GEF Biodiversity & Land Degradation Dashboard

Introduction

This report summarizes a pilot project that showcases a data dashboard developed to monitor and visualize Global Environment Facility (GEF) projects focused on biodiversity and land degradation in Kenya. It is designed for decision-makers, project managers, and conservation stakeholders to understand how data and visuals can guide environmental interventions.

Project Purpose

The dashboard's main objective is to simplify how biodiversity and land-related project data is collected, analyzed, and presented. It enables users to easily assess where projects are located, their size, species impacted, and current ecological threats - all through a visual, map-based interface.

Scope of the Pilot

This pilot uses simulated data from three locations:

- Nairobi National Park: Focused on habitat restoration.
- Ngong Forest: Centered on community forest management.
- Kereita Forest: Aims at soil regeneration and erosion control.

Each site includes attributes like project name, species count, land area, threat level, and status.

Outputs Produced

The system generates three main outputs:

1. A CSV file for reporting and statistical review.
2. A spatial shapefile for GIS mapping.
3. A printable PNG map showing project locations and their ecological risk levels.

These help streamline communication with both technical and non-technical stakeholders.

Key Benefits to Management

- Visual monitoring of projects helps prioritize high-risk areas.
- Summary maps support faster decision-making during planning and reporting.
- Data standardization ensures future integration with UNEP or GEF systems.
- Reduced need for raw data interpretation - everything is visually presented.

Future Opportunities

With real-time or actual project data, this dashboard can be scaled up to support national or regional environmental reporting. It can also be linked to online platforms and mobile tools for broader stakeholder engagement.

Conclusion

This pilot demonstrates how simple tools can help transform environmental project data into meaningful, actionable insights. With minimal inputs, managers can access clear overviews of where and how biodiversity projects are making an impact.