

**Shanghai Expo 2010 “Better Cities, Better World”
Forum on Disaster Risk Reduction
Working Group 2: Tools and Good Practices**

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Based on points 6 and 9 (Essentials for Making Cities Resilient)

**Tools for sustainable urban development
and to deal with climate change at Maputo City,
Mozambique**

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**CONSELHO MUNICIPAL DE
MAPUTO**



OBJECTIVE

To present the tools which are being implemented by Maputo Municipal Council (MMC) to manage the urban development based on sustainability principles.

STRUCTURE

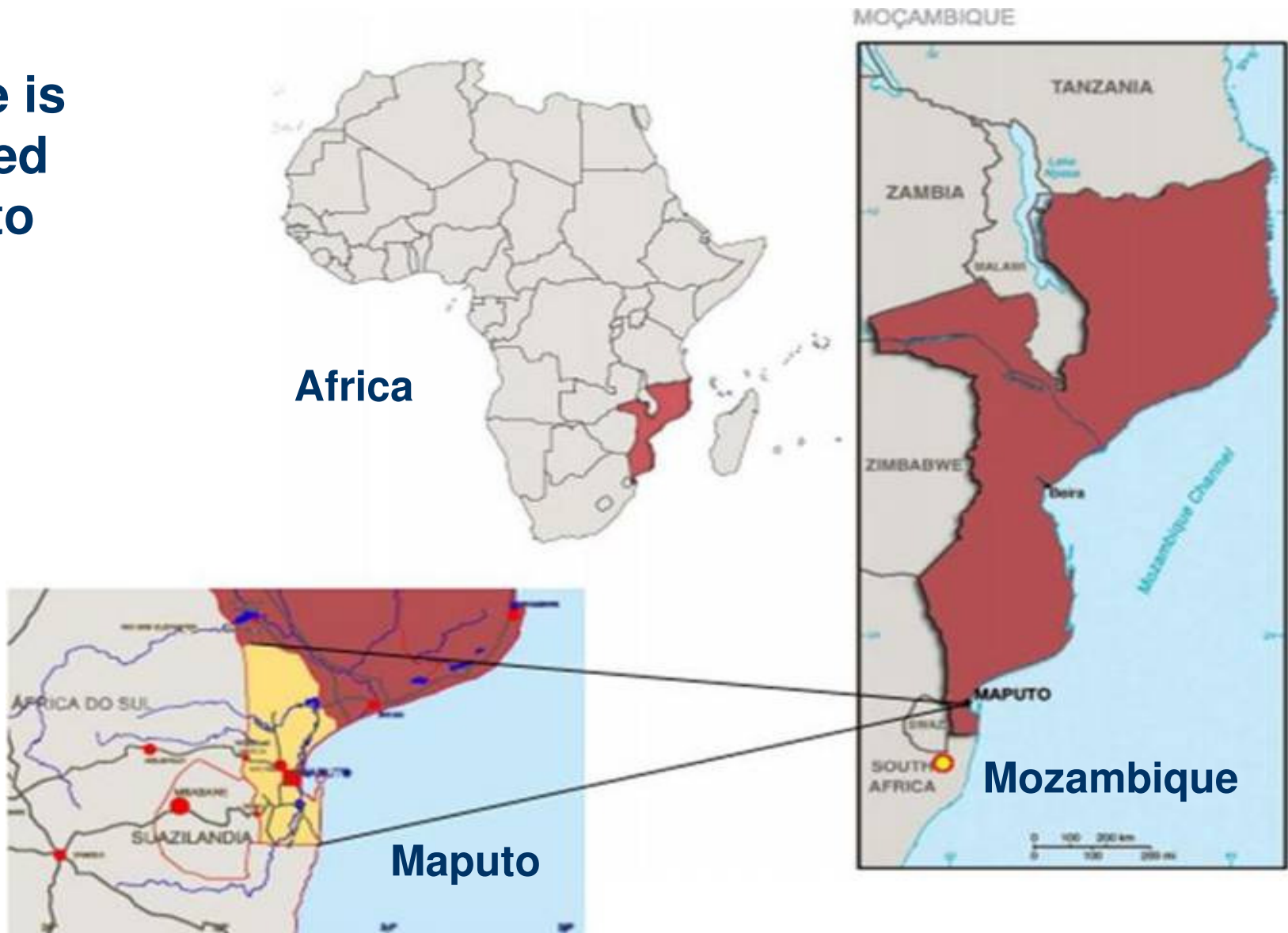
- 1 Context
- 2 Vulnerability of Maputo City to Climate Change
- 3 Tools to face with Climate Change related impacts
- 4 Conclusions



1

Context

Where is Located Maputo





1

Context



- ✓ Maputo, the capital of Mozambique, is the most densely populated urban area in the country.
- ✓ It contributes over 30% of the national Gross Domestic Product.
- ✓ Is the gateway for investors, tourists and migrants.





1

Context

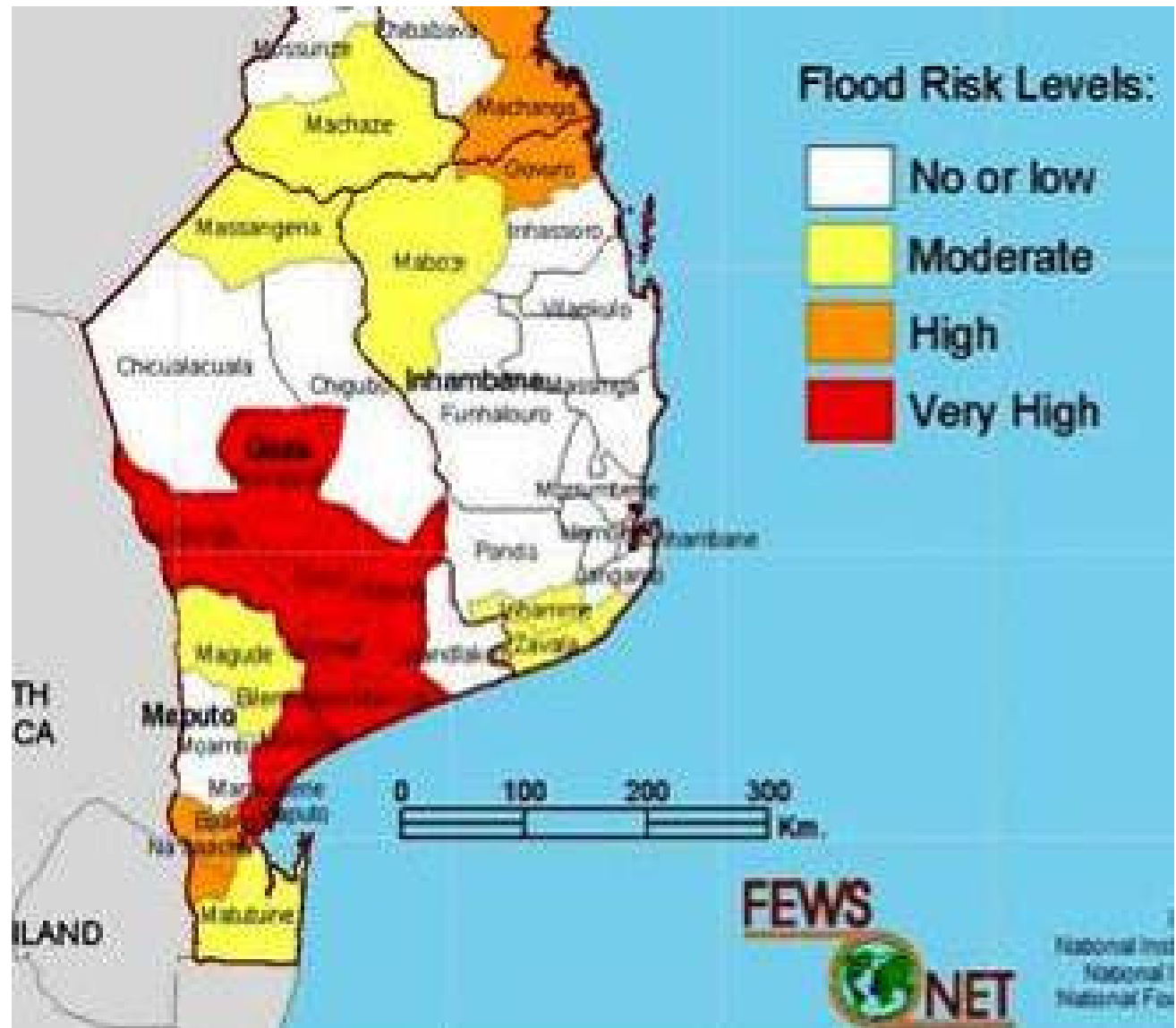


✓ Maputo has a land area of 308 Km² and about 1.1 million inhabitants distributed by its 7 Municipal Districts (Census 2007).





Since its facing the Indian Ocean (pathway of cyclones), the city of Maputo is **highly vulnerable** to the effects of climate change (causing impacts such floods, sea-level rise, coastal erosion)





2

Vulnerability of Maputo City to Climate Change



75% (800,000 inhabitants) live in informal settlements with slum characteristics:

- ✓ dense unregulated growth;
- ✓ lack of common infrastructure services (water, electricity etc.);
- ✓ homes made of precarious materials;
- ✓ **often built on unsuitable land (risk of flooding and erosion).**

CLASSIFICAÇÃO



PLANIFICADO (OCUPAÇÃO
ORDENADA/ NÃO REGULARIZADA)



NÃO PLANIFICADO (OCUPAÇÃO
ESPONTÂNEA/ DESORDENADA)







The efforts of MMC towards to a better and equitable city are based upon some principles:

- ✓ Focus on sustainability;
- ✓ A comprehensive and integrated perspective of the urban environment;
- ✓ The importance of public participation;
- ✓ The recognition and appreciation of traditions and knowledge of the local community;
- ✓ The investments should aim at improving the quality of life of citizens and protection of biodiversity and ecosystems;
- ✓ The priority given to systems that prevent the degradation of the environment;
- ✓ The importance of national and international cooperation.



Main Maputo Municipal tools:

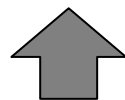
- ✓ **Municipal Development Program (ProMaputo);**
- ✓ **City Master Plan (PEUMM);**
- ✓ **Municipal Strategy and Action Plan for Integrated Intervention at Informal Settlements;**
- ✓ **Cities and Climate Change Implementing Plan for Maputo City.**



ProMaputo: Municipal Development Program (2007-2016)

Main Objective

To increase the coverage and quality of municipal services



Metropolitan
Development

Urban Planning

Urban Infrastructure

Components

Institutional Development &
Municipal Governance

Financial Sustainability



The **Urban Planning** Component of ProMaputo includes the following items:

- ✓ Land-use plans for environmentally sensitive areas including coastal and high-erosion zones;
- ✓ Zoning plans to locate preferred areas for commercial, industrial, and agricultural uses;
- ✓ Implementation of the Municipal Geographic Information System under the support of technologies such as GIS, aerial photography, single multi-purpose cadastre and digital maps;
- ✓ Development, field testing, and implementation of an integrated methodology for improvement of informal settlements in several selected neighbourhoods;
- ✓ Regularization of land tenure and land titling in peri-urban areas.



City Master Plan considered the following main options:

- ✓ **Re-qualify informal settlements;**
- ✓ Improve access to all areas and to the city centre and to the routes leading to the rest of the region and neighbouring countries;
- ✓ **Ensure an ecological balance and quality of the environment;**
- ✓ Create new economic and social, cultural, recreational and administrative center of activities;
- ✓ Density urban spatial occupation in Maputo;
- ✓ **Develop urban infrastructures and services;**
- ✓ Keep the preservation of the quality of monuments and the cultural and historic heritage that enrich and embody the city's collective memory.



City Master Plan –Land use plan





City Master Plan –conditionants plan



LEGENDA

-  Vias Primárias
-  Limite do Município
-  Limite do Distrito Municipal
-  Ferrovia
-  Área Histórica Classificada - Chamanculo
-  Área Histórica Classificada - Baixa
-  Património Edificado
-  Área de Agro-Pecuária
-  Área Húmida e Inundável
-  Área Alagável e Susceptível a Inundações
-  Verde Arborizado Natural (Mato)
-  Verde Urbano de Parques e Jardins
-  Verde Arborizado de Protecção
-  Área de Usos Especiais
-  Faixa da Orla Marítima (medida da linha máxima de praia mar até 100 metros para o interior do território - ART.8 Lei 9/97)
-  Servidões do Aeroporto



Municipal Strategy and Action Plan for Integrated Intervention at Informal Settlements

Designed considering 3 axes:

- ✓ **Neighbourhood improvement;**
- ✓ **Regularization of land tenure and land titling;**
- ✓ **Risk areas interventions.**

The upgrading of informal settlements comprises regularization, reorganization and registration procedures in the neighbourhoods. It requires civil works for road improvements, sanitary facilities, public lighting and drainage as well as a participatory approach in case of voluntary reorganization of plot boundaries.





Cities and Climate Change Implementing Plan for Maputo

In April 2010, UN-HABITAT and MMC signed an Agreement of Cooperation from which has been developed and adopted an **Implementing Plan** which basically intends:

- ✓ **Perform a specific and detailed study on the socio-economic impacts of climate change in the city of Maputo focusing on vulnerable areas;**
- ✓ **Develop a Local Climate Change Adaptation/Mitigation Plan;**
- ✓ **Execute demonstrative CC adaptation/mitigation interventions at priorities urban areas and settlements of Maputo City;**
- ✓ **Create of a database related to climate change events;**
- ✓ **Implement a capacity process of MMC human resources in matters related to climate change in urban areas.**



Challenges

- ✓ Ensure the proper institutional capacity building;
- ✓ Get the approval of Phase II of ProMaputo and to develop the Climate Change Adaptation/Mitigation Plan in order to extend the search for additional credit funds;
- ✓ Increase accountability and responsiveness to municipal citizens;
- ✓ Fully implement the new City Master Plan;
- ✓ Integrate informal settlements in the formal city, through a participatory and integrated development approach;
- ✓ Support the community empowerment;
- ✓ Strengthen the coordination among key public sector actors and partners;
- ✓ Ensure the sustainability of the interventions.



KANIMANBO!

OBRIGADO!

THANK YOU!