OFFICE OF THE VICE-PRESIDENT
DISASTER MANAGEMENT & MITIGATION UNIT

ZAMBIA NATIONAL DISASTER RISK MANAGEMENT FRAMEWORK-(2017 – 2030)
OPERATIONALISING THE SENDAI FRAMEWORK
ZAMBIA NATIONAL DISASTER RISK MANAGEMENT FRAMEWORK

(2017 – 2030)

OPERATIONALISING THE SENDAI FRAMEWORK
FOREWORD

The National Disaster Risk Management Framework seeks to operationalise the Sendai Framework for Disaster Risk Reduction-2015-2030 which was adopted in Japan in March, 2015 by the Third World Conference on Disaster Risk Reduction.

The Sendai Framework is a Successor to the Hyogo Framework for Action which is aimed at building resilience of nations and communities to disasters.

While the Hyogo Framework called for broad platforms; the spirit of the Sendai framework is to call upon stakeholders to join the government in concerted efforts in reducing disaster risk.

Building upon the gains of the Hyogo Framework for Action, this National Framework encapsulates the spirit of the Sendai Framework which escalates the global momentum to reducing disaster risk in all its dimensions. The Framework articulates the following Priority Areas:

- Understanding of Disaster Risk in all its dimensions of exposure, vulnerability and hazard characteristics;
- Strengthening of Disaster Risk Governance to Manage Disaster Risk including National Platforms;
- Investing in Disaster Risk Reduction for Resilience; and
- Enhancing Disaster Preparedness for Effective Response and to “Build Back Better” in Recovery, Rehabilitation and Reconstruction.

The Government is committed to ensuring that the Framework is successfully implemented by mainstreaming disaster risk reduction into the national development planning processes. I therefore call upon all critical stakeholders to join hands in the implementation of this Framework.

Mrs. Inonge M. Wina, MP
Vice-President of the Republic of Zambia
ACKNOWLEDGEMENT

The development of this National Disaster Risk Management Framework could not have been successful without the unwavering commitment from the Members of Staff from Disaster Management and Mitigation Unit and Ministry of National Development Planning.

Special thanks also go to the Line Ministries, United Nations System, Development Partners, Non-Governmental Organisations, Faith Based Organisations and Higher Learning Institutions for their effort and valuable insight provided to finalise the Framework.

It is hoped that the enthusiasm that characterized the preparation of this Framework will be maintained during its implementation and that the aspiration of disaster resilient communities in Zambia will be realized.

Yande P. Mwape
National Coordinator
Disaster Management and Mitigation Unit
Office of the Vice President
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AfDB</td>
<td>African Development Bank</td>
</tr>
<tr>
<td>AU</td>
<td>African Union</td>
</tr>
<tr>
<td>COMESA</td>
<td>Common Market for East and Southern Africa</td>
</tr>
<tr>
<td>CSMC</td>
<td>Climate Services Monitoring Centre</td>
</tr>
<tr>
<td>CSO</td>
<td>Central Statistical Office</td>
</tr>
<tr>
<td>DDMC</td>
<td>District Disaster Management Committee</td>
</tr>
<tr>
<td>DMMU</td>
<td>Disaster Management and Mitigation Unit</td>
</tr>
<tr>
<td>DWA</td>
<td>Department of Water Affairs</td>
</tr>
<tr>
<td>ERT</td>
<td>Emergency Response Team</td>
</tr>
<tr>
<td>FBO</td>
<td>Faith Based Organisation</td>
</tr>
<tr>
<td>FRA</td>
<td>Food Reserve Agency</td>
</tr>
<tr>
<td>GEF</td>
<td>Global Environmental Fund</td>
</tr>
<tr>
<td>GFDRR</td>
<td>Global Facility for Disaster Reduction and Recovery</td>
</tr>
<tr>
<td>IBRD</td>
<td>International Bank for Reconstruction and Development</td>
</tr>
<tr>
<td>ICP</td>
<td>International Co-operating Partner</td>
</tr>
<tr>
<td>INGO</td>
<td>International Non-Governmental Organisation</td>
</tr>
<tr>
<td>MoCDSW</td>
<td>Ministry of Community Development and Social Welfare</td>
</tr>
<tr>
<td>MoCTI</td>
<td>Ministry of Commerce Trade and Industry</td>
</tr>
<tr>
<td>MoIBS</td>
<td>Ministry of Information and Broadcasting Services</td>
</tr>
<tr>
<td>MoHID</td>
<td>Ministry of Housing and Infrastructure Development</td>
</tr>
<tr>
<td>MoLSS</td>
<td>Ministry of Labour and Social Security</td>
</tr>
<tr>
<td>MoMD</td>
<td>Ministry of Mines and Minerals Development</td>
</tr>
<tr>
<td>MoA</td>
<td>Ministry of Agriculture</td>
</tr>
<tr>
<td>MoCTA</td>
<td>Ministry of Chiefs and Traditional Affairs</td>
</tr>
<tr>
<td>MoF</td>
<td>Ministry of Finance</td>
</tr>
<tr>
<td>MoFA</td>
<td>Ministry of Foreign Affairs</td>
</tr>
<tr>
<td>MoGE</td>
<td>Ministry of General Education</td>
</tr>
<tr>
<td>MoH</td>
<td>Ministry of Health</td>
</tr>
<tr>
<td>MoHE</td>
<td>Ministry of Higher Education</td>
</tr>
<tr>
<td>Acronym</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>---------------------------------------------------------</td>
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<tr>
<td>MoJ</td>
<td>Ministry of Justice</td>
</tr>
<tr>
<td>MoLG</td>
<td>Ministry of Local Government</td>
</tr>
<tr>
<td>MoLNR</td>
<td>Ministry of Lands and Natural Resources</td>
</tr>
<tr>
<td>MoNDP</td>
<td>Ministry of National Development Planning</td>
</tr>
<tr>
<td>MoWS</td>
<td>Ministry of Works and Supply</td>
</tr>
<tr>
<td>MoWDSEP</td>
<td>Ministry of Water Development, Sanitation and Environmental Protection</td>
</tr>
<tr>
<td>NCC</td>
<td>National Construction Council of Zambia</td>
</tr>
<tr>
<td>NDMCF</td>
<td>National Disaster Management Consultative Forum</td>
</tr>
<tr>
<td>NEPAD</td>
<td>New Partnership for Africa’s Development</td>
</tr>
<tr>
<td>NRFA</td>
<td>National Road Fund Agency</td>
</tr>
<tr>
<td>PDMC</td>
<td>Provincial Disaster Management Committee</td>
</tr>
<tr>
<td>PIA</td>
<td>Pensioners and Insurers Authority</td>
</tr>
<tr>
<td>RDA</td>
<td>Road Development Agency</td>
</tr>
<tr>
<td>RTSA</td>
<td>Road Transport and Safety Agency</td>
</tr>
<tr>
<td>SADC</td>
<td>Southern Africa Development Community</td>
</tr>
<tr>
<td>SDMC</td>
<td>Satellite Disaster Management Committee</td>
</tr>
<tr>
<td>SMHI</td>
<td>Swedish Meteorological and Hydrological Institute</td>
</tr>
<tr>
<td>TEVETA</td>
<td>Technical Education and Vocational Entrepreneurship Training Authority</td>
</tr>
<tr>
<td>UN</td>
<td>United Nations</td>
</tr>
<tr>
<td>UNISDR</td>
<td>United Nations International Secretariat for Disaster Reduction</td>
</tr>
<tr>
<td>UN-ITU</td>
<td>United Nations International Telecommunications Union</td>
</tr>
<tr>
<td>UN-SPIDER</td>
<td>United Nations Platform for Space-Based Information for Disaster Management and Emergency Response</td>
</tr>
<tr>
<td>WARMA</td>
<td>Water Resources Management Authority</td>
</tr>
<tr>
<td>ZA</td>
<td>Zambia Army</td>
</tr>
<tr>
<td>ZAF</td>
<td>Zambia Air Force</td>
</tr>
<tr>
<td>ZEMA</td>
<td>Zambia Environmental Management Agency</td>
</tr>
<tr>
<td>ZICTA</td>
<td>Zambia Information and Telecommunications Authority</td>
</tr>
<tr>
<td>Acronym</td>
<td>Full Name</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>ZMD</td>
<td>Zambia Meteorological Department</td>
</tr>
<tr>
<td>ZNFU</td>
<td>Zambia National Farmers Union</td>
</tr>
<tr>
<td>ZNS</td>
<td>Zambia National Service</td>
</tr>
<tr>
<td>ZRA</td>
<td>Zambia Revenue Authority</td>
</tr>
<tr>
<td>ZRCS</td>
<td>Zambia Red Cross Society</td>
</tr>
<tr>
<td>ZVAC</td>
<td>Zambia Vulnerability Assessment Committee</td>
</tr>
</tbody>
</table>
DEFINITIONS

**Disaster**: A serious disruption of the functioning of a community or a society to hazardous events interacting with conditions of vulnerability, exposure leading to involving widespread human, material, economic or environmental losses and impacts.

**Early Warning System**: An interrelated set of hazard warning, risk assessment, communication and preparedness activities that enable individuals, communities, businesses and others to take timely action to reduce their risks.

**Economic Loss**: Total economic impact that consists of direct economic loss and indirect economic loss.

**Disaster Impact**: Represents the overall affects of a disaster, including negative and possibly positive ones.

**Disaster Risk**: The potential disaster losses, in lives, health status, livelihoods, assets and services, which could occur to a particular community or a society over some specified future time period.

**Disaster Risk Management (DRM)**: Is the application of disaster risk reduction policies, processes and actions to present new risk, reduce existing disaster risks and manage residual risks contributing to the strengthening of resilience.

**Disaster Risk Reduction (DRR)**: Is the policy objective aimed at preventing new and reducing existing disaster risk and managing residual risk, all of which contributes to strengthen resilience.

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1 Definitions are from the UN International Strategy for Disaster Reduction (UNISDR)
**Hazard:** A potentially damaging physical event, phenomenon or human activity that may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation.

**Preparedness:** The knowledge and capacities developed by Government, professional, response and recovery organisations, communities and individuals to effectively anticipate, respond to and recover from, the impacts of likely, imminent or current disasters.

**Prevention:** Activities and measures to avoid existing and new disaster risks.

**Recovery:** Decisions and actions aimed at resisting or improving livelihoods, health, as well as economic, physical, social, cultural and environmental assets, systems and activities of a disaster affected community or society, aligning with the principles of sustainable development, including building back better to avoid or reduce future disaster risks.

**Response:** Actions taken during or immediately after a disaster in order to save lives, reduce health impacts, ensure public safety and meet the basic subsistence needs of the people affected.

**Risk:** The combination of the probability of an event and its negative consequences.

**Risk Assessment:** An application to determine the nature and extent of risk by analysing potential hazards and evaluating existing conditions of vulnerability that together could potentially harm exposed people, poverty, services, livelihoods and the environment on which they depend.
**Rehabilitation:** The rapid and basic restoration of services and facilities for the functioning of a community or society affected by a disaster.

**Resilience:** The ability of a system, community or society exposed to hazards to resist, absorb, accommodate to and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions.

**Vulnerability:** The conditions determined by physical, social, economic and environmental factors or processes, which increase the susceptibility of a community to the impact of hazards.
1. BACKGROUND

Zambia is exposed to a variety of hazards which, when combined with vulnerability, can lead to disasters. The major hazards the country experiences include drought, floods, pest infestations, epidemics (both human and animal), hail storms and landslides. Further, it experiences man-made hazards such as fires, transport and industrial accidents.

Also of significance is the increase in trans-boundary risks that are being progressively exacerbated by, among other things, population growth, ecosystem degradation and unplanned urbanisation. This coupled with poverty and unsustainable land-use management has worsened the current situation thereby reducing the coping capacity and resilience of communities.

In addition, climate change and variability has made it more difficult to predict the behaviour of hazards. In view of this, the need to enhance the integrated disaster risk management has become necessary and urgent if the country is to protect its citizens and assets from the adverse effects of disaster risks.

The 3rd World Conference on Disaster Risk Reduction in Japan in 2015 led to the development and adoption of the Sendai Framework which has provided this country with a concise, focused, forward-looking and action-oriented framework for disaster risk reduction. In order to achieve the most out of this international framework, a policy decision was made to domesticate the Sendai Framework through the enhancement of the National Disaster Risk Management (NDRM) Framework. This NDRM Framework also draws its strength from the following documents:

- Disaster Management Act (2010);
National Disaster Management Policy (2015);
Disaster Management Operations Manual (2015);
Africa Programme of Action for the Implementation of the Sendai Framework (2015-2030);
SADC Disaster Preparedness and Response Strategy Fund (2016-2030);
Paris Agreement on Climate Change; and
Sustainable Development Goals.

The purpose of the NDRM framework is to build on the Sendai framework and others in order to facilitate the identification of priority areas which must be integrated into the national development planning processes.

Implementing the above framework and its activities will demand concerted efforts by all stakeholders led by Government. This will substantially reduce the amount of money being spent on disaster response and recovery operations which continue to escalate. It is an established fact that investing in disaster risk reduction utilises much less resources than disaster response operations. The freed-up resources can be used for other sustainable development initiatives.

2. SITUATIONAL ANALYSIS

The country has made significant strides in institutionalizing disaster risk reduction as evidenced by the establishment of an institutional framework, development of policy and legal instruments, national and sub-national platforms in line with the Hyogo Framework for Action (HFA). In addition, the regular review and update of contingency plans has enhanced response effectiveness. The networking with critical stakeholders especially in generation and dissemination of early warning information has also developed significantly over the past decade. On the other hand, the growth of the logistical capacity of the DMMU has significantly reduced
government’s cost of service delivery to the most vulnerable populations. In the area of knowledge and information management, the country has made significant strides in the creation of disaster related databases.

Though the country has recorded minimal deaths directly arising from natural disasters, the recorded deaths have mainly been from marine, technological, industrial and road traffic accidents. Table 1 shows the disaster statistics for the country.

Table 1: Zambia - Disaster Statistics

<table>
<thead>
<tr>
<th>EVENTS</th>
<th>NO OF PEOPLE AFFECTED/DEATHS</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Disasters-1978-2013</td>
<td>5,158,258</td>
<td>Affected</td>
</tr>
<tr>
<td>Technological Disasters-2008-2015</td>
<td>1,051</td>
<td>Affected</td>
</tr>
<tr>
<td>Natural Disasters-1978-2012</td>
<td>411</td>
<td>Deaths</td>
</tr>
<tr>
<td>Total No. of deaths (Epidemics only)</td>
<td>272</td>
<td>Deaths</td>
</tr>
<tr>
<td>Total Economic Damage (US$):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200,000 (1978-Lusaka)</td>
<td>Damage only from floods</td>
<td></td>
</tr>
<tr>
<td>20,700,000 (1998-Northern)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: EM-DAT, CRED, University of Louvain, Belgium

According to the study, on the economic impacts of climate change conducted in 2011 by Government, a Gross Domestic Product (GDP) loss of
about USD 5 Billion over a 10 to 20-year period was estimated. Other significant losses have emanated from the damage and destruction of critical infrastructure in the education, health and road sectors as well as dwellings. Another area requiring improvement is community based early warning and early action. This should be supplemented by the further entrenchment of community based disaster risk reduction with a view to attaining resilience and sustainable development.

The existence of significant levels of vulnerabilities among both urban and rural populations coupled with the threat of increased occurrence and severity of disasters inevitably calls for concerted efforts to invest in risk reduction and resilience at all levels. The priority areas therefore, as articulated in the Sendai Framework provides an opportunity to broaden the spectrum of understanding disaster risk and strengthen its governance and management. Further, the framework provides an opportunity to invest in disaster risk reduction in order to build resilience and enhance disaster preparedness for effective response and "building back better".

3. GOAL, OBJECTIVE, OUTCOME AND PRIORITIES FOR ACTION OF THE NATIONAL DISASTER RISK MANAGEMENT FRAMEWORK

Goal

To prevent new and reduce existing disaster risk in the country through the implementation of integrated and inclusive economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce hazard exposure and vulnerability to disaster, increase preparedness for response and recovery, and thus strengthen resilience.
Objective
To enhance the implementation capacity and capability of the country to significantly reduce vulnerability and contribute to resilience and sustainable development.

Outcome
The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses and communities.

Priorities for Action
In line with the Sendai Framework, the key focus areas of the National DRM Framework are:

- Understanding Disaster risks;
- Strengthening Disaster risk governance to manage disaster risk;
- Investing in disaster risk reduction for resilience; and
- Enhancing disaster preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction.

4. GUIDING PRINCIPLES

The following are the guiding principles:

- Managing the risk of disasters is aimed at protecting persons and their property, health, livelihoods and productive assets, as well as cultural and environmental assets, while promoting and protecting all citizens’ rights, including the right to development;
- Disaster risk reduction requires an all-of-society engagement and partnership requiring empowerment and inclusive, accessible and
non-discriminatory participation taking into consideration the following:

- People disproportionately affected by disasters, especially the poorest;
- Gender, age, disability and cultural perspectives;
- Women and youth leadership; and
- Organized volunteers

- Disaster risk reduction and management depends on a well-coordinated mechanism within and across sectors and with relevant stakeholders at all levels;
- While DRM remains a function of central Government, it is necessary to empower local authorities and local communities to reduce disaster risk, including through resources, incentives and decision-making responsibilities, as appropriate;
- Disaster risk reduction requires a multi-hazard approach and inclusive risk-informed decision-making based on the open exchange and dissemination of disaggregated data (sex, age, disability) as well as risk information complemented by indigenous knowledge;
- Disaster risk reduction is essential to achieve integrated sustainable development;
- While the drivers of disaster risk may be national or sub-national in scope, disaster risks have specific characteristics that must be understood for the determination of measures to reduce risk;
- Addressing underlying disaster risk factors through disaster risk informed public and private investments are more cost-effective than primary reliance on post-disaster response and recovery, and contribute to sustainable development; and
- In the post-disaster recovery, rehabilitation and reconstruction phase it is critical to prevent the creation of and to reduce disaster risk by
“Building Back Better” and increasing public education and awareness of disaster risk.
## 5. THE DRM FRAMEWORK: 2017 – 2030

### Priority Area 1: Understanding Disaster Risk

The country has endeavoured to develop policies and practices for disaster risk management based on an understanding of disaster risk in all its dimensions of vulnerability, capacity, exposure of persons and assets, hazard characteristics and the environment. This has been used to leverage pre-disaster risk assessment, prevention and mitigation for the development and implementation of appropriate preparedness and effective response mechanisms to disasters. The country intends to achieve the following targets by 2030 in this priority area:

<table>
<thead>
<tr>
<th>No.</th>
<th>Target 1:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030.</td>
</tr>
</tbody>
</table>

**Compound Indicator:**

Number of provinces/districts that have multi-hazard early warning systems.

**Programme:** Disaster Preparedness

**Outcome Indicators:**

- Number of provinces and districts that have a multi-hazard monitoring and forecasting Systems.
- Number of people per 100,000 that are covered by early warning information through national, provincial, district and satellite dissemination mechanisms.
- Percentage of national, provincial, district and satellite structures having a plan to act on early warning systems.
warnings.

Number of sectors that have accessible, understandable, usable and relevant disaster risk information and assessment available to the people at the national and local level.

Percentage of population exposed or at risk from disasters protected through pre-emptive evacuation following early warning.

<table>
<thead>
<tr>
<th>2</th>
<th>Target 2:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters by 2030.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programme:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disaster Preparedness, Mitigation and Response</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outcome Indicators:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage of deaths, missing persons and persons affected by disasters.</td>
</tr>
<tr>
<td>Percentage of people accessing micro-insurance.</td>
</tr>
<tr>
<td>Number of beneficiaries on social safety nets whose livelihoods have improved.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3</th>
<th>Target 3:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrate DRR in primary, secondary and tertiary curricula, training systems with adequate resourcing and capacities.</td>
<td></td>
</tr>
<tr>
<td>Programme:</td>
<td>Outcome Indicators:</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>Disaster Preparedness</td>
<td>DRR incorporated in primary, secondary and tertiary curricula.</td>
</tr>
<tr>
<td></td>
<td>Number of teachers who have acquired skills in DRR.</td>
</tr>
<tr>
<td></td>
<td>Number and type of DRR IEC materials being used.</td>
</tr>
</tbody>
</table>
Priority Area 2: Strengthening Disaster Risk Governance to manage disaster risk

The country recognises the importance of disaster risk governance at both national and sub-national levels for effective and efficient management hence the need to continue strengthening it. This will be achieved through the clear vision, plans, competence, guidance and coordination within and across sectors as well as participation of relevant stakeholders. The prevention, mitigation, preparedness, response, recovery, and rehabilitation is therefore necessary and fosters collaboration and partnership across mechanisms and institutions for the implementation of instruments relevant to disaster risk reduction and sustainable development. The country intends to achieve the following targets by 2030 in this priority area:

<table>
<thead>
<tr>
<th>No.</th>
<th>Target 1:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Substantially increase the number of districts with disaster risk management strategies by 2020.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programme:</th>
<th>Outcome Indicator:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disaster Preparedness</td>
<td>Percentage of districts that adopt and implement disaster risk reduction strategies in line with the national strategy.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2</th>
<th>Target 2:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substantially enhance international cooperation to complement national actions for the implementation of this Framework by 2030.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programme:</th>
<th>Outcome Indicator:</th>
</tr>
</thead>
</table>
| Disaster Preparedness | Total official international support (ODA plus other official flows) for national DRR actions provided by multilateral agencies.  
Total official international support (ODA plus other official flows) for national DRR actions provided bilaterally.  
Total official international support (ODA plus other official flows) for the transfer and exchange of DRR related technology. |

3 **Target 3:**

Substantially increase the number of networks or partnerships for knowledge management and capacity development, including specialized centres and networks.

| Programme: Disaster Preparedness | Outcome Indicators: Increased knowledge exchange and capacity in Disaster Risk Reduction. |
**Priority Area 3: Investing in Disaster Risk Reduction for resilience**

The increasing impacts of climate change will make disasters more frequent and severe thereby increasing the risk. Therefore, investing in disaster risk reduction will become immense. The country intends to achieve the following targets by 2030 in this priority area:

<table>
<thead>
<tr>
<th>No.</th>
<th>Target 1:</th>
<th>Substantially reduce national disaster mortality by 2030, aiming to lower average per 100,000 national mortality between 2020-2030 compared to 2005-2015.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Compound Indicator:</strong></td>
<td>Number of deaths and missing persons attributed to disasters, per 100,000 population.</td>
</tr>
<tr>
<td></td>
<td><strong>Programme:</strong></td>
<td>Number of deaths attributed to disasters, per 100,000 population.</td>
</tr>
<tr>
<td></td>
<td><strong>Outcome Indicators:</strong></td>
<td>Number of missing persons attributed to disasters, per 100,000 population.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2</th>
<th>Target 2:</th>
<th>Substantially reduce the number of affected people nationally by 2030, aiming to lower the average national figure per 100,000 between 2020-2030 compared to 2005-2015.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Compound Indicator:</strong></td>
<td>Number of directly affected people attributed to disasters, per 100,000 population.</td>
</tr>
<tr>
<td></td>
<td><strong>Programme:</strong></td>
<td><strong>Outcome Indicators:</strong></td>
</tr>
<tr>
<td>Disaster Preparedness, Response and Recovery</td>
<td>Number of injured or ill people attributed to disasters, per 100,000 population.</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>---------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Number of people whose damaged dwellings were attributed to disasters.</td>
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</tr>
<tr>
<td></td>
<td>Number of people whose destroyed dwellings were attributed to disasters.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Number of people whose livelihoods were disrupted or destroyed, attributed to disaster.</td>
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</tr>
</tbody>
</table>

3 **Target 3:** Reduce direct disaster economic loss in relation to national gross domestic product (GDP) by 2030.

**Compound Indicator:**
Direct economic loss attributed to disasters in relation to national gross domestic product.

**Programme:** Disaster Preparedness, Response and Recovery

**Outcome Indicators:**
- Direct agricultural loss attributed to disasters.
- Direct economic loss to all other damaged or destroyed productive assets attributed to disasters.
- Direct economic loss in the housing sector attributed to disaster.
Direct economic loss resulting from damaged or destroyed critical infrastructure attributed to disasters (roads, bridges, clinics, hospitals, schools).

Direct economic loss to cultural heritage damaged or destroyed attributed to disasters.

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<tr>
<th>4</th>
<th><strong>Target 4:</strong></th>
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<tbody>
<tr>
<td></td>
<td>Substantially expand the scope and increase the number of sources for domestic financing in DRR.</td>
</tr>
<tr>
<td><strong>Programme:</strong></td>
<td><strong>Outcome Indicator:</strong></td>
</tr>
<tr>
<td>Disaster Preparedness</td>
<td>Number of established Disaster Risk Reduction domestic financing other than the Treasury.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>5</th>
<th><strong>Target 5:</strong></th>
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<tbody>
<tr>
<td></td>
<td>Ensure access for all to adequate, safe and affordable housing and basic services.</td>
</tr>
<tr>
<td><strong>Programme:</strong></td>
<td><strong>Outcome Indicator:</strong></td>
</tr>
<tr>
<td>Disaster Preparedness and Response</td>
<td>Proportion of urban and rural population living in adequate and decent housing.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>6</th>
<th><strong>Target 6:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Strengthen resilience and adaptive capacity of communities and the environment to climate related hazards and natural disasters at all levels.</td>
</tr>
</tbody>
</table>
Programme: Disaster Preparedness
Outcome indicators:
- Districts implementing Disaster Risk Reduction projects.
- Percentage of districts that adopt and implement national disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030.

7 Target 7:
Ensure mainstreaming of Disaster Risk Reduction in development planning in order to reduce the risk of loss and damage due to disaster.

Programme: Disaster Preparedness
Outcome indicator:
- Proportion of the National Planning Framework addressing Disaster Risk Reduction.
Priority Area 4: Enhancing Disaster Preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction at all levels

To implement the principle of “building back better” as espoused in the Sendai Framework, the country will have to deal with disaster risk reduction issues by directing its efforts at developmental challenges that create vulnerability and risk. These challenges include, among others, the regularization and upgrading of slums in urban areas and innovation for resilient infrastructure in rural areas. In essence, preparedness is a precursor to sound recovery and reconstruction. The country intends to achieve the following targets by 2030 in this priority area:

<table>
<thead>
<tr>
<th>No.</th>
<th>Target 1:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030.</td>
</tr>
</tbody>
</table>

**Compound Indicator:**
Damage to critical infrastructure attributed to disasters.

**Programme:** | **Outcome Indicator:**
---|---
Disaster Preparedness, Response and Mitigation | Number of destroyed or damaged health, educational and other critical infrastructure facilities attributed to disasters.

**Compound Indicator:**
Disruptions to basic services attributed to disasters.
<table>
<thead>
<tr>
<th>Programme:</th>
<th>Outcome Indicator:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disaster</td>
<td>Number of disruptions to educational, health and other basic services attributed to disasters.</td>
</tr>
<tr>
<td>Preparedness and</td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td></td>
</tr>
</tbody>
</table>

**2 Target 2:**

Increase the number of periodic testing of risk-informed preparedness plans and response, post-disaster recovery and reconstruction mechanisms at all levels.

<table>
<thead>
<tr>
<th>Programme:</th>
<th>Outcome Indicator:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disaster</td>
<td>Availability of risk informed preparedness, response and recovery plans.</td>
</tr>
<tr>
<td>Preparedness and</td>
<td></td>
</tr>
<tr>
<td>Response</td>
<td></td>
</tr>
</tbody>
</table>

**3 Target 3:**

Promote the uptake of risk insurance through climate risk pooling and other innovative insurance risk solutions.

<table>
<thead>
<tr>
<th>Programme:</th>
<th>Outcome Indicators:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disaster</td>
<td>Number of institutions offering climate related insurance products.</td>
</tr>
<tr>
<td>Preparedness</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Proportion of the total insurance portfolio dedicated to climate risks.</td>
</tr>
</tbody>
</table>
6. COORDINATION AND IMPLEMENTATION ARRANGEMENTS

"While Hyogo Framework called for broad platforms; the spirit of the Sendai framework is to call upon stakeholders to join the government in concerted efforts in reducing disaster risk" (Sendai 2015).

Coordination and Implementation

This framework shall be implemented in accordance with the existing legal and policy frameworks. The National Disaster Management Act No. 13 of 2010 vests all Disaster Risk Management (DRM) coordination activities under the Disaster Management and Mitigation Unit (DMMU) in the Office of the Vice President (OVP).

To enhance an all of society approach to the implementation of the activities in the DRM framework, all stakeholders (Government Line Ministries, UN Agencies, Development Partners, NGOs, INGOs, Faith and Community Based Organisations) as well as the private Sector must fully cooperate and support the established coordination mechanisms.

The overall timeframe for the implementation of the National Disaster Risk Management Framework is 13 years, from 2017 to 2030. However, this will be done in a phased manner in five year cycles for strategic purposes. Nonetheless, annual milestones in the logical framework are the basis of short term planning and execution of programmes and activities.

Resource Mobilization

It is the primary responsibility of Government to fund Disaster Risk Management programmes. In this regard, the National Disaster Relief Trust Fund was established to facilitate the financing of these programmes.
Although the current arrangement has served this purpose up until now, it has proved to be inadequate due to the financial constraints being faced by the country. There is therefore need to widen the sources of finance for DRM programmes. In this regard, the following are the possible future sources of financing:

- Contingency Funds
- Cooperating and Development Partners
- Faith Based and Charitable Organizations
- Insurance initiatives
- Statutory and Local Authority Levies
- Line Ministry Budgets
- NGOs and INGOs
- Private Sector
- UN Agencies

7. RESULTS-BASED MONITORING AND EVALUATION

At the National level, the monitoring of progress of implementation of programs and activities in the framework will be done both annually and in five year cycles based on the indicators outlined in the logical framework (Annex I). In order to achieve this, a Comprehensive Monitoring and Evaluation Framework will be developed. At the global level, reporting will be done bi-annually in accordance with requirements of the United Nations International Secretariat for Disaster Reduction (UNISDR).
# ANNEX 1: LOGICAL FRAMEWORK FOR THE NATIONAL DISASTER RISK MANAGEMENT

## Priority Area 1: Understanding Disaster Risk

<table>
<thead>
<tr>
<th>Target</th>
<th>Outcome Indicator</th>
<th>Programme</th>
<th>Activity</th>
<th>Planned Target</th>
<th>Annual Outputs</th>
<th>Output Indicator</th>
<th>Baseline</th>
<th>Timeline</th>
<th>Means of Verification</th>
<th>Stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1: Substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030</td>
<td>1.1.1 Number of provinces and districts that have a multi-hazard monitoring and forecasting systems</td>
<td>Disaster Preparedness</td>
<td>Development of risk surveillance and monitoring systems</td>
<td>8 District Risk profiles developed</td>
<td>District Risk profiles developed</td>
<td>Number of District Risk profiles developed</td>
<td>22(2016)</td>
<td>2017-2030</td>
<td>Hazard and Risk Maps and profiles</td>
<td>DMMU, PDMC and DDMCs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Design and develop provincial and district multi-hazard monitoring and forecasting Systems</td>
<td>1 provincial and 8 district multi-hazard monitoring and forecasting Systems designed and developed</td>
<td>Provincial and district multi-hazard monitoring and forecasting Systems design and developed</td>
<td>Number of provincial and district multi-hazard monitoring and forecasting Systems design and developed</td>
<td>0</td>
<td>2017-2030</td>
<td>Completion Reports and monitoring and forecasting Systems</td>
<td>DMMU, Zambezi River Authority, ZEMA, ZMD, MIBS, MoA, MoHID, MoH, MoWSD, MoLG, MoF, MoNDP, MoMMD, UN System, Academia</td>
</tr>
<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<td></td>
<td></td>
<td></td>
<td>Conduct research on indigenous knowledge and practices</td>
<td>1 Research in indigenous knowledge and practices conducted</td>
<td>Research in indigenous knowledge and practices conducted</td>
<td>Number of Research in indigenous knowledge and practices conducted</td>
<td>0(2015)</td>
<td>2017-2030</td>
<td>Research Reports</td>
<td>DMMU, Research Institutions, Universities, Traditional Organisations, MoCTA, Forestry Department</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Establish Emergency Operations Centres at national, provincial and district levels</td>
<td>9 Emergency Operations Centres at national, provincial and district levels established</td>
<td>Emergency Operations Centres at national, provincial and district levels established</td>
<td>Number of Emergency Operations Centres at national, provincial and district levels established</td>
<td>1(2015)</td>
<td>2017-2030</td>
<td>Emergency Operation Centres</td>
<td>DMMU, POLICE, MoH, RTSA, MARITIME, ZICTA</td>
</tr>
<tr>
<td>1.1.2</td>
<td>Number of people per 100,000 that are covered by early warning information through national, provincial, district and</td>
<td>Timely Disseminate early warning information</td>
<td>At least 50 percent of the population in an affected area are reached with early warning information</td>
<td>Population in the affected area reached by early warning information</td>
<td>Percentage of the population in the affected area reached by Early warning information</td>
<td>10% (2015)</td>
<td>2017-2030</td>
<td>Survey Reports</td>
<td>DMMU, ZMD, MIBS, MoA, MoHID, MoH, MoLF, MoWSEP, MoLG, MoF, MoNDP, MoMMD, UN System,</td>
<td></td>
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<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<tr>
<td>satellite dissemination mechanisms.</td>
<td></td>
<td></td>
<td></td>
<td>1 provincial and 8 districts early warning information dissemination mechanisms developed</td>
<td>Provincial and district early warning information dissemination mechanisms developed</td>
<td>Number of Early warning information dissemination mechanisms developed</td>
<td></td>
<td></td>
<td></td>
<td>DMMU, Zambezi River Authority, ZEMA, ZMD, MiBS, MoA, MoHID, MoH, MoWSGD, MoLG, MoF, MoNDP, MoMMD, UN System, Academia</td>
</tr>
<tr>
<td>1.1.3 Percentage of national, provincial, district and satellite structures having a plan to act on early warnings.</td>
<td></td>
<td></td>
<td></td>
<td>1 provincial and 8 district preparedness plans developed</td>
<td>Provincial and district preparedness plans developed</td>
<td>Number of provincial and district preparedness plans developed</td>
<td>0</td>
<td>2017-2030</td>
<td>preparedness plans, Maps and profiles</td>
<td>DMMU, ZVAC, PDMC, DDMC</td>
</tr>
<tr>
<td>1.1.4 Number of sectors that have accessible, understandable, usable and relevant disaster risk information available to the people at the national and local level.</td>
<td></td>
<td></td>
<td></td>
<td>1 stakeholder inventory</td>
<td>Stakeholder inventory undertaken</td>
<td># of Stakeholder inventory undertaken</td>
<td>0 (2015)</td>
<td>2017-2030</td>
<td>Stakeholder inventory reports</td>
<td>DMMU, ZVAC, PDMC, DDMC</td>
</tr>
<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<tr>
<td>1.1.5</td>
<td>Percentage of population exposed or at risk from disasters protected through pre-emptive evacuation following early warning.</td>
<td>Undertake pre-emptive evacuation of people at risk of disasters following early warning.</td>
<td>Pre-emptive evacuation of at least 50% of people at risk of disasters following early warning.</td>
<td>Pre-emptive evacuation of people at risk of disasters following early warning.</td>
<td>Percentage pre-emptive evacuation of people at risk of disasters following early warning.</td>
<td>60% (2007)</td>
<td>2017-2030</td>
<td>Response reports</td>
<td>DMMU, ZVAC, PDMC, DDMC</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters by 2030</td>
<td>Disaster Preparedness</td>
<td>Enforcement of building codes, safety standards and planning regulations</td>
<td>50% of approved proposed developments and non-compliant developments inspected</td>
<td>Proportion of resilient built structures</td>
<td>TBA</td>
<td>2017-2030</td>
<td>Inspection Reports</td>
<td>DMMU, MoA, MoHID, MoLNR, MoWS, MoLG, NCC</td>
<td></td>
</tr>
<tr>
<td>1.2.1</td>
<td>Percentage of deaths, missing persons and persons affected by disasters</td>
<td>Disaster Preparedness</td>
<td>Enforcement of building codes, safety standards and planning regulations</td>
<td>50% of approved proposed developments and non-compliant developments inspected</td>
<td>Proportion of resilient built structures</td>
<td>TBA</td>
<td>2017-2031</td>
<td>Impact Assessment Reports</td>
<td>DMMU, POLICE, MoH, RTSA, MARITIME</td>
<td></td>
</tr>
<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Annual Target</td>
<td>Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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</table>
| 1.2.2  | Number of beneficiaries on social safety nets whose livelihoods have improved | Disaster Response | Scaling up social safety net programmes in sectors | 10 % increase in the number of beneficiaries of social safety net programmes | Beneficiaries of Social safety nets scaled up | Percentage change in the number of beneficiaries on social safety nets | TBA | 2017-2030 | Programme implementation Reports | MoCDSS, MoA, MoLSS,
| 1.2.3  | Percentage of people accessing micro-insurance | Disaster Mitigation | Promotion of micro-insurance and risk pooling | 1 new climate related insurance product | Increased access to insurance and risk pulling promoted | Percentage of people accessing micro-insurance | TBA | 2017-2030 | Insurance records, survey reports | Insurance companies, MoF, DMMU, MoA,
| 1.3.1  | DRR incorporated in primary, secondary and tertiary curricula | Incorporate DRR Curricula | 1 Curriculum incorporated with DRR | Curricula incorporated with DRR | Number of Curricula incorporating DRR | 2 | 2017-2030 | Curricula | MoHE, MoGE, Curriculum Development Center, TEVETA,
| 1.3.2  | Number of educators (teachers and lecturers) who have acquired skills in DRR | DRR Capacity development for educators | 10% of relevant educators trained in DRR | Relevant educators trained in DRR | Proportion of Relevant educators trained in DRR | TBA | 2017-2030 | Survey and Training Reports | MoHE, MoGE, Curriculum Development Center, TEVETA, DMMU,

**Target 1.3**
Integrate DRR in primary, secondary and tertiary curricula, training systems with adequate resourcing and capacities
<table>
<thead>
<tr>
<th>Target</th>
<th>Outcome Indicator</th>
<th>Programme</th>
<th>Activity</th>
<th>Planned Annual Target</th>
<th>Outputs</th>
<th>Output Indicator</th>
<th>Baseline</th>
<th>Timeline</th>
<th>Means of Verification</th>
<th>Stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3.3</td>
<td>Number and type of DRR IEC materials being used</td>
<td>Development and distribution of DRR IEC materials in schools</td>
<td>Develop at least 3 DRR IEC Materials</td>
<td>DRR IEC materials developed and distributed in schools</td>
<td>Number of DRR IEC materials developed</td>
<td>30 (2015)</td>
<td>2017-2030</td>
<td>DRR IEC materials</td>
<td>DMMU, MIBS, ZICTA, Print and electronic media</td>
<td></td>
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<tr>
<td></td>
<td>10% of schools receive materials</td>
<td>DRR IEC materials received by Schools</td>
<td>Percentage of schools receiving DRR IEC materials</td>
<td>Percentage of schools receiving DRR IEC materials</td>
<td>0 (2015)</td>
<td>2017-2031</td>
<td>Distribution reports</td>
<td>DMMU, MIBS, Print and electronic media</td>
<td></td>
<td></td>
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</tbody>
</table>

**Priority Area 2: Strengthening Disaster Risk Governance to manage Disaster Risk**

<table>
<thead>
<tr>
<th>Target</th>
<th>Outcome Indicator</th>
<th>Programme</th>
<th>Activity</th>
<th>Planned Annual Target</th>
<th>Outputs</th>
<th>Output Indicator</th>
<th>Baseline</th>
<th>Timeline</th>
<th>Means of Verification</th>
<th>Stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1.1</td>
<td>Percentage of districts that adopt and implement DRR Preparedness</td>
<td>Development of district DRR strategies</td>
<td>8 district DRR strategies developed</td>
<td>District DRR strategies</td>
<td>Number of district DRR strategies developed</td>
<td>0</td>
<td>2017-2020</td>
<td>District DRR strategies</td>
<td>DMMU, DDMCs, NGOs, INGOs, DMCF</td>
<td></td>
</tr>
<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<tr>
<td>number of districts with disaster risk management strategies by 2020</td>
<td>implement disaster risk reduction strategies in line with the national strategy</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Implementation of Community based Disaster Risk Management (CBDRM)</td>
<td></td>
<td></td>
<td>8 districts implement CBDRM</td>
<td>Community DRR project developed</td>
<td>Percentage of districts that have implemented the Community based Disaster Risk Management (CBDRM) process.</td>
<td>22 (2016)</td>
<td>2017-2030</td>
<td>District reports</td>
<td>DMMU, PDMC, DDMCs and SDMCs</td>
</tr>
<tr>
<td>Target 2.2</td>
<td>Substantially enhance international cooperation to complement national actions for the implementation of this Framework by 2030.</td>
<td></td>
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<tr>
<td>2.2.1 Total official international support (ODA plus other official flows) for national DRR actions provided by multilateral agencies.</td>
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<tr>
<td>Disaster Preparedness</td>
<td>Engage with multilateral Development Agencies and INGOs and sign MoUs</td>
<td></td>
<td></td>
<td>1 multilateral MoU signed</td>
<td>Multilateral MoUs signed</td>
<td>Number of multilateral MoUs signed</td>
<td>1 (2015)</td>
<td>2017-2030</td>
<td>MoUs</td>
<td>DMMU, MoF, MoNDP, ICPs, MoFA, MoJ, AfDB, World Bank - IBRD, SADC, COMESA, NEPAD, GFDRR, GEF</td>
</tr>
<tr>
<td>2.2.2 Total official international support (ODA plus other official flows) for national DRR actions provided bilaterally.</td>
<td></td>
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<tr>
<td></td>
<td>Engage with strategic countries and sign MoU</td>
<td></td>
<td></td>
<td>1 bilateral MoU signed</td>
<td>Bilateral MoUs signed</td>
<td>Number of Bilateral MoUs signed</td>
<td>0</td>
<td>2017-2030</td>
<td>MoUs</td>
<td>DMMU, MoF, MoNDP, ICPs, MoFA, MoJ, AfDB, World Bank - IBRD, SADC, COMESA, NEPAD, GFDRR, GEF</td>
</tr>
<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<td></td>
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<td></td>
<td>Develop proposals to leverage financing</td>
<td>1 project proposal developed and implemented</td>
<td>DRR project implemented</td>
<td>Number of DRR projects implemented</td>
<td>1 (2015)</td>
<td>2017-2030</td>
<td>Project reports</td>
<td>DMMU, ICPs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Identify and engage strategic countries and sign MoUs</td>
<td>1 MoU signed</td>
<td>Signed MoU on technology transfer</td>
<td>Number of MoUs on technology transfer signed</td>
<td>0</td>
<td>2017-2030</td>
<td>MoUs on technology transfer</td>
<td>DMMU, MoJ, MoF, MoNDP, MoFA,</td>
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<td></td>
<td></td>
<td></td>
<td>Undertake exchange visits</td>
<td>1 visit undertaken</td>
<td>Visits undertaken</td>
<td>Number of visits undertaken</td>
<td>0</td>
<td>2017-2030</td>
<td>Visit reports</td>
<td>DMMU, MoFA</td>
</tr>
</tbody>
</table>

**Target 2.3**

**Substantially increase the number of networks or partnerships for knowledge management and capacity development, including specialized**

<p>|        |                   | Disaster Preparedness | Form and enhance local strategic alliances | 5 strategic alliances formed and enhanced | Local Strategic alliances formed | Number of strategic alliances formed and enhanced | 2 (2015) | 2017-2030 | MOUs signed and minutes of meetings | DMMU, NDMCF, ZVAC |
|        |                   | Form and enhance regional Strategic alliances | 4 strategic alliances formed and enhanced | Regional Strategic alliances formed | Number of regional strategic alliances formed and enhanced | 2 (2015) | 2017-2030 | Protocols and MoUs signed | DMMU, MoFA, MoJ, ICPs, SADC, AU, UNISDR |</p>
<table>
<thead>
<tr>
<th>Target</th>
<th>Outcome Indicator</th>
<th>Programme</th>
<th>Activity</th>
<th>Planned Target</th>
<th>Annual Outputs</th>
<th>Output Indicator</th>
<th>Baseline</th>
<th>Timeline</th>
<th>Means of Verification</th>
<th>Stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>centres and networks.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>DMMU, MoFA, MoI, Universities, UN-ITU, SMHI, UN-SPIDER, CIMC, Research Institutions</td>
</tr>
</tbody>
</table>

**Priority Area 3: Investing in Disaster Risk Reduction for Resilience**

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<thead>
<tr>
<th>Target</th>
<th>Outcome Indicator</th>
<th>Programme</th>
<th>Activity</th>
<th>Planned Target</th>
<th>Annual Output</th>
<th>Output Indicator</th>
<th>Baseline</th>
<th>Timeline</th>
<th>Means of Verification</th>
<th>Stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target 3.1: Substantially reduce national disaster mortality by 2030, aiming to lower average per 100,000 national mortality between 2020-2030 compared to 2005-2015</td>
<td></td>
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<td></td>
<td></td>
<td>DMMU, CSO, POLICE, RATSA, INDUSTRIES</td>
</tr>
<tr>
<td>3.1.1 Number of deaths attributed to disaster per 100,000 population</td>
<td></td>
<td>Disaster Preparedness</td>
<td>Create a disaster mortality data base</td>
<td>1 database created</td>
<td>Disaster mortality data base created</td>
<td>Disaster mortality Data base in place</td>
<td>0(2015)</td>
<td>2017-2019</td>
<td>Disaster mortality Data base in place</td>
<td>DMMU, CSO, POLICE, RATSA, INDUSTRIES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Review safety mechanisms and guidelines for technological hazards and engage the Mines Safety Department and the Department of Industry</td>
<td>10% of existing safety mechanisms and guidelines reviewed</td>
<td>Existing safety mechanisms and guidelines reviewed.</td>
<td>Number of safety mechanisms and guidelines reviewed.</td>
<td></td>
<td>0(2015)</td>
<td>2017-2019</td>
<td>Review Reports</td>
<td>DMMU, INDUSTRIES, MCTI, MNMD</td>
</tr>
<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
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<td>Means of Verification</td>
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<tr>
<td>Advocate for legislation to regulate marine transport</td>
<td>Legislation on marine transport</td>
<td>Legislation on marine transport</td>
<td>Number of legislation on marine transport enacted</td>
<td>0(2015)</td>
<td>2017-2020</td>
<td>Act of Parliament</td>
<td>DMMU, MoCT(MARITIME DEPT), MoJ, POLICE, ZA</td>
<td></td>
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<tr>
<td>Put in place Rescue teams in strategic areas</td>
<td>Rescue Teams established</td>
<td>Number of rescue Teams established</td>
<td>0 (2015)</td>
<td>2017-2028</td>
<td>Rescue Teams inventory</td>
<td>DMMU, Fire and Rescue Services, Ambulance Services, POLICE, ZA, ZNS, ERT,</td>
<td></td>
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<tr>
<td>Basic First Aid and Incident Command System training for disaster managers</td>
<td>25 Disaster Managers Trained</td>
<td>Basic First Aid and Incident Command System training conducted for Disaster managers</td>
<td>Number of Basic First Aid and Incident Command System training conducted for Disaster managers</td>
<td>0 (2015)</td>
<td>2017-2030</td>
<td>Training Report for Disaster Managers</td>
<td>DMMU, ZRCS, Disaster Managers, PDMCs, DDMCs</td>
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<tr>
<td>Basic First Aid and Incident Command System training for volunteers and communities in disaster prone areas</td>
<td>10 trainings conducted</td>
<td>Basic First Aid and Incident Command System training conducted</td>
<td>Number of Basic First Aid and Incident Command System trainings conducted</td>
<td>0 (2015)</td>
<td>2017-2030</td>
<td>First-aid training Reports and trainee inventory</td>
<td>DMMU, ZRCS, Communities, Volunteers</td>
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<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Annual Target</td>
<td>Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<tr>
<td>3.1.2 Number of missing persons attributed to disasters, per 100,000 population</td>
<td>Disaster Preparedness</td>
<td>Sensitization, development and updating of community registers in disaster prone areas</td>
<td>Equipment</td>
<td>Creation of lanes for emergency vehicles</td>
<td>200 kilometres of emergency lanes created in 4 cities (LSK, KT, ND, LSTONE)</td>
<td>Emergency lanes created</td>
<td>Number of kilometres of emergency lanes created</td>
<td>0 (2015)</td>
<td>2019 - 2030</td>
<td>Emergency lanes in place</td>
</tr>
<tr>
<td>3.1.2</td>
<td>Disaster Response</td>
<td>Undertake impact assessment (This will cover 3.1.2, 3.2.1, 3.2.2, 3.2.4, 3.3.1).</td>
<td>Impact assessment conducted</td>
<td>Impact assessment undertaken</td>
<td>Impact assessment undertaken</td>
<td>Number of impact assessment undertaken</td>
<td>TBA</td>
<td>2017-2030</td>
<td>Impact Assessment Report</td>
<td>DMMU, ZVAC Members, RTSA, Police,</td>
</tr>
<tr>
<td>3.1.2</td>
<td>Disaster Response</td>
<td>Undertake updates of disaggregated disaster mortality data for all incidents.</td>
<td>All incidents updated</td>
<td>Real time mortality data base</td>
<td>Number of updates done</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Data base</td>
<td>DMMU, ZVAC Members, RTSA, Police,</td>
<td></td>
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<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Target</td>
<td>Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
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<td>Disaster Response</td>
<td>Conduct regular evacuation drills for search and rescue teams and communities for disaster prone areas</td>
<td>1 evacuation drill for search and rescue teams and communities conducted</td>
<td>Evacuation drill for search and rescue teams and communities conducted</td>
<td>Number of evacuation drill for search and rescue teams and communities conducted</td>
<td>0 (2015)</td>
<td>2017-2030</td>
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<td></td>
<td></td>
<td>Disaster Response</td>
<td>Create a crowd sourcing mechanism to locate missing person due to disasters</td>
<td>1 crowd Sourcing mechanism created</td>
<td>Crowd Sourcing mechanism created</td>
<td>Number of crowd sourcing mechanisms created</td>
<td>0 (2015)</td>
<td>2017-2030</td>
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<td>Disaster Response</td>
<td>Create a crowd sourcing mechanism to locate missing person due to disasters</td>
<td>1 crowd Sourcing mechanism created</td>
<td>Crowd Sourcing mechanism created</td>
<td>Number of crowd sourcing mechanisms created</td>
<td>0 (2015)</td>
<td>2017-2030</td>
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<tr>
<td>Target 3.2: Substantially reduce the number of affected people nationally by</td>
<td>3.2.1 Number of injured or ill people attributed to disasters, per 100,000 population</td>
<td>Disaster Preparedness</td>
<td>Review and update building codes and standards for local authorities</td>
<td>One review meeting for building codes and standards for local authorities</td>
<td>Building codes and standards for local authorities reviewed and updated</td>
<td>Building codes and standards for local authorities reviewed</td>
<td>TBA</td>
<td>2018-2030</td>
<td>Reports on reviewed building codes and standards</td>
<td>MLG, MoHID, MoWS Local Authorities, DMMU, NCC,</td>
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<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<td>2030, aiming to lower the average national figure per 100,000 between 2020-2030 compared to 2005-2015</td>
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<tr>
<td></td>
<td>Disaster Response</td>
<td>Enforce building codes and standards</td>
<td>4 coordination meetings on building codes and standards held with local authorities</td>
<td>Coordination meeting held</td>
<td>Number of coordination meetings held on building codes and standards</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Minutes of meetings and reports.</td>
<td>MLG, MoHID, MoWS Local Authorities, DMMU, NCC,</td>
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<tr>
<td></td>
<td>Disaster Response</td>
<td>Evacuation of people from disaster areas</td>
<td>All at risk people evacuated</td>
<td>All people at risk evacuated</td>
<td>Number of people evacuated</td>
<td>TBA</td>
<td>2017 - 2030</td>
<td>Evacuation and impact assessment reports</td>
<td>DMMU, Fire and Rescue Services, Ambulance Services, POLICE, ZA, ZNS, ERT</td>
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<tr>
<td></td>
<td>Disaster Preparedness</td>
<td>Create a database for people living in risky slums and unplanned settlements</td>
<td>1 Database for people living in risky slums and unplanned settlements created</td>
<td>Database for people living in risky slums and unplanned settlements created</td>
<td>Number of people on the database for in risky slums and unplanned settlements created</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Database</td>
<td>DMMU, CSO, MLGH</td>
<td></td>
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<tr>
<td></td>
<td>Disaster Response</td>
<td>Upgrade slums and unplanned settlements</td>
<td>1 slum and unplanned settlement upgraded</td>
<td>Slum and unplanned settlement upgraded</td>
<td>Number of slums and unplanned settlements upgraded</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Project completion reports</td>
<td>Local Authorities, DMMU, MoHID, MoWS</td>
<td></td>
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<tr>
<td></td>
<td>Disaster Response</td>
<td>Carry out Community led initiatives to rehabilitate dwellings.</td>
<td>10 dwellings rehabilitated</td>
<td>Dwellings rehabilitated</td>
<td>Number of dwellings rehabilitated</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Project completion reports</td>
<td>DMMU, Communities, NGOs, INGOs, MoHID, Academia</td>
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<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<tr>
<td>3.2.3</td>
<td>Number of people whose destroyed dwellings were attributed to disasters</td>
<td>Disaster Response</td>
<td>Undertaking impact assessment</td>
<td>All impact assessments undertaken</td>
<td>Impact assessment reports</td>
<td>Number of impact assessment reports</td>
<td>TBA</td>
<td>2017-2030</td>
<td>Impact Assessment Report</td>
<td>DMMU, ZVAC, Local Authorities, DDMCs</td>
</tr>
<tr>
<td>3.2.4</td>
<td>Number of people whose livelihoods were disrupted or destroyed, attributed to disasters</td>
<td>Disaster Preparedness</td>
<td>Promote sustainable livelihood diversification</td>
<td>4 Sensitisation meetings on sustainable livelihood diversification</td>
<td>Sensitisation meetings held</td>
<td>Number of Sensitisation meetings on sustainable livelihood diversification held</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Reports</td>
<td>MoA, DMMU, MCDSS</td>
</tr>
<tr>
<td></td>
<td>Disaster Response</td>
<td>Provide relief (Food and non-food items)</td>
<td>All relief provided.</td>
<td>Relief (food and Non-food) provided.</td>
<td>Quantity of relief provided.</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Quartely, Annual and distribution reports</td>
<td>DMMU, FRA, NGOs, UN Agencies, FBOs, Partners</td>
<td></td>
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<td></td>
<td>Disaster Recovery</td>
<td>Implement livelihood recovery projects</td>
<td>1 livelihood recovery project</td>
<td>Livelihood recovery projects implemented</td>
<td>Number of livelihood recovery projects implemented</td>
<td>1 (2012)</td>
<td>2017-2030</td>
<td>Project completion reports</td>
<td>AfDB, DMMU, NDMCF, World Bank</td>
<td></td>
</tr>
<tr>
<td>Target 3.3</td>
<td>Reduce direct disaster economic loss in relation to national gross domestic product</td>
<td>Disaster Preparedness</td>
<td>Promote water harvesting technologies/interventions</td>
<td>1 water harvesting technologies/interventions promoted</td>
<td>Water harvesting technologies/interventions promoted</td>
<td>Number of water harvesting technologies/interventions promoted</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Water harvesting technology being used.</td>
<td>DMMU, DWA, MoLGH, MoWDSEP</td>
</tr>
<tr>
<td>3.3.1</td>
<td>Direct agricultural loss attributed to disasters.</td>
<td>Pest and disease surveillance for crops</td>
<td>1 surveillance for crops fisheries, and</td>
<td>Surveillances for crops fisheries, and</td>
<td>Number of surveillances for crops fisheries, and</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>Surveillance Reports,</td>
<td>DMMU, MOH, MoA</td>
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<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
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<td>Means of Verification</td>
<td>Stakeholders</td>
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<td>(GDP) by 2030.</td>
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<td>livelihood and livestock</td>
<td>livestream done</td>
<td>livestock done</td>
<td>crops livelihood and livestock done</td>
<td>0 (2015)</td>
<td>2017-2030</td>
<td>Quarterly Reports</td>
<td>DMMU, PIA, CPs ZNFU</td>
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<tr>
<td></td>
<td>Promotion of risk insurance</td>
<td></td>
<td>Risk insurance information disseminated once</td>
<td>Risk insurance information disseminated</td>
<td>Number of farmers reached</td>
<td>0 (2015)</td>
<td>2017-2030</td>
<td>Activity reports</td>
<td>DMMU, PIA, CPs ZNFU</td>
<td></td>
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<tr>
<td></td>
<td>Disaster Response</td>
<td>Disease and pest control</td>
<td>All diseases and pests' outbreaks controlled</td>
<td>Diseases and pests' outbreaks controlled</td>
<td>Number of diseases and pest outbreaks controlled</td>
<td>0 (2015)</td>
<td>2017-2030</td>
<td>Activity reports</td>
<td>MoA, DMMU</td>
<td></td>
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<tr>
<td></td>
<td>3.3.2 Direct economic loss to all other damaged or destroyed productive assets attributed to disasters</td>
<td>Disaster Preparedness</td>
<td>Promotion of risk insurance</td>
<td>1 Sensitisation meetings on Risk insurance conducted</td>
<td>Sensitisation meetings on Risk insurance conducted</td>
<td>Number of Risk insurance sensitisation meetings</td>
<td>0 (2015)</td>
<td>2017-2030</td>
<td>Quarterly reports, Annual Reports and sensitisation meetings reports</td>
<td>DMMU, Insurance Companies, Industries and Communities</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Digitise and incorporate valuation roll in disaster GIS database</td>
<td>one valuation roll digitalised and updated</td>
<td>Digitalised and updated valuation roll</td>
<td>Number of valuation rolls updated</td>
<td>TBA</td>
<td>2017-2030</td>
<td>GIS database</td>
<td>DMMU, Local Authorities, Government Valuation Department</td>
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<td>Acquisition of fire and rescue equipment</td>
<td>10 sets of fire and rescue equipment</td>
<td>Fire and rescue equipment procured</td>
<td>Number of fire and rescue equipment</td>
<td>TBA</td>
<td>2017-2030</td>
<td>Sets of fire and rescue</td>
<td>Local Authorities, DMMU, Fire and</td>
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<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<td></td>
<td>Disaster Response</td>
<td>Undertake impact assessment (This will cover 3.3.3 and 3.3.5).</td>
<td>All impact assessments undertaken</td>
<td>Impact assessment undertaken</td>
<td>Number of impact assessments undertaken</td>
<td>1 (2015)</td>
<td>2018 - 2030</td>
<td>Activity reports</td>
<td>Rescue Services, Police, ZAF</td>
</tr>
<tr>
<td>3.3.3</td>
<td>Direct economic loss in the housing sector attributed to disaster</td>
<td>Disaster Preparedness</td>
<td>Promote housing insurance</td>
<td>1 Sensitisation meetings on housing insurance conducted</td>
<td>Sensitisation meetings on housing insurance conducted</td>
<td>Number of housing insurance sensitisation meetings</td>
<td>0 (2015)</td>
<td>2017 - 2020</td>
<td>Quarterly reports, Annual Reports</td>
<td>DMMU, Insurance Companies</td>
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<td>Disaster Response</td>
<td>Undertake impact assessment</td>
<td>All impact assessments undertaken</td>
<td>Impact assessment undertaken</td>
<td>Number of impact assessments undertaken</td>
<td>1 (2015)</td>
<td>2018 - 2030</td>
<td>Activity reports</td>
<td>Local Authorities, DMMU, Fire and Rescue Services, Police</td>
</tr>
<tr>
<td>3.3.4</td>
<td>Direct economic loss resulting from damaged or destroyed critical infrastructure attributed to disasters (roads, bridges, clinics, hospitals, schools, etc)</td>
<td>Disaster Preparedness</td>
<td>Incorporate information of Heritage Sites to the Disaster GIS database</td>
<td>All Heritage Sites incorporated and updated on the Disaster GIS database</td>
<td>GIS Database updated</td>
<td>Number of updates on the GIS Database</td>
<td>0 (2015)</td>
<td>2017 - 2030</td>
<td>GIS database</td>
<td>DMMU, Tourism, Arts and Culture</td>
</tr>
<tr>
<td>Target 3.4: Substantially expand the scope and increase the number of sources for domestic financing in DRR;</td>
<td>3.4.1 Number of established DRR domestic financing other than the Treasury</td>
<td>Disaster Preparedness</td>
<td>Review the DM Act. No. 13 of 2010 with a view to broaden resource mobilization avenues</td>
<td>DM Act reviewed</td>
<td>DM Act reviewed</td>
<td>Amended DM Act</td>
<td>0 (2015)</td>
<td>2017 - 2020</td>
<td>DM Act</td>
<td>DMMU, MoJ, MNDP, Parliament, MoFA</td>
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<td>Digitise and incorporate information on proportion of urban and rural population living in adequate and decent housing</td>
<td>Disaster Preparedness</td>
<td>Disaster GIS Database will be updated with Housing information</td>
<td>Number of Housing Information updates</td>
<td>0</td>
<td>2017-2030</td>
<td>GIS database</td>
<td>DMMU, Local Authorities, Government Valuation Department, CSO</td>
</tr>
<tr>
<td>Target 3.5: Ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums</td>
<td>3.5.1 Proportion of urban and rural population living in adequate and decent housing</td>
<td>Disaster Preparedness</td>
<td>All information on proportion of urban and rural population living in adequate housing incorporated into the disaster GIS database</td>
<td>Disaster GIS Database will be updated with Housing information</td>
<td>Number of Housing Information updates</td>
<td>0</td>
<td>2017-2030</td>
<td>GIS database</td>
<td>DMMU, Local Authorities, Government Valuation Department, CSO</td>
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<td>Identify alternative sources of financing</td>
<td>Alternative sources of financing actualised</td>
<td>Alternative sources of financing actualised</td>
<td>Number of alternative sources of financing</td>
<td>TBA</td>
<td>2017 - 2030</td>
<td>Financial Reports</td>
<td>DMMU, MoFA, MoF, MoNDP, MoJ, ICPs</td>
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<tr>
<td>Target</td>
<td>Outcome Indicator</td>
<td>Programme</td>
<td>Activity</td>
<td>Planned Target</td>
<td>Annual Outputs</td>
<td>Output Indicator</td>
<td>Baseline</td>
<td>Timeline</td>
<td>Means of Verification</td>
<td>Stakeholders</td>
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<td><strong>Target 3.6:</strong> Strengthen resilience and adaptive capacity of communities and the environment to climate related hazards and natural disasters at all levels.</td>
<td>3.6.1 Districts implementing disaster risk reduction projects</td>
<td>Disaster Preparedness</td>
<td>Undertake Community Based Disaster Risk Management</td>
<td>Undertake Community Based Disaster Risk Management in 8 districts</td>
<td>CBDRM undertaken</td>
<td>Number of `CBDRM undertaken</td>
<td>22 (2016)</td>
<td>2017 - 2030</td>
<td>CBDRM reports, Preparedness plans, DRR Project documents</td>
<td>DMMU, DDMCs, NGOs and INGOs</td>
</tr>
<tr>
<td><strong>Target 3.7:</strong> Ensure mainstreaming of DRR in Development planning in order to reduce the risk of loss and damage due to disaster</td>
<td>3.7.1 Proportion of the national planning framework addressing DRR</td>
<td>Disaster Preparedness</td>
<td>Facilitate the mainstreaming of DRR in the National Development Plan</td>
<td>At least 3 sectors mainstream DRR in the National Development Plan</td>
<td>DRR mainstreamed in the National Development Plan</td>
<td>Number of sectors in the National Development Plan that mainstream DRR</td>
<td>1 (2013)</td>
<td>2017-2021</td>
<td>Development Plan</td>
<td>DMMU, MoNDP, MoF</td>
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</tbody>
</table>
### Priority Area 4: Enhancing Disaster Preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction at all levels

<table>
<thead>
<tr>
<th>Target</th>
<th>Outcome Indicator</th>
<th>Programme</th>
<th>Activity</th>
<th>Planned Target</th>
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<th>Means of Verification</th>
<th>Stakeholders</th>
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<tbody>
<tr>
<td>Target 4.1: Substantially reduce disaster damage to critical infrastructure and disruption of basic services, among them health and educational facilities, including through developing their resilience by 2030.</td>
<td>4.1.1 Number of destroyed or damaged health, educational and other critical infrastructure facilities attributed to disaster</td>
<td>Disaster Response</td>
<td>Undertake impact assessment</td>
<td>All impact assessments undertaken</td>
<td>Impact assessment undertaken</td>
<td>Number of impact assessments undertaken</td>
<td>1 (2015)</td>
<td>2018 - 2030</td>
<td>Activity reports</td>
<td>Local Authorities, DMMU, Fire and Rescue Services, Police</td>
</tr>
<tr>
<td>4.1.2 Number of disruptions to educational, health and other basic services attributed to disasters</td>
<td>Construction of safe havens in strategic location</td>
<td>Disaster Preparedness</td>
<td>Preposition emergency school tents and requisites</td>
<td>Regional Offices stockpile 10 emergency school tents and requisites</td>
<td>Emergency school tents and requisites prepositioned</td>
<td>No. of emergency school tents and requisites</td>
<td>12 (2015)</td>
<td>2030</td>
<td>Stores reconciliation reports</td>
<td>DMMU, UN, NGOs</td>
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<td>Target</td>
<td>Outcome Indicator</td>
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<td>Planned Target</td>
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<td></td>
<td></td>
<td>Disaster Response</td>
<td>Establishment of DRR centres and stock piling emergency supplies</td>
<td>1 DRR centre established and equipped</td>
<td>DRR centre established and equipped</td>
<td>Number of DRR centres established and equipped</td>
<td>0 (2016)</td>
<td>2017-2030</td>
<td>DRR Centres</td>
<td>DMMU, MoL, Local Authority, MoHID</td>
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<td></td>
<td></td>
<td>Disaster Response</td>
<td>Deployment of response teams</td>
<td>Response teams deployed to all incidents</td>
<td>Response teams deployed</td>
<td>Number of Response teams deployed</td>
<td>0(2015)</td>
<td>2017-2030</td>
<td>Reports</td>
<td>DMMU, POLICE, ZA, MoH, Fire and Rescue Services, ERT</td>
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<tr>
<td><strong>Target 4.2:</strong> Increase the number of periodic testing of risk-informed preparedness plans and response, post-disaster recovery and reconstruction mechanisms at all levels;</td>
<td></td>
<td>Disaster Preparedness</td>
<td>Undertake regular simulation exercises</td>
<td>1 national simulation exercise undertaken</td>
<td>simulation exercise conducted</td>
<td>Number of simulation exercises</td>
<td>1 (2016)</td>
<td>2017-2030</td>
<td>Simulation Reports</td>
<td>ZVAC, DMMU, UN, Line Ministries, DDMCs, Communities</td>
</tr>
<tr>
<td>4.2.1</td>
<td>Availability of risk informed preparedness, response and recovery plans</td>
<td>Disaster Response and Recovery</td>
<td>Activation of response plans</td>
<td>1 response plan activated</td>
<td>Response plan activated</td>
<td>Number of Response plans activated</td>
<td>1(2015)</td>
<td>2017-2030</td>
<td>Reports</td>
<td>DMMU, MoA, MoWDSEP, MoLG, MoHID</td>
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<td>Planned Target</td>
<td>Annual Outputs</td>
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<tr>
<td><strong>Target 4.3:</strong> Promote the uptake of risk insurance through climate risk pooling and other innovative insurance risk solutions.</td>
<td>4.3.1 Number of institutions offering climate related insurance products</td>
<td>Disaster Preparedness</td>
<td>Undertake an inventory of institutions that offer climate related insurance products</td>
<td>1 inventory of institutions that offer climate related insurance products undertaken</td>
<td>Inventory of institutions that offer climate related insurance products undertaken</td>
<td>Number of inventory of institutions that offer climate related insurance products undertaken</td>
<td>0 (2015)</td>
<td>2018</td>
<td>Activity Report</td>
<td>DMMU, PIA, ZNFU</td>
</tr>
<tr>
<td></td>
<td>4.3.2 Proportion of the total insurance portfolio dedicated to climate risks</td>
<td>Promotion of climate risk insurance in communities</td>
<td>20 community sensitization meetings in communities</td>
<td>Sensitization meetings undertaken</td>
<td>No. Sensitization meetings undertaken</td>
<td></td>
<td>2015</td>
<td>2030</td>
<td>Reports</td>
<td>DMMU, PDMCs, DDMCs</td>
</tr>
</tbody>
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