GLOBAL KNOWLEDGE EXCHANGE ON URBAN CLIMATE RISK



Event Knowledge Kit

Knowledge Kit Content



- Background
- Presentation: Impacts of extreme weather on water and sanitation services
- Presentation: Beyond Slum Upgrading, Dignifying Family's Livelihood
- Presentation: Mukuru Special Planning Area
- O Presentation: Évaluer les risques dans les zones informelles
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Speakers:

- Sara Márquez Martín, Coordinator,
 Maputo Arquitectura sin Fronteras
- Gerard Olivier Rakotomanana Ministry of Territorial Planning and Land Services
- Carmen Sing Sang, Project Manager for Beira,
 Mozambique at Water and Sanitation for the Urban
 Poor
- Patrick Njoroge Program Manager, Akiba Mashinani
 Trust
- Lucky Andrianirina, Climate Change Consultant. In Antananarivo
- Leon Kapetas, Lead for Programs and Climate
 Resilience for the Resilient Cities Network in Europe
 and Middle East
- Anaïs-Marie De Keijser, Urban Development and Climate Adaptation Expert, SWECO Group – Architecture and Engineering Consultancy.
- Christopher Chung, Global Centre on Adaptation,
 Water & Urban, Senior Urban Specialist

Background



As the need to understand urban climate vulnerabilities increases, the uptake of climate risk assessments among urban planners, city managers, and development professionals is growing and spreading across the world. Given the proliferation of different assessment approaches, there is ample opportunity to share best practices and advice on overcoming commonly encountered challenges among city leaders and practitioners to promote effectiveness, efficiencies, and applications of findings. The event brought together local implementers that have participated in the Rapid Climate Risk Assessment (RCRA) process, city officials interested in learning about the RCRA process, Global Center on Adaptation colleagues and consultant firms that carried out the RCRAs, Members of the Resilient Cities Network and other risk assessment practitioners. The outcomes were:

- Enhanced insights, through peer learning, into the benefits, challenges, and opportunities of Rapid Climate Risk Assessments
- Strengthened knowledge of conducting climate risk assessments in cities where data is often scarce and there is a large informal sector
- Increased awareness and knowledge of climate adaptation challenges and ambitions in African cities
- Increased insight on how cities are utilizing risk assessments to drive implementation of climate adaptation solutions locally

Watch the recordings here.



Impacts of extreme weather on water and sanitation services

Cyclone Idai in Beira, Mozambique

Presented by Carmen Sing Sang

13th February 2023







Climate changes impact on clean water and safe sanitation

Immediate impacts

- Water system out of action for at least a week, compounded by loss of power. Parts of system seriously damaged.
- Drainage and sewer system overwhelmed raw sewage mixed with floodwater caused public health risk

Longer term response

- Lack of disaster response strategy from institutions responsible for water and sanitation
- Highlighted vulnerability of water network, and lack of safely managed sanitation for 90% of population
- Drainage a critical issue importance of improved solid waste management

How to improve?

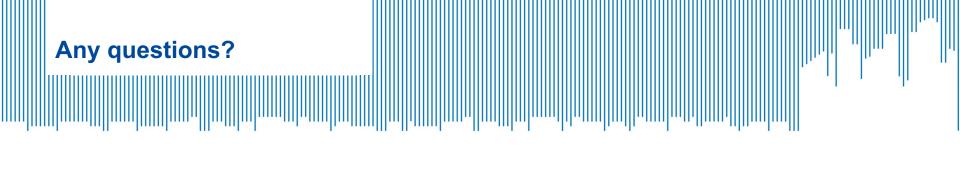
- 1. Beira sanitation authority now looking beyond the sewer network need on investments over awareness and infrastructures improvements.
- toilets, septic tanks etc that can withstand flooding risk.
- 2. Need for improved citywide sanitation waste collection services to reduce public health risk when areas do flood.
- 3. Not just about WASH importance of solid waste management.
- 4. Better constructions standards for all public services.
- 5. Definition of strategic responses for natural disasters.



What have we been doing?

Immediate actions

- Financial and technical assistance to water and sanitation local authorities and stakeholders on recovering from the storm.
- Technical assistance to both water and sanitation authorities on improving the construction features of their assets on expansion projects.
- Financial support to the public services on being technically better prepared for project planning considering climate change.
- Support on creating a strong partnership in between stakeholders.



OBRIGADO!

THANK YOU!







Beyond Slum Upgrading, Dignifying Family's Livelihood

























geographical & social context



Africa



Mozambique 189 HDI **PIB \$447**



Maputo, Chamanculo C

Peri-urban Neighbourhood Selfbuilt - Informal with no sewage system Human Settlement.

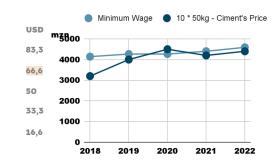


Young & Unemployed or with informal economic activities population

15.695 hab/km²

3.327

minimum wage - cost of cement











solution

2016 people-street focused

2022 urban planning

public Lighting





Traditional Ceremonies



dignified funeral ceremonies





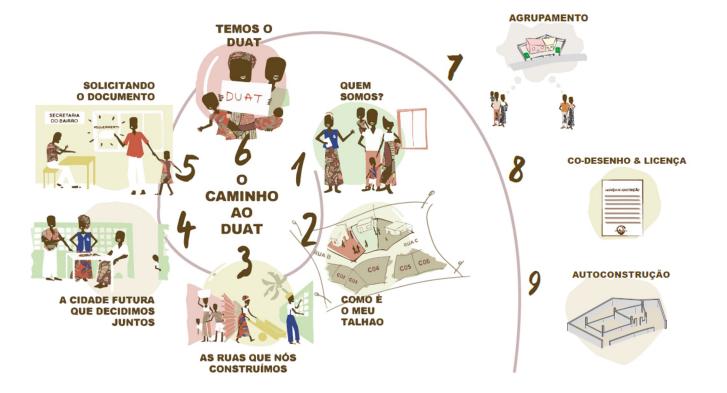
HABITAT CHAMANCULO C PROJECT- MAPUTO, MOZAMBIQUE 2022

20162022solution

Access to DUAT, housing & infraestructura METHOD



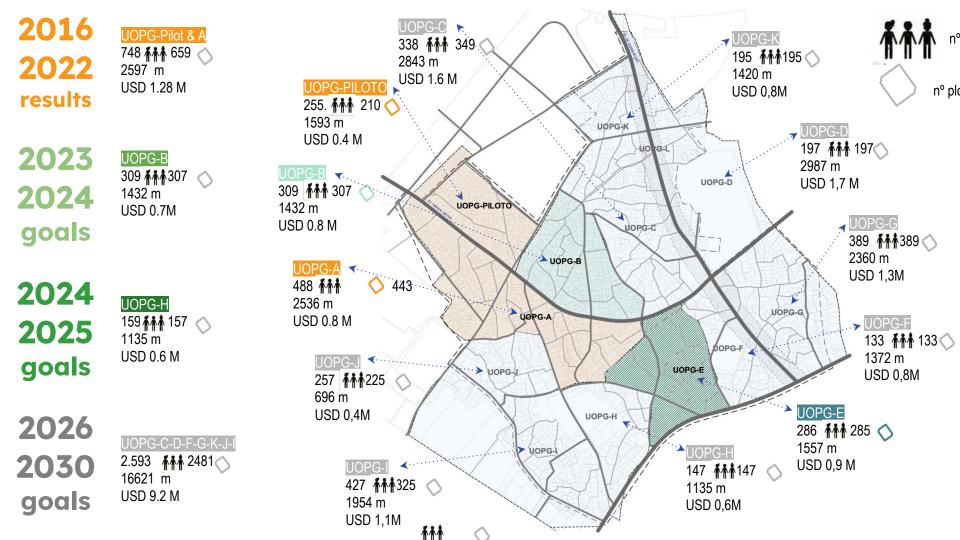






27th of August 2022

The Detail Plan PPARC was approved including this method





MUKURU SPECIAL PLANNING AREA

PRESENTATION BY: PATRICK NJOROGE



Mukuru Settlements & Villages Paradise C Paradise A Lunga Lunga Rd Sinai B/Kwa Reli Sinai A Jamaica Lunga - lunga Donholm Riverside Diamond Uchumi Kosovo Wesinya Feed the Children Gatoto Railway Mukuru Kwa Njenga Wape Wape Milimani Simba Cool Gateway Zone 48 Legend Moto Moto Mukuru Villages Viwandani Mukuru Kwa Njenga River Mukuru Kwa Reuben Coordinate System: GCS WGS 1984 Datum: WGS 1984 Units: Degree Meters

Mukuru Land

Area: 689 Acres
Population: 402,224
Households: 100,561
3 Settlements:
Mukuru kwa
Njenga, kwa Ruben
and Viwandani
sitting on both
private and public
land





Declaration of SPA & Consortia

Clustered into 8 Thematic Areas

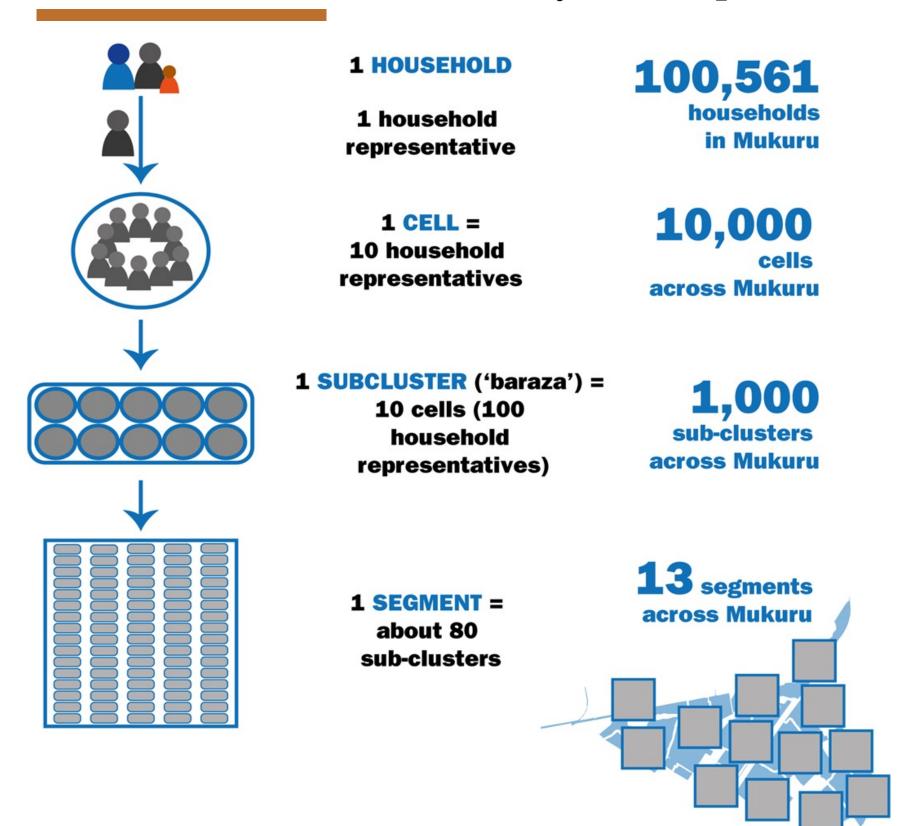
 41 Local and International organizations (civil society, academia and private Sector)

Approaches:

- Integrated Planning
- Multidisciplinary
- Participatory

Mukuru SPA

Structure of the Community Participation Process



117

Direct Community Consultations Meetings

250+

Baraza's & Community Preparatory meetings



















THANK YOU



Related Links



- OAntananarivo, Madagascar Rapid Climate Risk Assessment
- GCA's City Adaptation Accelerator
- GCA blog: Assessing Climate Risk for Resilience Planning: Five Lessons from African Cities
- Post-event Insights Report
- Event Recordings

Stay Connected



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Online space for articles and case studies, access content posted by others	Register for events or watch event recordings	Connect deeper and more informally with the other members with to share questions, resources & opportunities	Subscribe to the newsletter GCA Adaptation Update and the Water Adaptation Community Newsletter
https://communities.adaptationportal.gc a.org/	https://gca.org/gca-events/	https://www.linkedin.com/groups/14 262070/	https://gca.us7.list- manage.com/subscribe?u=6dfa0ea9 42c9f12e85f30d962&id=70f1cb250c

