is a requirement to enable users to access the data
- KWS has managed to list its data requirements

Data requirements

In order to implement KWS mandate the following spatial data were identified

Ecosystem wide spatial data

- ⑩ Extent of ecosystem- what do we consider
- ⑩ Biodiversity hot spots and important species distribution
- ⑩ Wildlife movement, dispersal area and migration corridors
- ⑩ Specific species management areas i.e. Rhino and Hirola
- ⑩ Water shed, wetlands water, points and catchments
- ⑩ Critical and fragile ecosystem
- ⑩ Natural features (escarpments, mountains, plateaus and plains) and climatic considerations (Humid, sub-humid and semi arid)

Data requirements

Socio-economic

- ⑩ Critical areas for stakeholder interaction (conservancies)
- ⑩ Areas with high potential for economic development
- ⑩ social economic challenges (industrialization, population pressure and land use change, bush meat)
- ⑩ Distribution of protected area and KWS stations.

Administrative data

- ⑩ Access to the administrative centers
- ⑩ Infrastructure distribution (roads, telephone, water supply)
- ⑩ Spatial dimension of conservation activity (i.e. security, tourism, community conservation)

Spatial analysis required

- Wildlife population trends and population dynamic
- Land use changes, pressures on dispersal and migratory routes
- Movement and distribution of endangered species
- Vegetation changes and invasive species
- Resource inventories mapping
- Biotechnology and bio prospecting areas
- Genetic distribution
- Land use planning, analysis and prediction
- Links to databases and decision support systems
- Disease out breaks areas and mapping preventive measures.
- Wildlife reintroductions and restocking (translocation) analysis

Challenges

- Developing data sharing mechanism within KWS – policy underdevelopment
- Developing mechanism for sharing spatial data with partners (portals?)
- Only 40% of the required data is available
- Developing a transparent system for protecting Intellectual Property Rights (metadata)
- Taking the lead as the authority for providing the KNSDI with wildlife spatial data

Q&A

Thank you