

Navigating Silence, Science and Action: Opening Pathways for Citizen Generated Data for Climate-Resilient Cities

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PURPOSE OF CITIZEN GENERATED DATA



PRINCIPLES OF CITIZEN GENERATED DATA

Openness and
accessibility

Independence

Ethics and
safety

Participation
and Inclusion

Data
sovereignty

Relevance

Data security

Professional
standards

Self-definition
and self-
identification

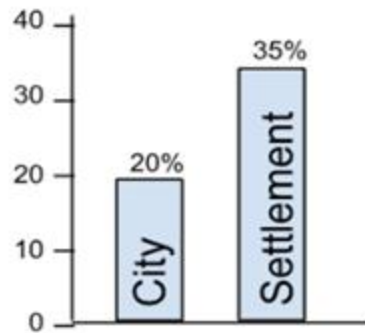
PROMOTING CLIMATE-RESILIENT CITIES AND COMMUNITIES

Exhibit A

A concept for a community data product that compares climate-related indicators within a user-defined community to city characteristics

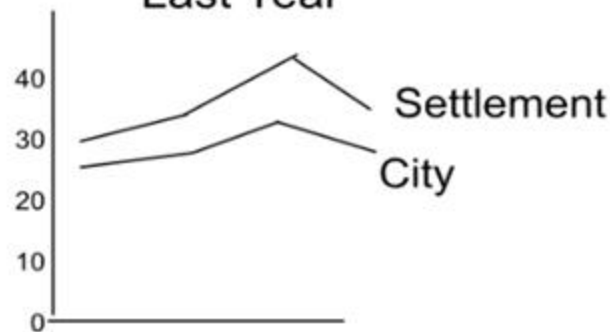
In this settlement:

Area Flood Risk



Source: CIESIN Multihazard model 2000.
Link: <http://sourcelinkhere.org>

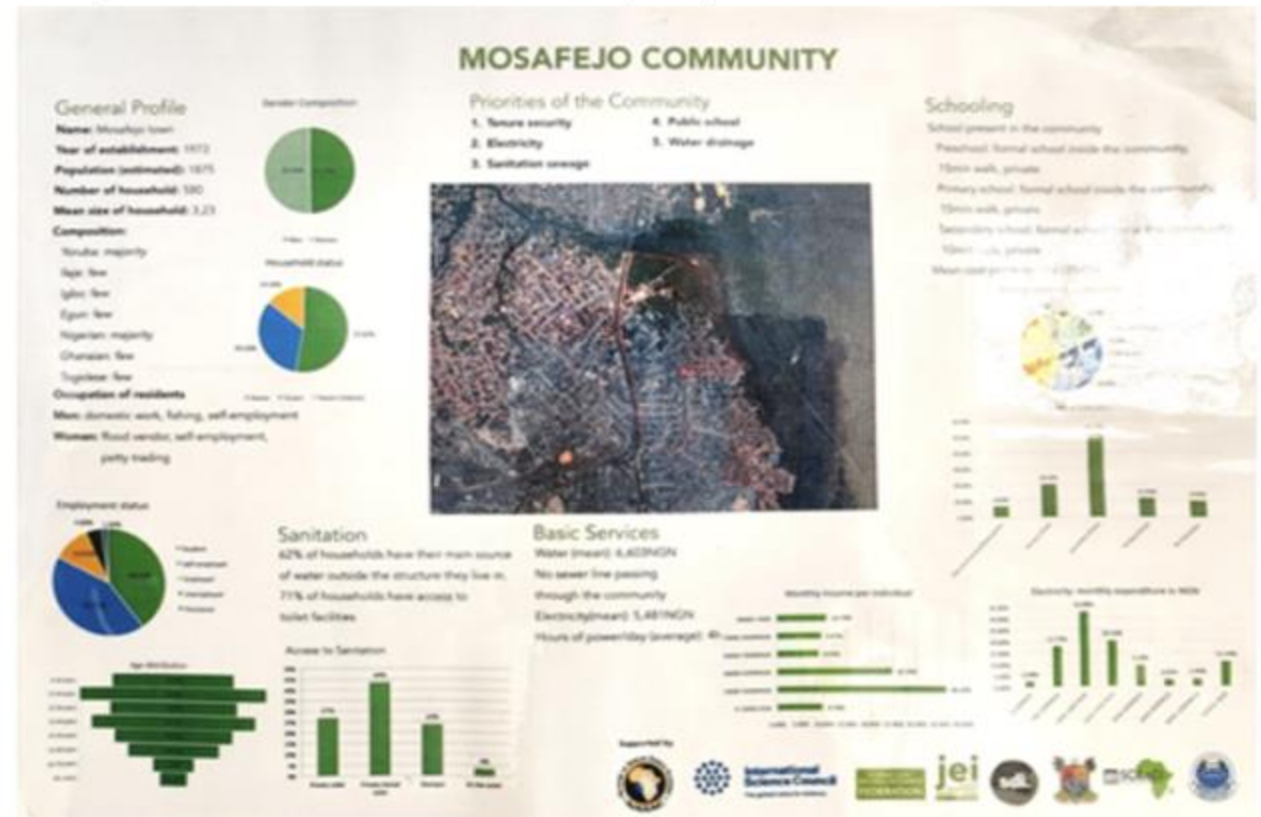
Temperature Last Year



Source: NOAA satellites processed by Princeton Terrestrial Hydrology Group
Link: <http://sourcelinkhere.org>

Exhibit B

An actual community profile poster created, published, and used by community members within the Lagos Nigeria Justice and Empowerment Initiative (JEI)





LAGOS URBAN STUDIES GROUP

STAKEHOLDERS' FORUM

"GREEN INFRASTRUCTURE FOR HEALTH PROMOTION IN INFORMAL URBAN NEIGHBOURHOODS"



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UK Research and Innovation



PLASTICONN on WORLD CLEAN UP DAY



IDEAMAPS ECOSYSTEM

PARTICIPATORY ACTION RESEARCH (PAR) IN OKERUBE - ALIMOSHO

BASEMAP VALIDATION ACTIVITY (VECTOR AND SATELLITE MAPS)

1. INTRODUCTION

The base map activity plays a crucial role in validating the IDEAMAPS Data Ecosystem.

This involves the creation of maps presented in both satellite and vector formats at different zoom levels.

- **Vector Maps:** Vector maps present colourful shapes to represent map features.
- **Satellite Maps:** Satellite images present images of Earth.

2. OBJECTIVES

The objectives of the map activity are:

- Help users locate themselves using maps
- Learn which map features are useful to users
- Compare vector and satellite maps.

LOW ZOOM

The maps cover a large geographic area with few details.



MEDIUM ZOOM

The maps cover geographical areas somewhere in between low and high zoom showing more details than low zoom but less than high zoom



HIGH ZOOM

The maps cover a smaller geographical area showing more features



4. ACTIVITY QUESTIONS

- Can you locate where you are on the maps?
- Which features of the map did you find most useful?
- What was/was not useful about the satellite maps?
- What was/was not useful about the vector maps?
- How will you improve these maps?

5. NEXT STEPS

The maps were intentionally presented in screenshot form to collect feedback. These insights will directly inform the refinement of the web platform that is being developed.

Additionally, this valuable feedback will be documented in the learning histories, contributing to the overall enhancement of the project activities.



Utilization of Heat Early Warning Resources Within Slum Communities in Nigeria

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Green infrastructure and well-being nexus within slums: a Lagos case

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Citizen Generated Data and SDGs in Africa

SDG	SDG Target/Indicator	Project Highlights (Country)	Impact Focus	Challenges/Gaps
11 SUSTAINABLE CITIES AND COMMUNITIES 	11.5 • 11.6 – Reduce hazard impacts & environmental footprint	<i>Nairobi River Data (Kenya)</i> : Monitors pollutants. <i>Nigeria Slum Federation (Nigeria)</i> : Maps informal settlements. <i>Bridge Shakers Youth (Kenya)</i> : Air-quality monitoring in Korogocho. <i>UrbanBetter</i> – Air-quality monitoring in Lagos, Accra, & Nairobi	Improves city planning, pollution awareness, environmental data use and advocacy	Weak data validation; sustaining youth engagement.
6 CLEAN WATER AND SANITATION 	6.1 • 6.3 / 6.3.2 – Safe water & pollution reduction	<i>DonateWater (Nigeria)</i> : Maps rural water points. <i>WADABA (Cameroon)</i> : Real-time water-quality monitoring. <i>Hennops River Revival (South Africa)</i> : Citizen monitoring of water pollution. <i>Upskilling Citizen Scientists (South Africa)</i> : Maps pollution hotspots.	Strengthens community water governance, quality assurance & SDG 6.3.2 data.	Data integration with NSOs; long-term funding.
13 CLIMATE ACTION 	5.6 – Reproductive health & rights	<i>Life Equity Project (Nigeria)</i> : Data on HIV testing barriers among adolescents.	Informs gender-responsive health policy and access to care.	Gender data underrepresented in SDG reporting.
5 GENDER EQUALITY 	13.2 – Integrate climate measures into policy	<i>Mageuzi ya Maarifa (Tanzania)</i> : Digital citizen science for forest & climate governance.	Promotes inclusive climate governance and forest protection.	Limited institutional uptake of local data.
15 LIFE ON LAND 	15.2 – End deforestation & restore degraded forests	<i>Marsabit Forest Youth (Kenya)</i> : Youth-led forest restoration & data collection.	Supports biodiversity, sustainability & youth inclusion.	Resource and coordination constraints.

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THANK YOU FOR LISTENING

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