IIII HABITAT IIII UNIVERSITIES

Geospatial Information for Climate Change and Disaster Mitigation

Determining Information Needs

Shuaib Lwasa

Department of Geography Geoinformatics and Climatic Sciences

Makerere University

Email: lwasa_s@caes.mak.ac.ug













Climate Change and Disaster Mitigation



Issues



Largely slowonset disasters











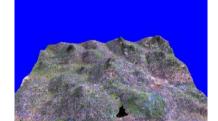
Hydrological

Meteorological

Biological

Rapid-Onset disasters





Disasters and processes leading to the disasters are less systematically monitored



Runaway cities



Lessons learned and gaps





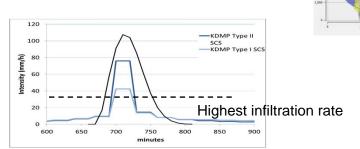


Hydrological scenarios

High temporal resolution weather data



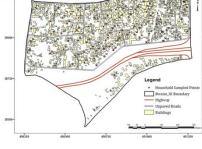




Hydrology data

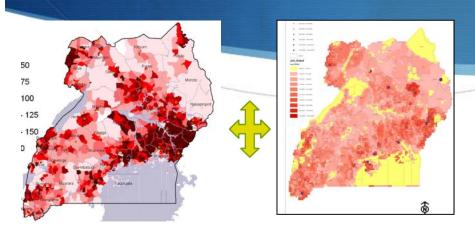


Spatial cascade of disasters





Some Ideas on how to address data gaps

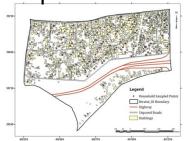


Scenarios, planning for preparedness



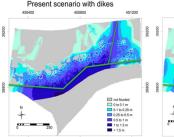
Multi-level system for data

capture

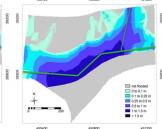


Administrative boundary approach





Grid-based approach



Episodic monitoring of Disasters and Loss Data Peril and Hazard Classification

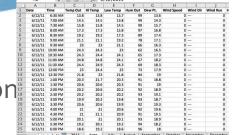






Key Messages

Integrating climate change and disaster into planning



Timely production of credible, easy-to-use information

SAR

 Multiple scales at which geocoded socio-economic information is required

Mixed approach of grid-based and administrative boundary based

Importance of Prediction and Scenarios; improvement of climate

TAR

AR4

models



