Building Resilience using Space Technology - Ghana as a case study

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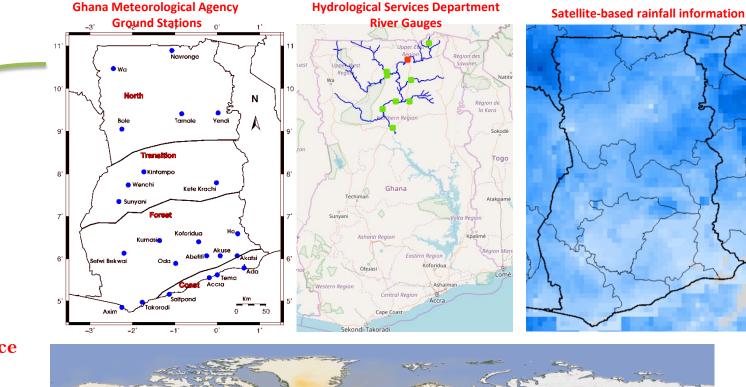
National Disaster Management Organisation (NADMO - GHANA)

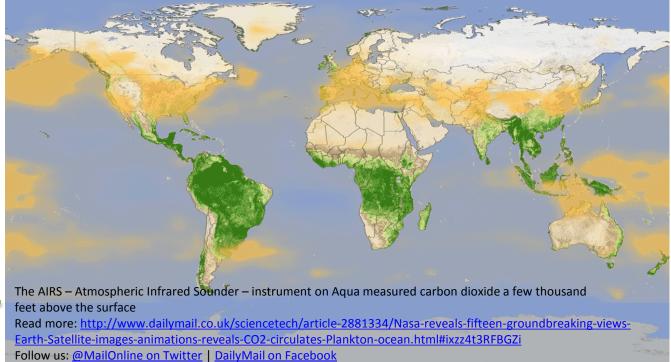
Presentation Overview

Spatial Catalogue Development

- Existing situation
 - ➤ Insitu data:
- Three-dimensional Modelling and Analysis of development arrangement
 - Existing situation
- Web GIS Application Development
- Satellite Image Processing and Interpretation
- Social Infrastructure Mapping
- GIS, GPS Mapping and Remote Sensing Training

Integration of Space & In-Situ Data for Disaster Risk Reduction





Spatial Catalogue Development

- Established Long Term Collaboration and Partnerships for the Development and Agreement of Geospatial Services
- Development of Infrastructure for Geo-spatial Service Delivery of utility services
- Institutional Capacity Enhancement and Diversification of Geo-spatial Products
- Safeguard Operational Sustainability

Three - Dimensional Modelling Short Video

Model Analysis Of Development Arrangement

Centre for Remote Sensing and Geographic Information Services (CERSGIS)





Mechanism of the Integrated Applications

UStakeholder engagement to enhance the agreement of geospatial data and services **Capacity development for** planners / engineers

Relief and Reconstruction Provisioning of Infrastructural Facilities

Foundation of revenues

Agricultural production reserves.
 Community provision in public works
 Traditional Authorities livelihood
 Academia

- Universities/ Research Institutions
 <u>Regulation</u>
- Improved legislative empowerment

Web GIS Application Development

Satellite

The hardware is the computer and peripherals on which the GIS operates. Today, this could be a centralized computer server running the UNIX or Windows NT operating systems, a desktop PC, or an Apple Macintosh. The computer may operate in isolation or in a networked configuration.

Computers Networks

- Peripheral Devices
- · Printers
- · Plotters
- Digitizers

SOFTWARE

GIS

GIS software provides the functions and tools users need to store, analyze, and display geographical information. The key software

- components are · GIS Software
- Database Software
- OS Software
- Network Software

DATA BANK, WORKSHOPS

One of the most important component of GIS is the data. It is absolutely essential that data be accurate. The following are different data types:

- Vector Data Raster Data Image Data Attribute Data



END USERS

GIS technology is clearly of limited value without people to manage the system and to develop plans for applying it. Users of GIS range from highly qualified technical specialists to planners, foresters, and market analysts who use GIS to help with their everyday work.

- Administrators
- Managers
- GIS Technicians
- Application Experts
- · End Users
- Consumers



Methods are well designed plans and applicationspecific business rules describing how technology is applied. This includes the following:

- Guidelines Specifications
- Standards Procedures

Posterity will require nothing less than resilient communities, and we cannot afford to fail them.

GHANA THANK YOU WELCOME TO NADMO-GHANA

