MODULE 5: ADAPTATION INFORMATION UNDER THE ETF
Modalities, Procedures and Guidelines (MPGs) of ETF

**Information to be communicated (MPGs)**

1. Introduction
2. National inventory report of anthropogenic emissions
3. Information necessary to track progress made in implementing and achieving NDCs.
4. **Information related to climate change impacts & adaptation under Article 7**
5. Information on financial, technology development and transfer and capacity-building support provided and mobilized
6. Information on financial, technology development and transfer and capacity-building support needed and received
7. Technical Expert Review
8. Facilitative, multilateral consideration of progress.

Chapter 1V. Climate change impacts and Adaptation
Adaptation information needs under ETF

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>National circumstances, institutional arrangements and legal frameworks</td>
</tr>
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<td>B</td>
<td>Impacts, risks and vulnerabilities</td>
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<tr>
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<tr>
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<td>M&amp;E of adaptation actions &amp; processes</td>
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<td>Cooperation, good practices, experience and lessons learned</td>
</tr>
<tr>
<td>I</td>
<td>Any other info related to impacts &amp; adaptation</td>
</tr>
</tbody>
</table>
Adaptation information to be communicated under MPGs

Chapter 1V. Climate change impacts and Adaptation

- National circumstances, institutional arrangements & legal FW
- Adapation priorities and barriers
- Adaptation strategies, policies, plans, goals and actions to integrate adaptation into policies
- Impacts, risks and vulnerabilities
- Info related to averting, minimising and addressing loss and damage
- Progress on implementation of adaptation
- Cooperation, good practices, experiences and lesson learned
- M&E of adaptation actions and processes
- Any other info
How can we use existing national info to inform MPGs

Chapter 1V. Climate change impacts and Adaptation

- Instituto Nacional De Estatica (INE)
- Instituto Nacional de Gestão das Calamidades (INGC).
- CC studies and risk assessments
- UKMO models developed by INAM
- National CC strategy
- National M&E for CC
- Sector CC action plans
- NDC
- GCF/LDCF/PPCR
**National M&E framework for adaptation in Mozambique**

### Strategic Objective 1
Build Mozambique resilient to Climate Change impacts, while minimizing climate risks to people and goods, restoring and ensuring rational use and protection of the natural and human developed capital.

#### Impact Indicators
- Variations in the Climate Change Vulnerability Index aggregated by Households

#### Strategic Actions
1. Climatic Risk Reduction
2. Water resources
3. Agriculture, Fisheries and Food Security and Nutrition
4. Social Protection
5. Health
6. Biodiversity
7. Forests
8. Infrastructure

### Strategic Objective 2
Identify and implement opportunities to reduce Greenhouse Gases (GHG) emissions contributing to the sustainable use of natural resources, access to financial and technological resources at affordable prices and pollution reduction and environmental degradation, by promoting a low-carbon development.

#### Impact Indicators
- Variation of the emission level of carbon dioxide equivalent (CO₂ eq) per capita

#### Strategic Actions
1. Improving access to renewable energy
2. Increasing energy efficiency
3. Ensure compliance of regulated standards for emissions from extractive industries
4. Promoting low-carbon urbanization
5. Control emissions of industrial processes including waste and effluents associated
6. Develop low-carbon agricultural practices
7. Ensure appropriate levels of food safety and nutrition
8. Maintain and manage biodiversity and coastal ecosystems
9. Manage and value waste

### Strategic Objective 3
Create institutional and human resources capacity as well as to explore opportunities to access technology and financial resources to implement the EMAMM.

#### Impact Indicators
Proportion of the state budget (OE) allocated to meet the needs for mitigation and adaptation to the effects of climate change (by sector, budgetary and extra-budgetary)

#### Strategic Actions
1. Set the current legal framework...
2. Adjust the existing institutional framework...
3. Develop research on climate changes
4. Strengthen institutions that collect data that feed the inventories of GHG...
5. Develop and improve the level of knowledge and capacity...
6. To promote the transfer and adoption of clean technologies and resilient to climate change

### Core Result Indicators
- ...
- ...
- ...

### Secondary Result Indicators
- ...
- ...
- ...

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(*) due to lack of space strategic actions were listed. 13 Strategic Actions are provided for in scope of pillar 1.

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("...")
How can the national systems inform the MPGs

Area A: National circumstances, institutional arrangements & legal FW

Information areas

- Biophysical characteristics
- Economics
- Infrastructure

Source

- Instituto Nacional De Estatica (INE)

- National CC strategy
- National M&E for CC
- NDC

National Circumstances

Institutional and legal arrangements

- For M&E
- For addressing CC
- For data governance
How can the national systems inform the MPGs

Area B: Impacts Risks and Vulnerabilities

Information areas

Current and projected trends and hazards

- Trends and Projections
- Temperature
- Precipitation
- Extreme weather events
- Changes in occurrence of extreme events
- Changes in frequency and intensity of events

CC vulnerability index

Economic impacts of CC

Source

National CC strategy & NDC

Instituto Nacional de Gestão das Calamidades (INGC)

UKMO models developed by INAM

National M&E for CC

WB report on economics of Adaptation
How can the national systems inform the MPG

**Area C: Adaptation Priorities and Barriers**

- Domestic priorities and challenges
  - National CC strategy
  - NDC
  - Sector CC action plans

**Area D: Adaptation strategies, policies, plans, goals and actions to integrate adaptation into national policies and strategies**

- Adaptation actions
  - National CC strategy
  - NDC
  - GCF programming
  - National Dev Plan
- Use of science based evidence in adaptation
  - Sector CC action plans
  - SPCR
  - LDCF
- Dev priorities and efforts to integrate CC into dev
  - National CC strategy
  - NDC
  - GCF programming
  - National Dev Plan
# How can the national systems inform the MPGs

## Information needed

- Implementation of the adaptation actions
- Steps taken to formulate, implement, publish and update national and regional programmes; strategies and measures, policy frameworks (e.g. national adaptation plans) and other relevant information;
- Implementation of adaptation actions identified in current and past adaptation communications, including efforts towards meeting adaptation needs, as appropriate;
- Implementation of adaptation actions identified in the adaptation component of NDCs, as applicable;
- Coordination activities and changes in regulation, policies and planning.

## Available indicators

- **Indicator 1 - Mainstreaming of Climate Change in the National Planning Process**
- **Indicator 2 - Level of Coordination of Climate Change Response**
- **Indicator 3 - Institutional capacity building and knowledge management for climate change response**

## Sources

- Impact indicators of Pillar 3: SNMACK
- Core results indicator of Pillar 1: SNMACK (strategic areas)
How can you use the national M&E framework to inform global reporting on adaptation information needs under ETF?

### Pillar 1: Strategic Objective 1

**Build Mozambique resilient to Climate Change impacts, while minimizing climate risks to people and goods, restoring and ensuring rational use and protection of the natural and human developed capital.**

### Impact Indicators

- Variations in the Climate Change Vulnerability Index aggregated by Households

### Strategic Actions

1. Climatic Risk Reduction
2. Water resources
3. Agriculture, Fisheries and Food Security and Nutrition
4. Social Protection
5. Health
6. Biodiversity
7. Forests
8. Infrastructure

(1) due to lack of space, strategic actions were listed
(2) Strategic Actions are provided for in scope of pillar

### Adaptation information needs under ETF

| A) National circumstances, institutional arrangements and legal frameworks |
| B) Impacts, risks and vulnerabilities |
| C) Adaptation priorities and barriers |
| D) Adaptation strategies, policies, plans, goals and actions to integrate adaptation into policies |
| E) Progress on implementation of adaptation |
| F) M&E of adaptation actions & processes |
| G) Info related to averting, minimising and addressing loss and damage |
| H) Cooperation, good practices, experience and lessons learned |
| I) Any other info related to impacts & adaptation |
How can the national systems inform the MPGs

**Area F: Monitoring and Evaluation of Adaptation Actions**

<table>
<thead>
<tr>
<th>Information needed</th>
<th>Available indicators</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Establishment or use of domestic systems to monitor and evaluate the implementation of adaptation actions</td>
<td>National M&amp;E framework for Climate Change (SNMACC)</td>
<td>Impact, Core and secondary results indicator under Pillar 1. National M&amp;E framework for Climate Change (SNMACC).</td>
</tr>
<tr>
<td>Achievements, impacts, resilience, review, effectiveness, and results.</td>
<td><strong>Indicator of changes in vulnerability:</strong> For example: Climate Vulnerability Index (Impact Indicator under Pillar 1).</td>
<td></td>
</tr>
</tbody>
</table>

**Core results indicator**

<table>
<thead>
<tr>
<th>Indicators of resilience:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Percentage of households with access to safe water all year (strategic area- water)</td>
<td></td>
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<tr>
<td>2. Number of households involved in agriculture adapted to climate change</td>
<td></td>
</tr>
<tr>
<td>3. Percentage of district roads rehabilitated from 2014 in the pilot provinces (Gaza and West Inhambane) in accordance with the standards, guidance and technical specifications that consider Climate Change. (strategic area- Infrastructure).</td>
<td></td>
</tr>
</tbody>
</table>

**Secondary results indicator**

<table>
<thead>
<tr>
<th>Indicators of resilience:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Number of new seed varieties resistant to climate variability in the Process of production introduced in Mozambique</td>
<td></td>
</tr>
<tr>
<td>2. Percentage of Households using AgroChemicals in the production process</td>
<td></td>
</tr>
<tr>
<td>3. Number of farmers using integrated process management Pest (IPM)</td>
<td></td>
</tr>
<tr>
<td>4. Percentage of Households using improved barns</td>
<td></td>
</tr>
<tr>
<td>5. Number of animals vaccinated for disease control (goats, cattle, pigs, poultry)</td>
<td></td>
</tr>
<tr>
<td>6. Number of health centers built and in operation</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Indicators of development impact or improved wellbeing</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Change in the average yield of maize producers involved in improving soil and water conservation techniques</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Indicators of development impact or improved wellbeing or reduced loss and damage</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Area lost due to extreme weather events (floods and droughts)</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Information on averting, minimizing &amp; addressing loss and damage</td>
</tr>
</tbody>
</table>
THANK YOU

FAO CBIT AFOLU TEAM

CAPACITY BUILDING INITIATIVE FOR TRANSPARENCY

FAO CBIT – AFOLU PROJECT

Contact: MICCA@fao.org
A theory of change for adaptation

## Adaptation information needs

1) National circumstances, institutional arrangements and legal frameworks
2) Impacts, risks and vulnerabilities
3) Adaptation priorities and barriers
4) Adaptation strategies, policies, plans, goals and actions to integrate adaptation into policies
5) Progress on implementation of adaptation
6) M&E of adaptation actions & processes
7) Info related to averting, minimising and addressing loss and damage
8) Cooperation, good practices, experience and lessons learned
9) Any other info related to impacts & adaptation
### Chapter 1V.
**Climate change impacts and Adaptation**

| national circumstances, institutional arrangements & legal frameworks | • National circumstances related to adaptation actions  
• Institutional arrangements & governance (assessing impacts, decision making, planning, coordination, M&E)  
• Legislative, policy, regulatory frameworks |
|---|---|
| impacts, risks & vulnerabilities | • Climate trends & hazards (current, projected)  
• Observed & potential climate change impacts (sectoral, economic, social, environmental)  
• Approaches, methodologies & tools & associated uncertainties & challenges |
### Chapter 1V.
**Climate change impacts and Adaptation**

<table>
<thead>
<tr>
<th>Priorities &amp; Barriers</th>
<th>Strategies, Policies, Plans, Goals, Actions to Integrate Adaptation into National Policies &amp; Strategies</th>
</tr>
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<tbody>
<tr>
<td>• Domestic priorities &amp; progress</td>
<td>• Actions in accordance with the adaptation global goal (art. 7(1) PA)</td>
</tr>
<tr>
<td>• Challenges, gaps, barriers to adaptation</td>
<td>• Goals, actions, objectives, efforts, plans, strategies, policies, efforts to build resilience</td>
</tr>
<tr>
<td></td>
<td>• Development priorities related to adaptation &amp; impacts</td>
</tr>
<tr>
<td></td>
<td>• Nature-based solutions to climate change adaptation</td>
</tr>
<tr>
<td></td>
<td>• Adaptation actions and/or economic diversification plans leading to mitigation co-benefits</td>
</tr>
<tr>
<td></td>
<td>• etc..</td>
</tr>
</tbody>
</table>
| M&E of adaptation actions & processes | • Information on domestic systems to monitor & evaluate the implementation of adaptation actions (current, under development)  
• Achievements, effectiveness, resilience, results, …  
• Approaches, indicators, assessment  
• Good practices, experiences, lessons learnt  
• etc.... |
| Information on averting, minimizing & addressing loss and damage | • Observed & potential climate change impacts (incl. related to extreme weather events & slow onset events)  
• Activities related to averting, minimizing & addressing loss & damage  
• Institutional arrangements for the implementation of those activities |