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Harnessing Space

Data to Support

Flood Resilience

in Nigeria











Cases of Flood Disaster in Nigeria

Niger State, Nigeria [2021]





Flood disrupted road network in Lagos [2020]

Refugee Camp site in Borno State [2021]



"The yearly flood occurrence in Nigeria causes loss of life and livelihood, damage to infrastructure and even women and children displacement."

2022 Floods Impact in Nigeria

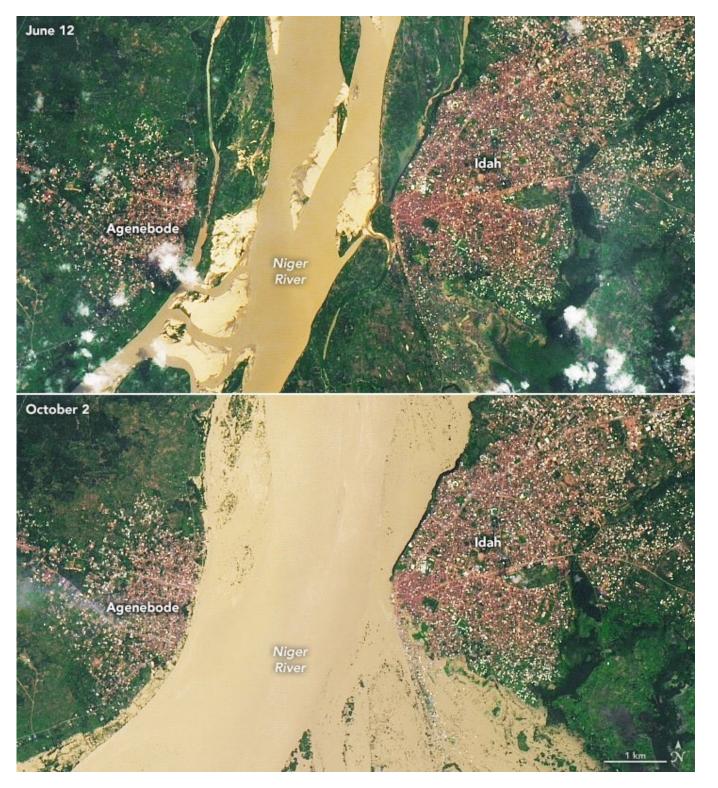


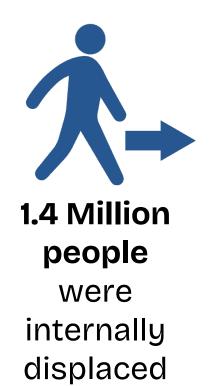
5 MillionPeople were affected



300,000 houses were partially/completely damage

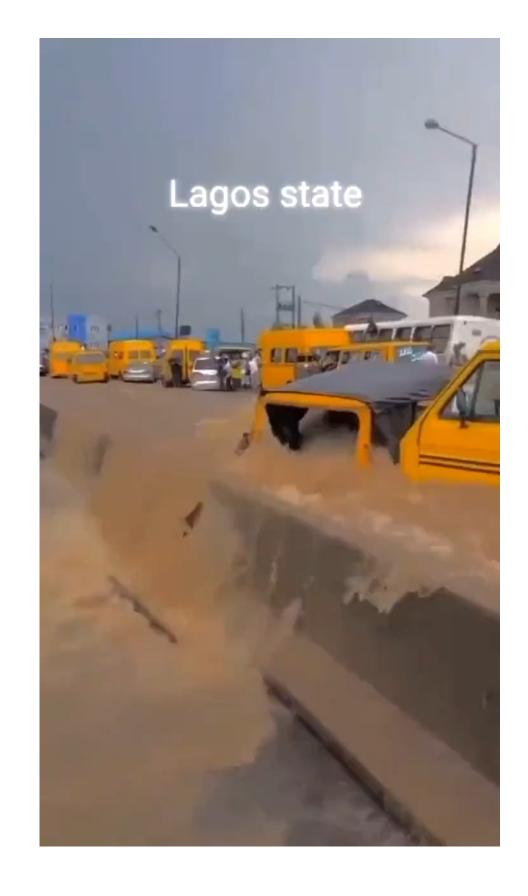








Killed over 603 people



Meanwhile...



Sustainable Development Goals

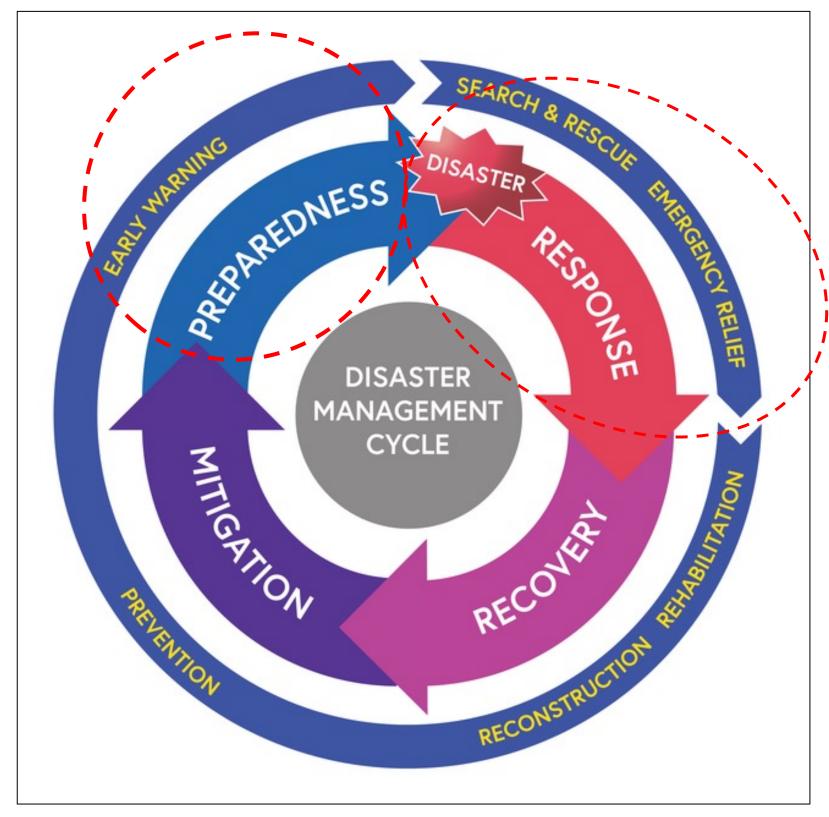


Make cities and human settlements inclusive, safe, resilient and sustainable.

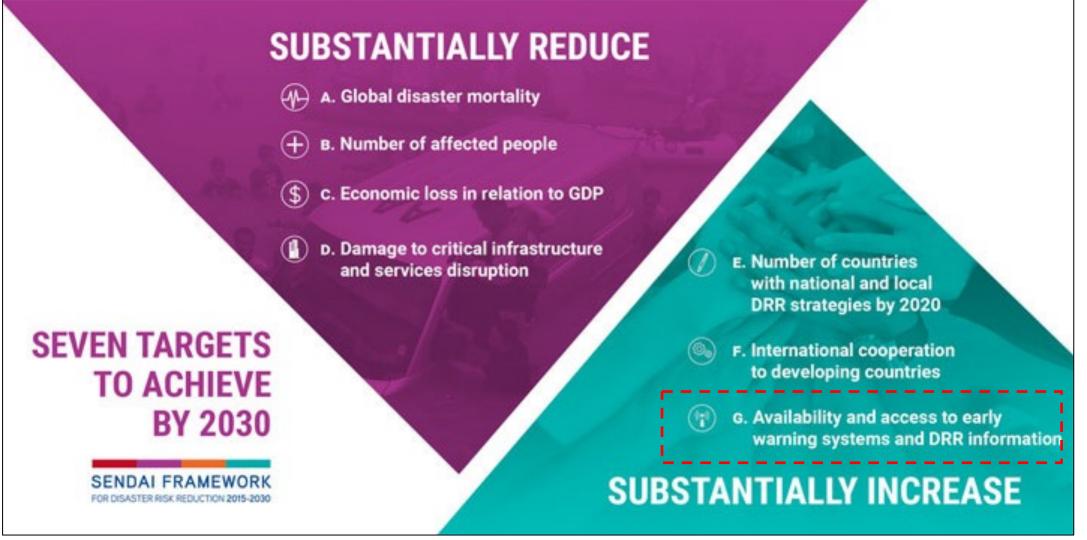


Take urgent action to combat climate change and its impacts.

Also...



Sendai Framework for DRR



Disaster Risk Management

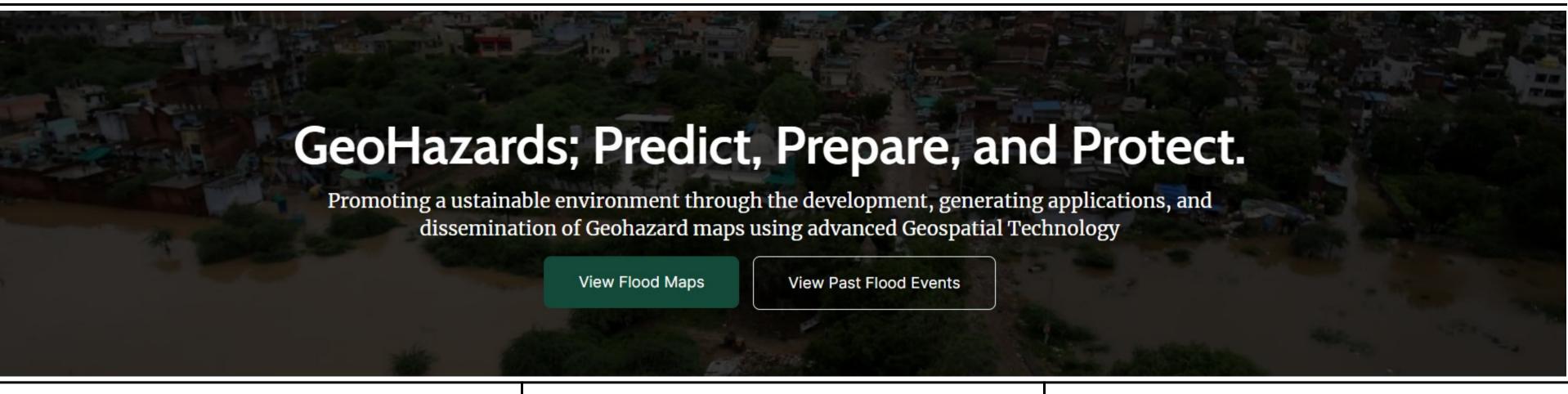
"How can we achieve a flood resilience society?

Earth Observation datasets...







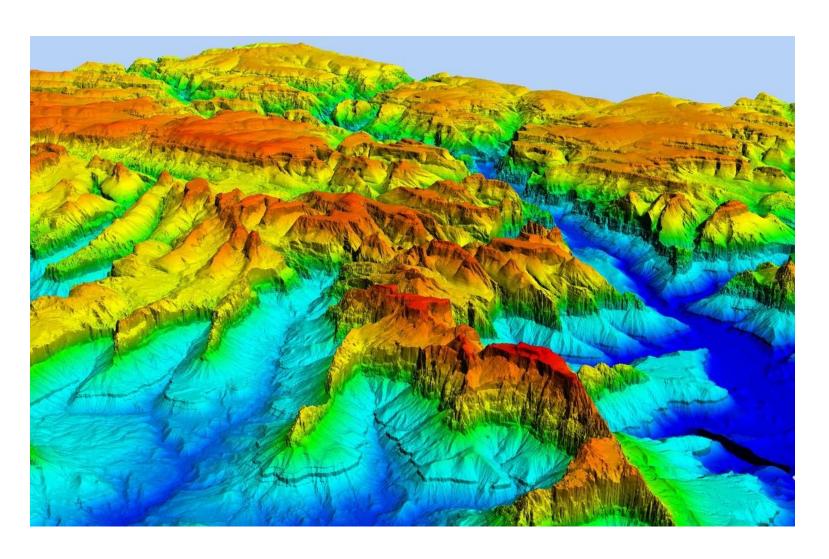


Using GIS, Remote Sensing
Technology and AI to
identify communities,
infrastructure and
population at risk of flood.

Create Post Flood Impact
Maps

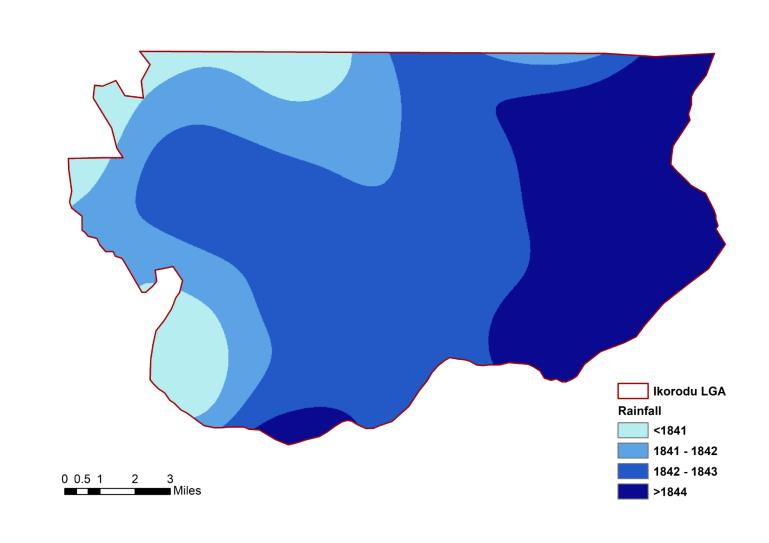
Share the mapping results with various disaster response stakeholders and national emergency institution and community members.

Our datasets are product of Earth Observation Satellites.



Digital Elevation [Terrain]

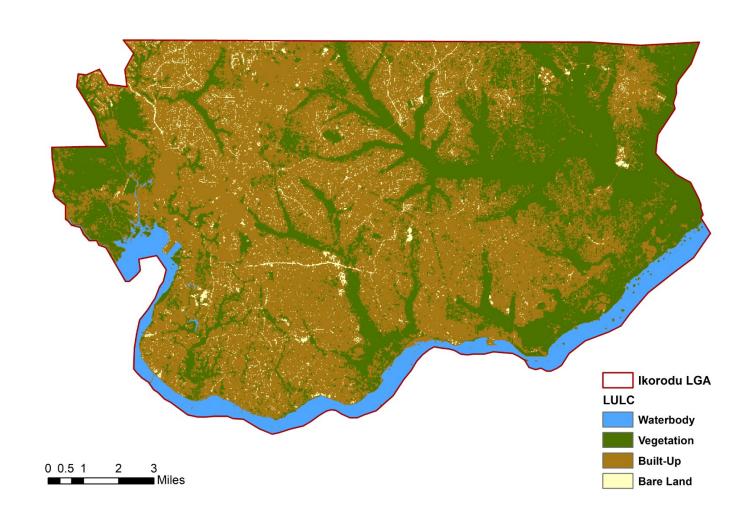
The Digital Elevation data are essential data for creating stream flow/channels and river which are required for our flood model development.



Satellite Derived – Rainfall Data

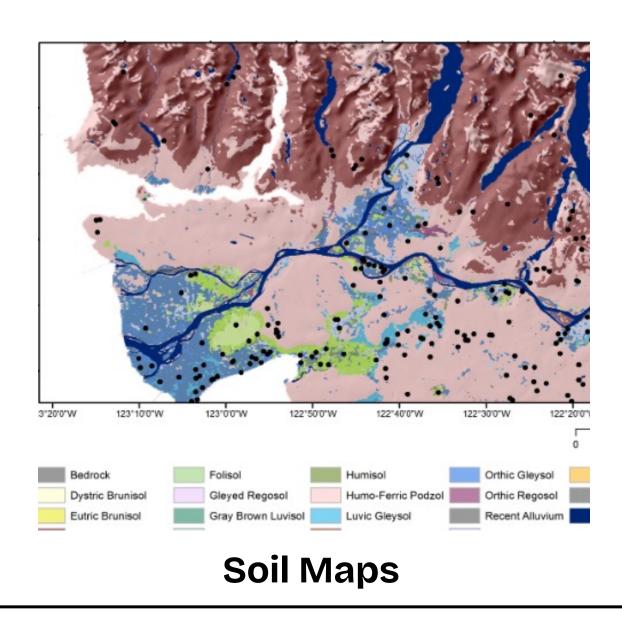
In cases, where are is no insitu (local meteo) rainfall data, satellite derived rainfall datasets e.g CHIRPS and ERA5 has been our run to data; especially time series data.

Our datasets are product of Earth Observation Satellites.



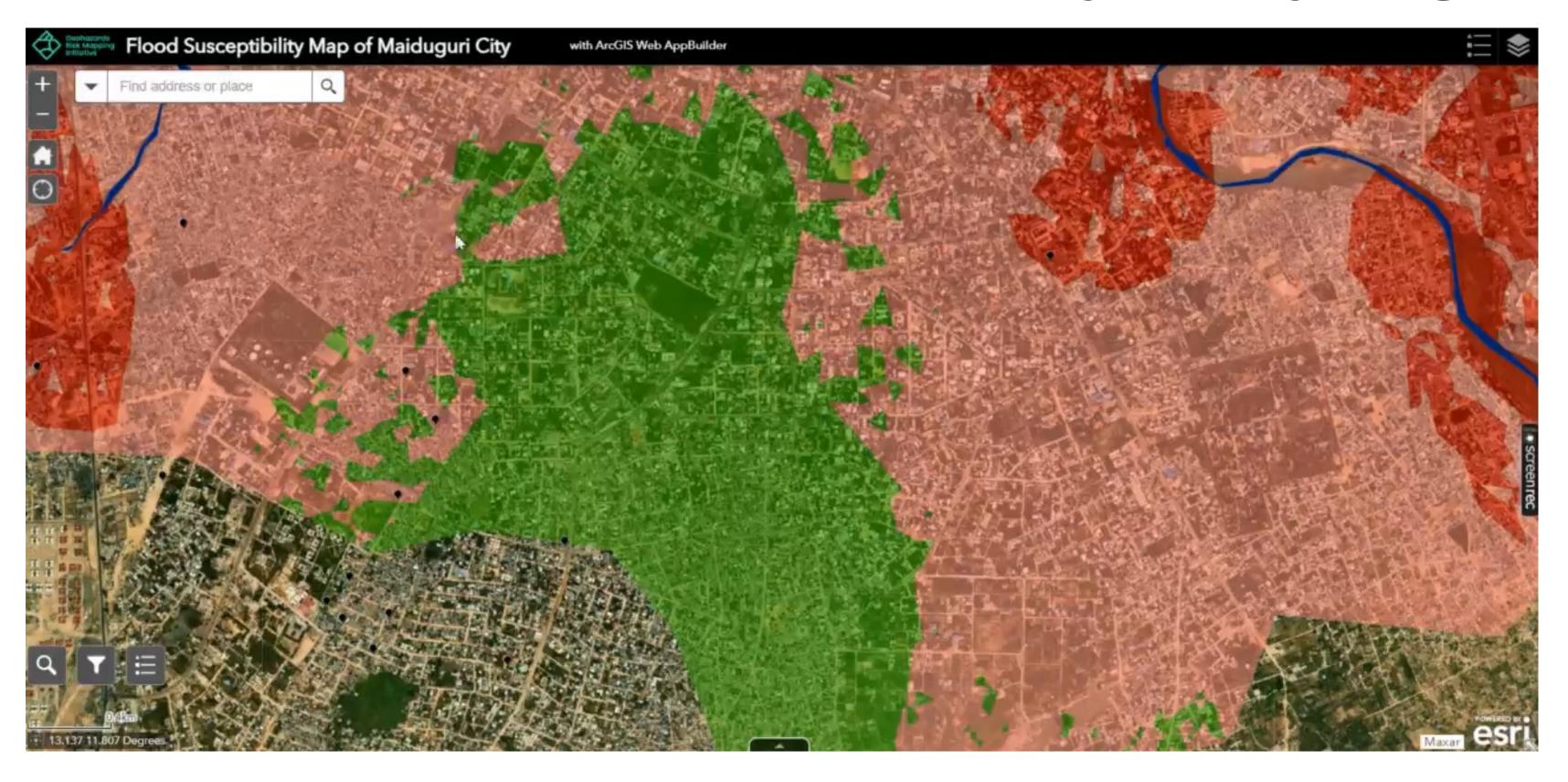
Land Use/Land Cover

Access to satellite derived imagery such as Sentinel 2 (Copernicus Data) has made it easy for us to delineate the landuse types of location of interest.



Satellite derived Soil Maps i.e **Soil Moisture** is also one of the required data for the development of the flood model since different soil type as differ rate of infiltration/permeability.

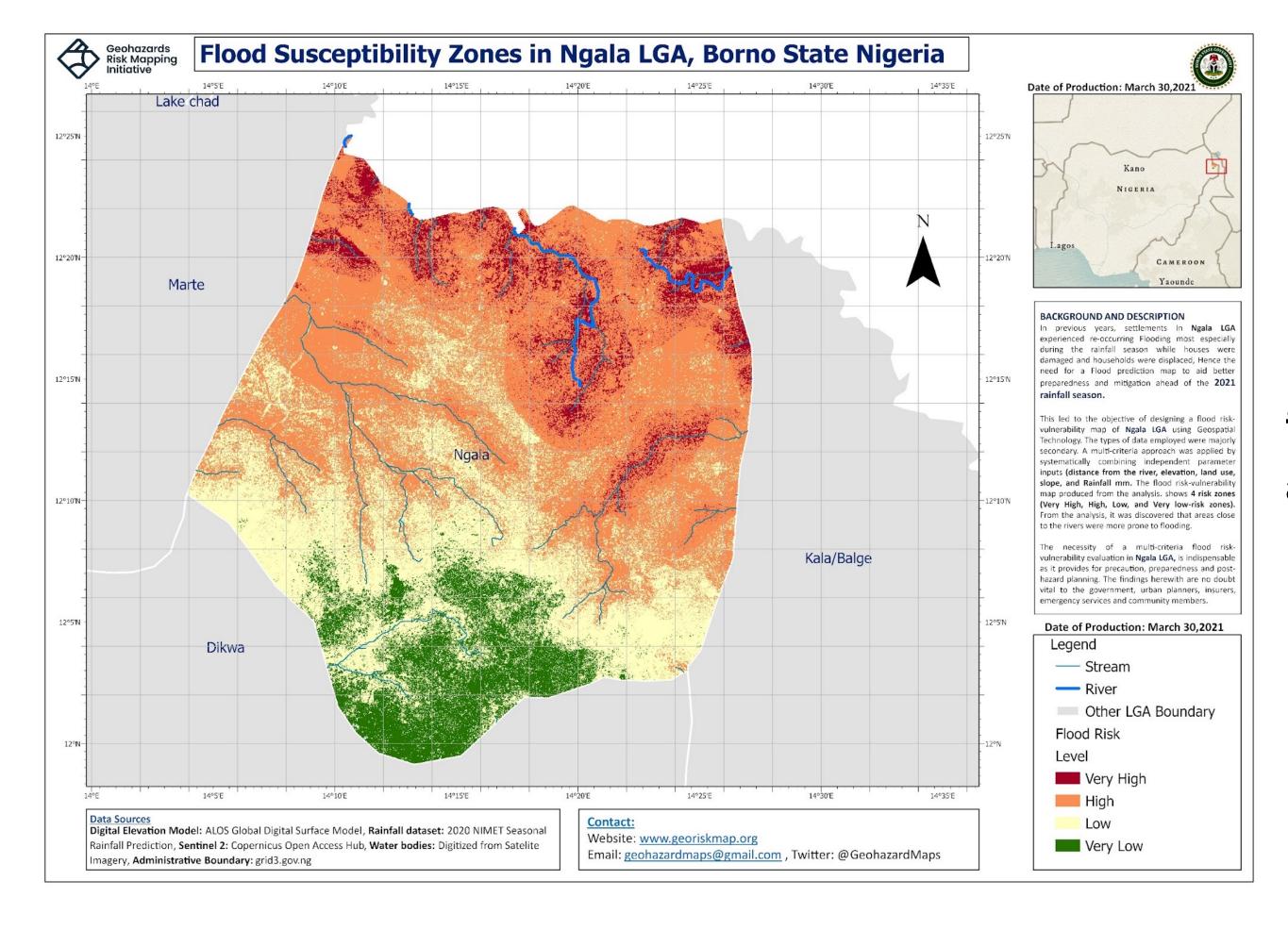
Interactive dashboard Of Flood Susceptibility of a City in Nigeria)



Community members can easily use the Interactive map to search for the location of their houses and access the level of susceptibility to flood.



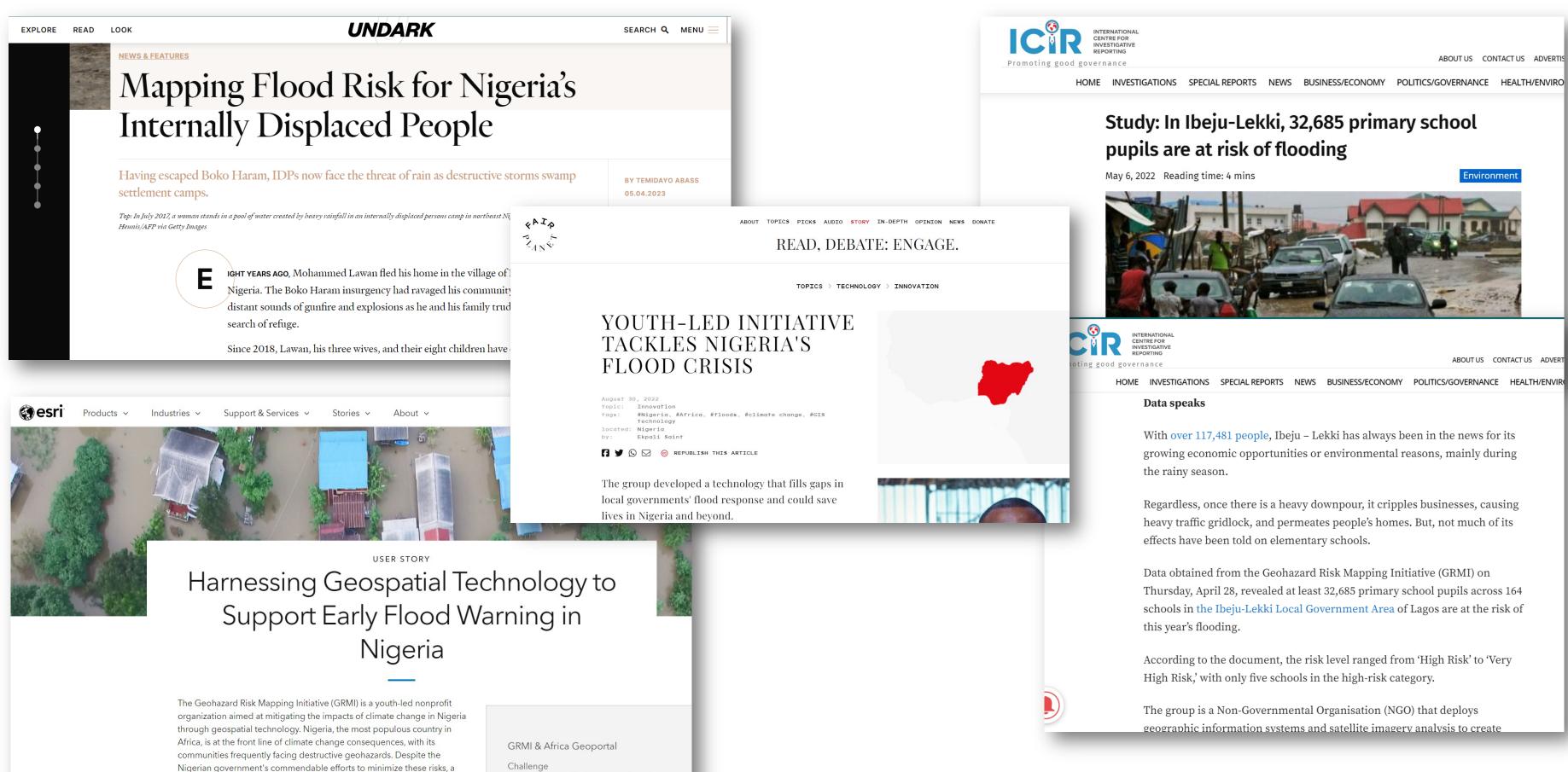
Cartographic Maps



Emergency Institution can create potential flood evacuation zones and flood awareness to the vulnerable houses.

Publications and Reports

significant gap exists in disseminating early warning information and



GRMI wanted to help support Nigerian

Study: In Ibeju-Lekki, 32,685 primary school

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With over 117,481 people, Ibeju - Lekki has always been in the news for its growing economic opportunities or environmental reasons, mainly during

Regardless, once there is a heavy downpour, it cripples businesses, causing heavy traffic gridlock, and permeates people's homes. But, not much of its effects have been told on elementary schools.

Data obtained from the Geohazard Risk Mapping Initiative (GRMI) on Thursday, April 28, revealed at least 32,685 primary school pupils across 164 schools in the Ibeju-Lekki Local Government Area of Lagos are at the risk of

According to the document, the risk level ranged from 'High Risk' to 'Very High Risk,' with only five schools in the high-risk category.

The group is a Non-Governmental Organisation (NGO) that deploys geographic information systems and satellite imagery analysis to create Thank you

