Big satellite data opportunities, challenges, issues: 

Africa user perspective

Presented by:

Hon. Eric Nana Agyemang-Prempheh

Director General NADMO-GHANA
Content

• Introduction,
• Opportunities,
• Challenges,
• Issues to be considered
What is this?
Why should this happen?
How long will this continue?
Who’s duty to manage this?
Introduction

Big satellite data use in Africa

– Need to monitor climate change and its effects;
  • Droughts,
  • Food security,
  • Landslides
  • Coastline erosion
  • Flush floods

– Infrastructure development & management
  • Increase facilities (e.g. Health, Assistance )
  • Planned response and relief (Spatial data management)

Africa to consider use of space-based technology as a base to address developmental issues.
Opportunities

- Open source satellite data management available for all situations globally (Historical data for Floods and Droughts)
- Accessible processed satellite data (Maps, openstreets maps for navigation)
- Early warnings for distresses (faults zones and landscape, land use and land cover)
- Infrastructure development (urbanization, population schedules)
- Health dangers documentation (pathological infection and its remote treatment)
Challenges

– Knowledge of data expediency & capacity building
– Lack of processing expertise (Administrative)
– Lack of memorandum of understanding to access available & affordable resources (cloud data sources)
– Lack of resources for enactment of big satellite data for decision making.
Issues to be considered

– Government capacity to support satellite data management
  • Effective policy & regulation for decision making
  • Awareness creation for big satellite data suitability

Africa is behind schedule in the use of big satellite data for the management of disasters.
Thank you