Geospatial & Statistical Information for Planning & Risk Management

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What is SERVIR?

**Goal:** Improve environmental management and resilience to climate change

**Objective:** Strengthen capacity of government decision-makers and other key stakeholders to integrate Earth observation information and geospatial technologies into development decision-making

**Approach:** Leverage agency (NASA & USAID) strengths for impact
SERVIR in West Africa

The Consortium

Area of Current Activities & Focal Countries
Connecting Village to Village

Consultation & Needs Assessment

Stakeholder Mapping

Service Design & Planning

Prototyping, Testing & Implementation

Evaluation & Learning
SERVIR Service Areas

- Agriculture & Food Security
- Land Use, Land Cover & Ecosystems
- Water and Water-Related Disasters
- Weather & Climate
Consultative Process Leads to Theory of Change

Agriculture & Food Security

Land Use, Land Cover & Ecosystems

Water and Water-Related Disasters

Weather & Climate

SHM

CNA

Dev. Pblm.

ToC
From Service Areas to Service Packages

Data
Product
Tool
Platform
Training

Service Components

Service Package

Service Delivery

IMPACT

BENEFICIARIES
What SERVIR is NOT
Data & Data Standards Impact Pathway

- Establish means of open access to data and tools for decision-making
- Promote free and open data access amongst partners
- Agree standards and formats for data
- Comply with USAID & US Government free data access regulations
Relevance to the West African Region

SERVIR WA Approach:
• Bottom Up Generation and Sharing of Data
• Explicit Agreements Amongst Partners
• Demand-Driven Service Selection
• Co-Development of Services and Data
• Federated System of Data Holdings
• Redundancy in Architecture
• Attention to Bandwidth

The West African Region
• SERVIR GIT requirements form a microcosm of the Region
• SERVIR WA Partners are technical champions for GSDI
• Need to identify Policy Champions
Overcoming Obstacles to Further Progress

- Cost Recovery becomes Fee for Service
- Confidence in Cloud Solutions for Data Storage, Access and Computing
- Cloud-Based Application Access given Internet Bandwidth and Stability
- Interoperable Standards Accepted
- Culture of Mutual Exchange and Support
- Acceptance of Free and Open Data policies
The Case of Landsat

USGS received revenues of $4.5m for Landsat data annually, but mostly from other gov’t agencies, and gov’t funded universities.

After the change, generated $1.5b worth of benefits.

Source: CIESIN
Investing in Open Data

Economic benefits of open public sector information in the EU27

Active GSDI Efforts in West Africa

Issues:
- Funding
- National Policies
- Regional Champions

Opportunities to Build Upon:
- UNECA Efforts
- UMOA Roadmap
- SERVIR Regional Data Workshop
- Africa GIS 2017 & UN-GGIM
- AfriGEOSS 2018

Sources: UNECA, National Reports
Roadmap for Regional GSDI Progress

1. Find Champions
2. Engage ECOWAS
3. Define Objectives & Timeline
4. Create Vision & Architecture
5. ACT!
   - Adapt to National Structures
Trends to Capture

• New technologies
• NewMedia
• Cloud solutions
• Cloud-based Application Access
• New Sensors and Citizen Science
THANK YOU