



Big satellite data opportunities, challenges, issues: *Africa user perspective*

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Content

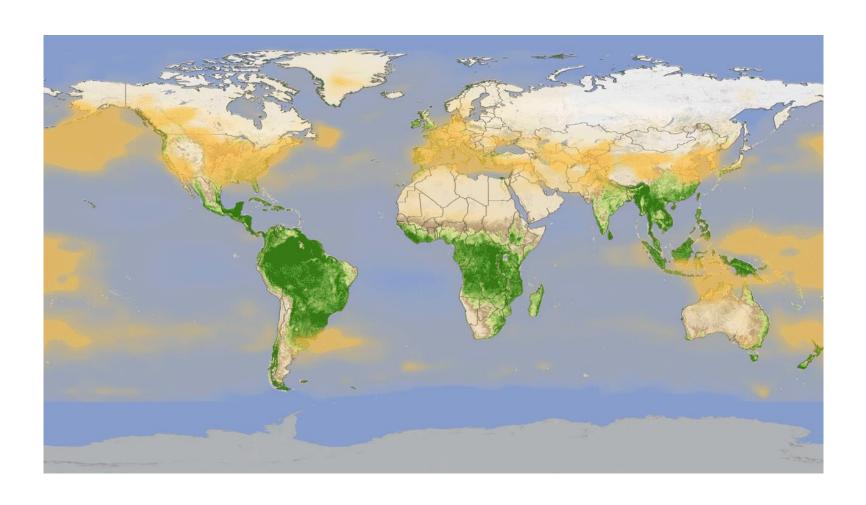


- Introduction,
- Opportunities,
- Challenges,
- Issues to be considered



What is this?

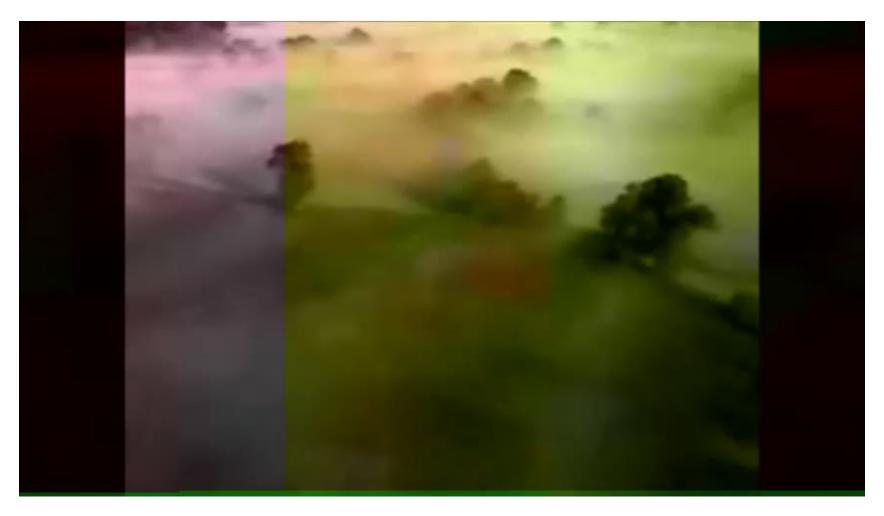






Why should this happen?









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.

FLOODED EXTENT OF WHITE VOLTA (AUG - OCT 2018) From Sentinel-1 Satelite Imagery

