



# STRATEGIC PROGRAM FOR CLIMATE RESILIENCE MOZAMBIQUE

## *BUILDING RESILIENCE OF THE MOZAMBIQUE ECONOMY AND LOCAL COMMUNITIES*

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Climate Investment Funds | Partnership Forum

# PRESENTATION OUTLINE

2

**1 Background to Climate Variability & Change**

**2 Government Policy**

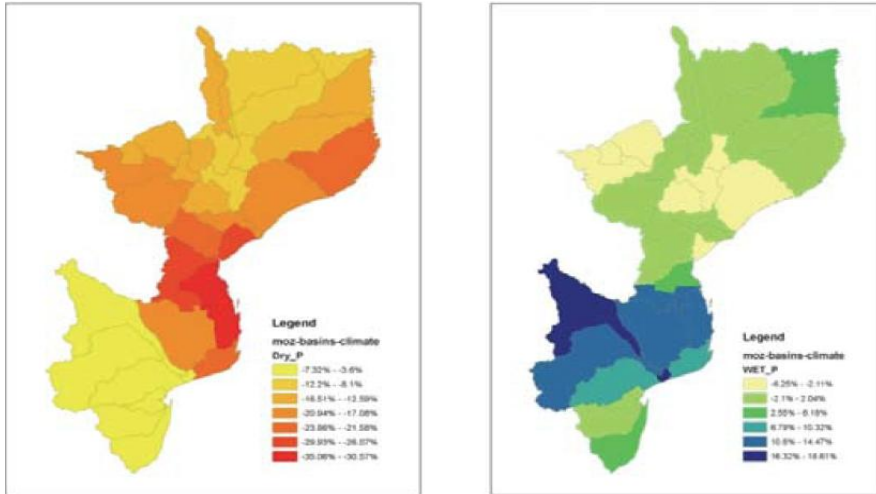
**3 The SPCR**

**4 Results**

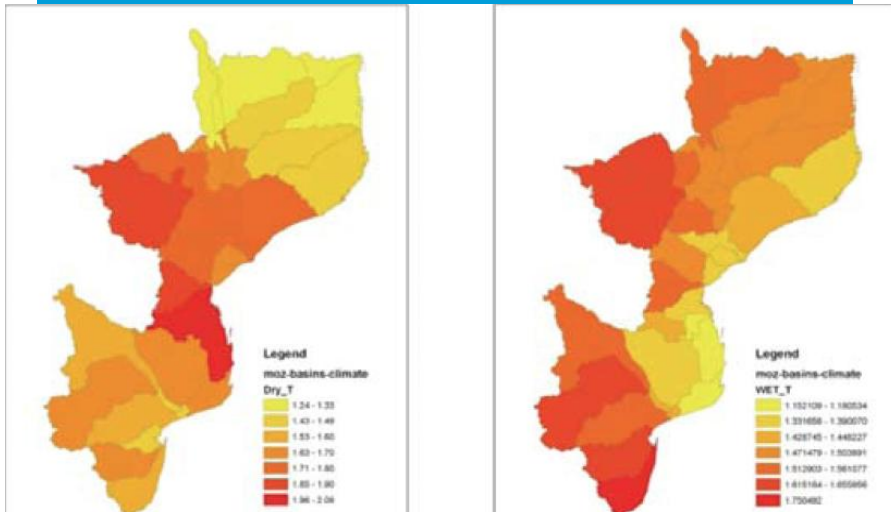
**5 Next Steps**

# BACKGROUND OF CLIMATE VARIABILITY AND CHANGE

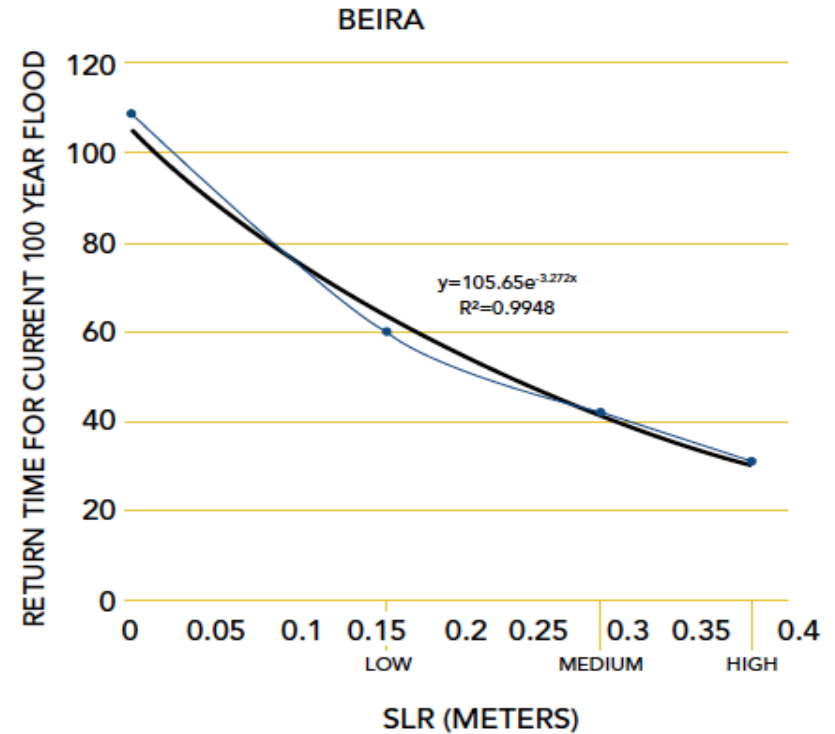
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"Dry" and "Wet" Scenarios for Precipitation in 2050



"Dry" and "Wet" Scenarios for Temperature in 2050

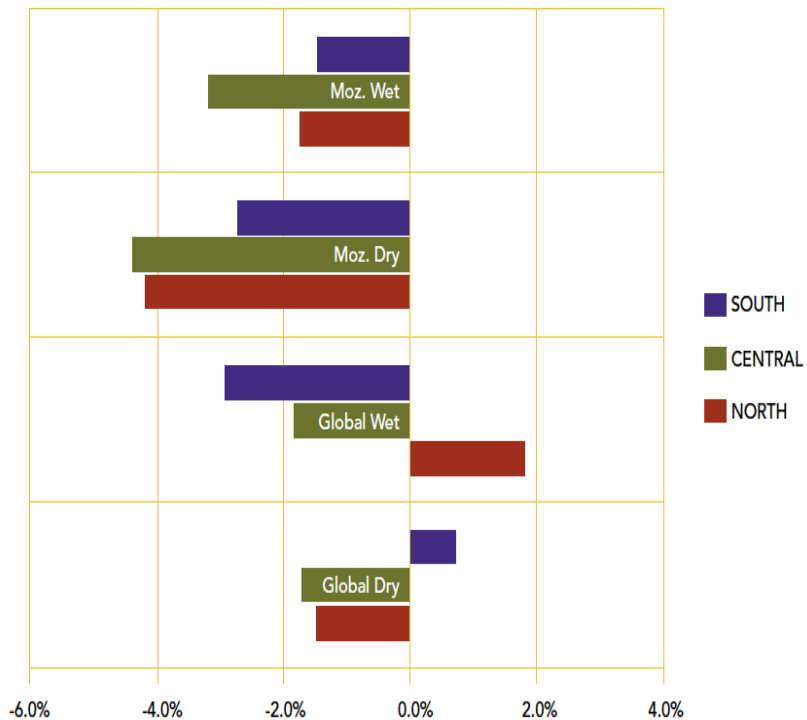


Estimate change in effective return time for the 100-year storm surge as a result of Sea Level Rise (SLR) for Beira

# CLIMATE VARIABILITY AND CHANGE: IMPACTS AND IMPLICATIONS

## Climate Change Effects on Yields

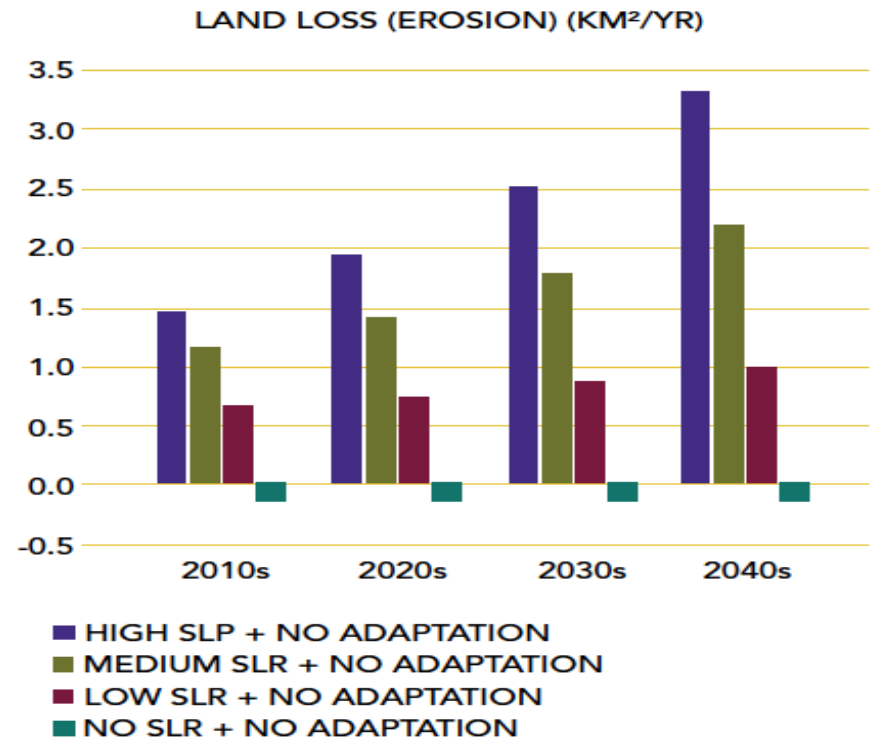
**1.5% Agricultural GDP loss by 2040-2050**



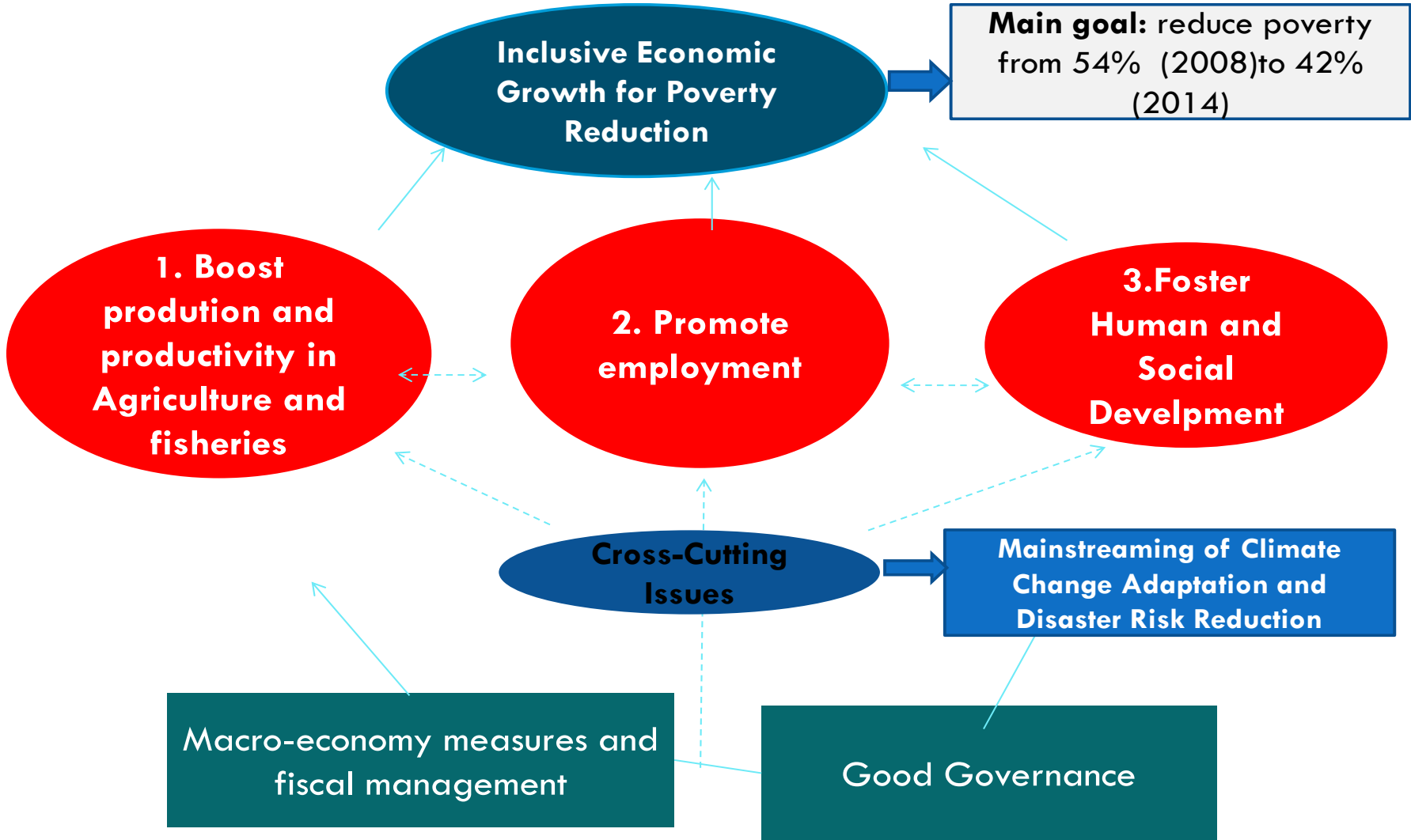
Note: The crops modeled are cassava, sorghum, soybeans, sweet potatoes and yams, wheat, groundnuts, maize, millet, and potatoes.

## Loss of Coastal Land and Displacement

**~1 million people at risk of displacement from coastal zones**



# GOVERNMENT DEVELOPMENT PLANS (2011-2014) AND OBJECTIVES



# SPCR Consultation Process

6

**Government led  
Consultation for NAPA**

- **Identification of Vulnerable Sectors**

**Internal Consultations**

- **Outline SPCR**

**Stakeholders  
Consultations**

- **Final SPCR**

**SESA**

- **Alternatives, Risks, Opportunities & Mitigation**

**Project Level**

- **Detailed Design Options**

# The Three Pillars of the SPCR

7

**Development Policy  
Operation**

**PPCR Funding**



**Pillar 1  
Institutional & Policy  
Reform**

- Institutional frameworks
- National & sector strategies
- Policies & regulatory instruments.

**Pillar 2  
Pilot Investments**

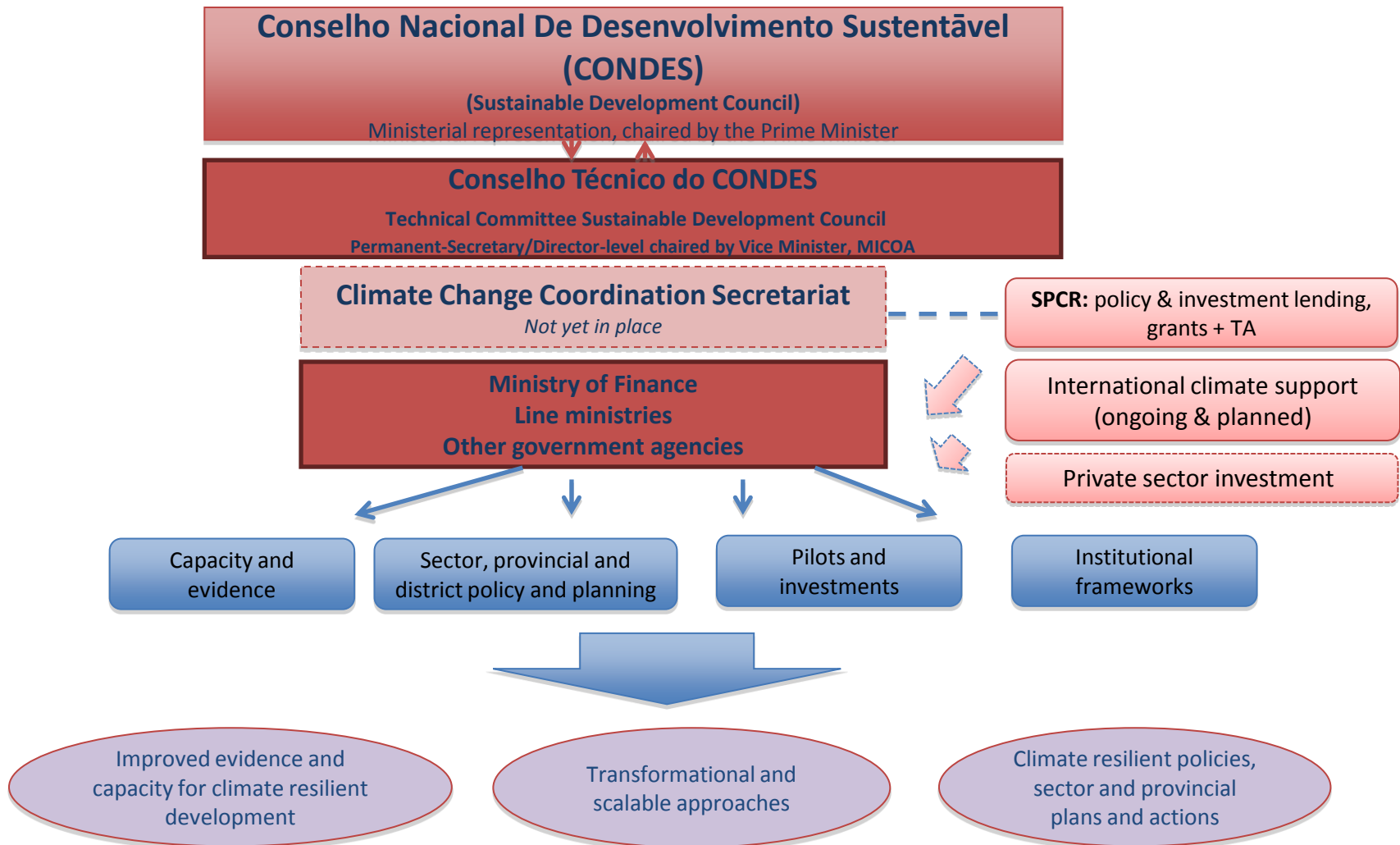
- Roads
- Agriculture & water resources
- Coastal cities
- Private sector investment in forestry and micro-irrigation

**Pillar 3  
Program and Knowledge  
Management**

- SPCR management and coordination
- Monitoring frameworks
- Knowledge management
- Evidence building
- Capacity-building

# Pillar 1: Getting Policies and Institutions Right

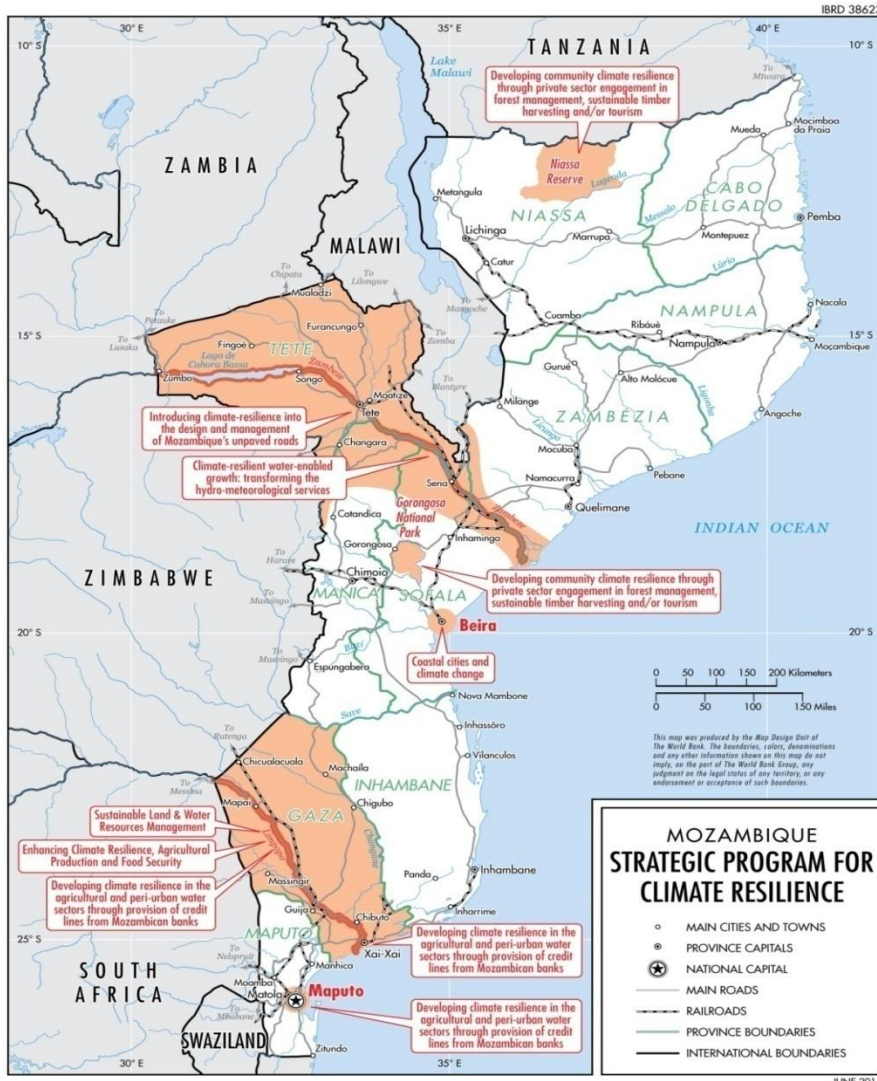
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# Pillar 2: Piloting Climate Resilient Investments at Scale

9



## Blended

### Zambezi Valley: Floods

- Climate resilient rural roads
- Developing hydro-meteorological systems

### Coastal vulnerability

- Developing climate resilience of Beira city

### Limpopo Watershed: Droughts

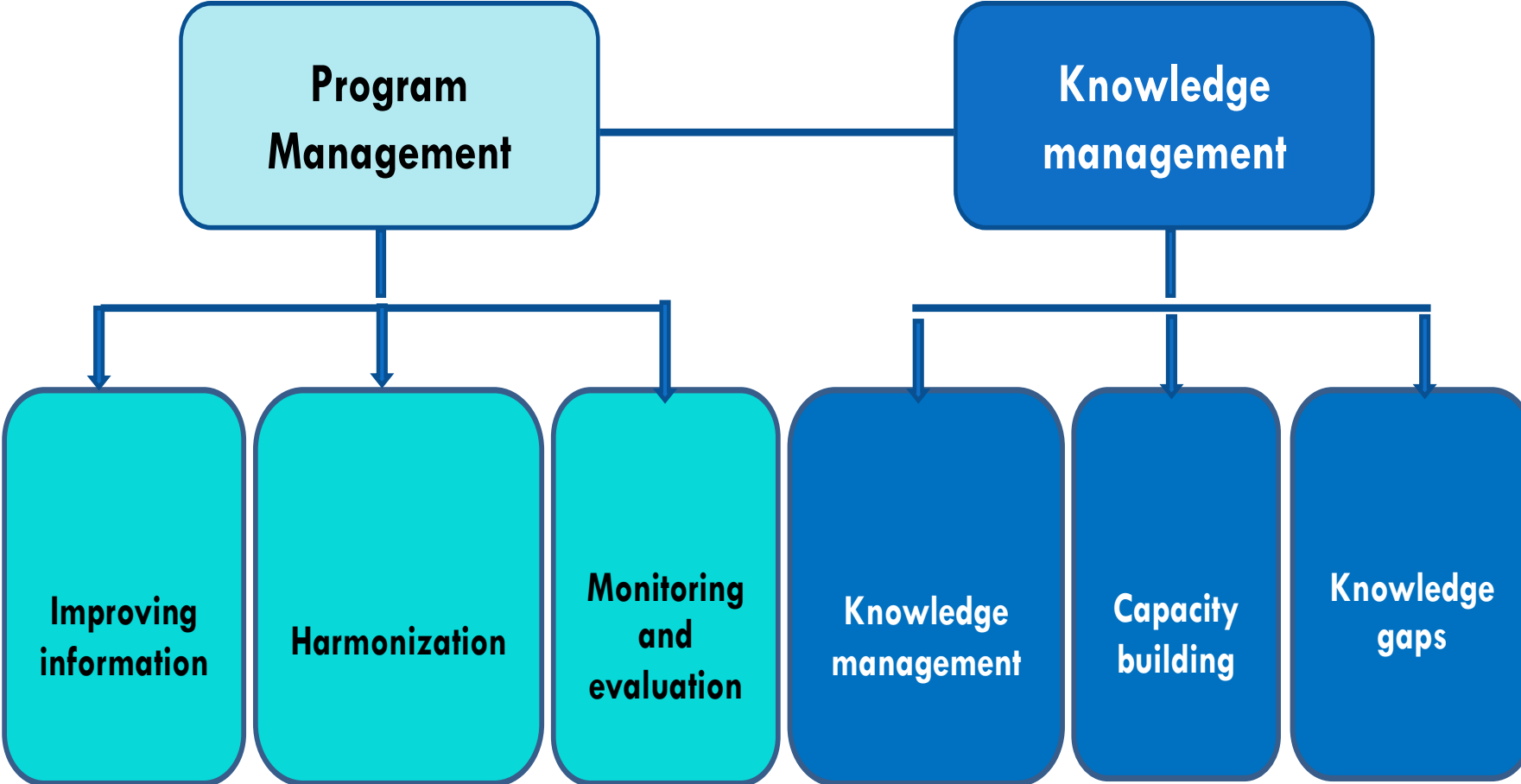
- Climate resilient agriculture,
- Community-based NRM in drought affected watersheds
- Credit lines for private investment in micro-irrigation

## Non Blended

### Forests management

- Building climate resilience through private investment in sustainable forest management and tourism

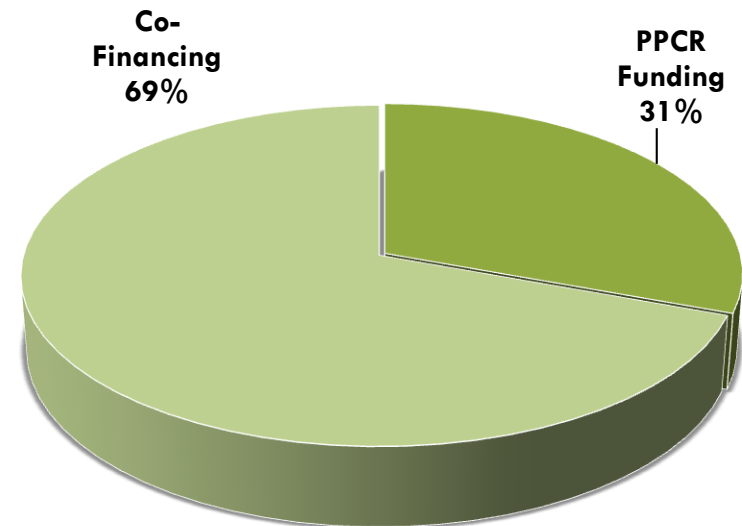
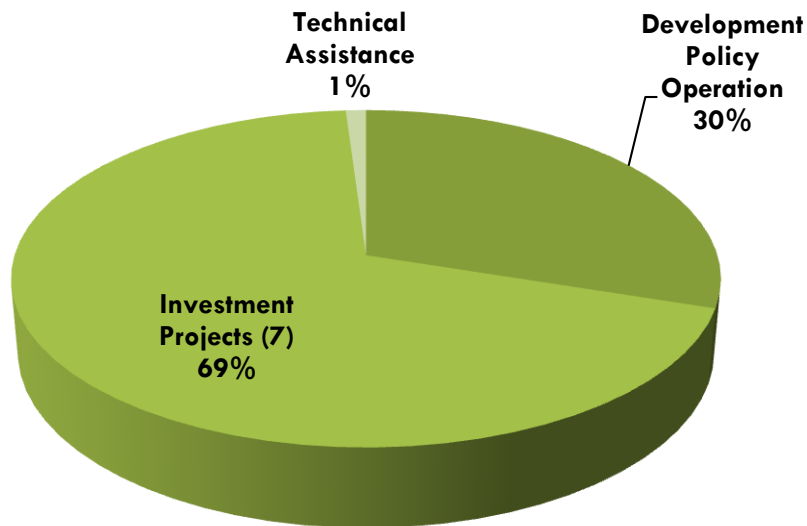
# Pillar 3: Program and Knowledge Management



# Proposed Instruments and Co-financing

11

**Mozambique SPCR = \$333 million**



**Co-Financing: Government, MDBs, Private Sector**

# Expected Results

12

- Institutional and policy frameworks.
- Capacity to integrate climate resilience into policies and plans
- Climate resilient road and coastal city pilots delivering results at scale
- Climate resilient natural resource management and agricultural systems
- Upgraded hydro-meteorological systems (Zambezi and Limpopo watersheds)
- Private sector investment in peri-urban water supply and forest management
- Improved understanding of climate impacts and value for money adaptation options

# Next Steps

- Establishment of the Climate Change Coordination Secretariat
- Detailed design of knowledge management systems
- Detailed design of M&E frameworks
- Completion of ongoing Phase I studies
- Detailed design of DPO and Phase II investments

# Investment project 1. Introducing climate-resilience into the design and management of Mozambique's unpaved roads



**Gvt implementing Agency:**

**ANE**

**Responsible MDB:**

**The World Bank**

**Project Cost:**

US\$35 million

**PPCR Request:**

**US\$20 million**

**Co-Financing (WB) :**

US\$15 million

- **Objectives:** Improve climate resilience of rural unpaved roads
- **Expected results:** Reduction of likelihood of road disruption from climate related events

## **Gender:**

- Improved girls access to school
- Improved women access to critical services, including markets and emergency supplies during major climatic events





# MOZAMBIQUE'S STRATEGIC PROGRAM FOR CLIMATE RESILIENCE



**“BUILDING RESILIENCE OF THE MOZAMBIQUE ECONOMY  
AND LOCAL COMMUNITIES”**

**Thank You**

# Investment Project 2: Coastal Cities and Climate Change



**Gvt Implementing Agencies:** MAE, Nacala and Beira

**Responsible MDB:** The World Bank

**Project Cost:** US\$ 100 million

**PPCR Request: US\$ 20 million**

**Co-Financing (WB) :** US\$ 80 million

**Objectives:** Enhance municipal capacity for sustainable resilience

**Expected results:**

- Stronger municipal planning at national and city level
- Upgrading of urban drainage works, and renovation and upgrading of the system of groynes in Beira

**Gender:**

- Reduced flooding in most vulnerable neighbourhoods, where many women are head of the family
- Given a leading role to women in early warning systems



## Investment project 3. Transforming the hydro-meteorological services

17



**Objectives:** Enhance the National Water Information System to support climate-resilience water-enabled economic growth.

**Expected results:**

- Enhance information base on weather and climate change risks
- Fully functional hydro-meteorological systems in operation in Zambezi and Limpopo

**Gender:**

- Decreased women exposure to weather-related risks through better informed decision making

**Gvt implementing Agencies:**

IIAM, DNA, INGC, INAM, ARAs

**Responsible MDB:**

The World Bank

**Project Cost:**

US\$15 million

**PPCR Request:**

US\$10 million

**Co-Financing (WB):**

US\$5 million

# Investment Project 4: Sustainable Land & Water Resources Management



**Objectives:** Promote climate resilient livelihoods through community-based watershed/landscape management approaches

**Expected results:**

- Increased productivity and profitability of farm enterprise income
- Increased availability of agricultural and domestic water
- Reduction in land and soil salinity

**Gender:**

- Women are over 70% of targeted population
- Improvement in food security and household income activities
- Women engagement in local decision making (type of local interventions)

**Gvt implementing Agencies:** MINAG, ARA Sul  
**Responsible MDB:** AfDB  
**Project Cost:** US\$39.95 million  
**PPCR Request:** US\$20 million  
**Co-Financing (AfDB):** US\$19.95 million

# Investment Project 5: Enhancing Climate Resilient Agricultural Production and Food Security



**Gvt implementing Agencies:** MINAG, SETSAN, IIAM  
**Responsible MDB:** AfDB  
**Project Cost:** US\$45 million  
**PPCR Request:** US\$20 million  
**Co-Financing ADF12 :** US\$25 million

**Objectives:** Improve Food security in the Limpopo watershed

**Expected results:**

- Increased yield of major food staples.
- Increased production of good quality seeds
- Increased efficiency in water management

**Gender:**

- Women are the majority of the targeted smallholder farmers in Gaza Province



# Investment Project 6: Developing climate resilience in the agricultural and peri-urban water sectors through provision of credit lines from Mozambican banks

20



**Objectives:** Improving climate resilience in the agricultural and peri-urban water sectors

**Gvt implementing Agency:** To be determined.

**Responsible MDB:** IFC

**Private sector partner:** To be determined.

**Project cost (\$):** To be determined.

**PPCR request (\$):** \$5 million

**IFC co-financing (\$):** \$5 million

**Private sector partner co-financing (\$):** >\$10 million (to be confirmed)

# Investment Project 7 (Option c): Developing the climate resilience of rural communities through investments to enhance tourism in Gorongosa National Park.



**Objectives:** Improve the climate resiliency of poor rural communities adjacent to Gorongosa National Park.

**Gvt implementing agency:** To be determined.

**Responsible MDB:** IFC

**Private sector partner:** To be determined.

**Project cost (\$):** \$20 million (To be determined)

**PPCR request (\$):** \$5 million

**IFC co-financing (\$):** \$5 million

**Private sector partner co-financing (\$):** >\$10 million (to be confirmed)