



**REPUBLIC OF MALAWI**

# **National Disaster Recovery Framework**

**Building Back a Disaster-Affected Malawi Better and Safer**

**Office of the Vice President**

**Department of Disaster Management Affairs**

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## Foreword

The floods that Malawi experienced in early 2015 were the worst in decades. The scale of the floods was such that His Excellency Professor Arthur Peter Mutharika, President of the Republic of Malawi, declared 15 districts as disaster areas, and, on the recommendation of Parliament, 2 more districts were included. The impact was far-reaching, directly affecting 1.1 million people and destroying crops, property, and public infrastructure. The humanitarian aspect of the disaster required substantial investment and effort by different actors to address the immediate needs of those affected, including provision of relief items, search and rescue, and temporary shelter.

The historic 2015 floods were followed by devastating drought that affected more than 6.5 million people in the 2015/16 season. In response to the drought, the State President declared a state of disaster in April 2016, in 24 of Malawi's 28 districts. The Government of Malawi (GoM), in collaboration with national and international partners, provided emergency relief. With support from the World Bank, the European Union, and the United Nations, Government conducted a comprehensive post-disaster needs assessment (PDNA) with the aim of assessing the impact of the drought and to build resilience to future risks. The PDNA report has identified not only damages and losses but also multi-sectoral recovery needs and strategies aimed at building long-term resilience. More than 50 percent of the recovery needs are associated with food security.

With a high level of poverty, rapid population growth, and climate change, the country should brace itself for more disasters. Although Malawi faces disasters every year, the country has never developed a comprehensive framework to holistically address the impact of such disasters. An early recovery framework was developed in 2008 following floods in 13 districts, but it was not informed by an appropriate PDNA, and provided only early recovery direction without comprehensively detailing the necessary post-disaster recovery interventions.

In view of this, the GoM, through the leadership of the Department of Disaster Management Affairs, initiated processes for the development of a National Disaster Recovery Framework (NDRF) with technical support from the United Nations, the World Bank, and the Global Facility for Disaster Reduction and Recovery, with funding from the Africa Caribbean Pacific-European Union programme. The NDRF has been developed to guide and co-ordinate recovery and reconstruction efforts for current and future disasters. Initiated following the 2015 floods, the NDRF acts an extension to the PDNA for supporting recovery planning and implementation. It establishes a systematic framework for operationalising recovery needs, prioritising the implementation of recovery interventions, and guiding the allocation of recovery investments across short-term humanitarian needs and medium- to long-term reconstruction in alignment with national policies and laws.

Following the 2015/16 drought, the GoM determined that the scope of the NDRF should be revised beyond the floods to accommodate recovery and reconstruction needs identified in the 2015/16 Drought PDNA. Additionally, it was seen as critical to building disaster resilience that the NDRF established national mechanisms for co-ordination, financing, monitoring and evaluation, and development and implementation of the NDRF for ongoing and future disasters. It is critical to understand that the government alone cannot restore the assets, livelihoods, and infrastructure that were affected by the disaster. While recovery is supported by development partners, non-governmental and civil society organisations, and affected communities, it is important that efforts of all actors align with a central

framework to ensure recovery is guided by a core set of principles, co-ordinated in a manner that avoids duplication or creates gaps, and targeted based on prioritised needs. This will help avoid the creation of new forms of vulnerabilities, and make sure that all recovery efforts help build back better and smarter.

**Saulos Klaus Chilima, PhD**  
**Vice President of the Republic of Malawi and**  
**Minister Responsible for Disaster Management Affairs**

## Acknowledgements

First, I would like to acknowledge the contribution made by the national sectors to the development of the Drought Disaster Recovery Framework and to the updating of the National Disaster Recovery Framework (NDRF). In this respect, I would like to recognise the contribution made by the Inter-Departmental Recovery Prioritisation Taskforce, which led the prioritisation of recovery interventions cross-sectorally and geo-spatially. Contributions from the national sectors were also made through consultations with District Councils.

At the national level, various sectoral ministries and departments made their contributions to the drought recovery framework. These include the Ministry of Agriculture, Irrigation and Water Development; the Ministry of Natural Resources, Energy and Mining; the Ministry of Health; the Ministry of Education, Science and Technology; the Department of Climate Change and Meteorological Services; the Ministry of Industry, Trade and Tourism; the Southern and Northern Region Water Boards; and the Ministry of Finance, Economic Planning and Development. The contribution by a number of non-governmental organisations, the private sector, and development partners, in various forms at the consultative level, was also crucial during the development of the drought recovery framework and updating of the NDRF. The contribution of the joint technical team on the National Resilience Plan cannot go unmentioned. A special mention should also be made to the World Bank, the Global Facility for Disaster Reduction and Recovery, and the United Nations for their critical role in providing financial and technical support for developing the NDRF. Also important is the funding for the development of the NDRF, which was provided by the European Union in form of an African Caribbean Pacific-European Union grant after the 2015 floods.

Particular mention should also be made of the drafting task team for the consolidation and revision of the NDRF and the final drafting of the drought recovery framework. The drafting task team comprised officials of the Department of Disaster Management Affairs, the Department of Climate Change and Meteorological Services, the Department of Crops and Research, the Department of Land Resources, the Department of Water Resources Management, and the Department of Water Supply and Sanitation, and received technical support from the World Bank.

I would like to express my sincere appreciation and profound gratitude to all the institutions that were involved, in one way or another, in revising the NDRF and developing the drought recovery framework. The development of the recovery framework would not have been possible without their involvement and support.

**Clement Chinthu-Phiri**  
**Secretary and Commissioner for Disaster Management Affairs**



## Abbreviations and Acronyms

ACPC	Area Civil Protection Committee
ADC	Area Development Committee
ADDRMO	Assistant District Disaster Risk Management Officer
CHAM	Christian Health Association of Malawi
CPC	Civil Protection Committee
CSO	Civil Society Organisation
DARS	Department of Agriculture Research Services
DC	District Council
DCCMS	Department of Climate Change and Meteorological Services
DCPC	District Civil Protection Committee
DEC	District Executive Committee
DEM	District Education Manager
DoDMA	Department of Disaster Management Affairs
DP	Development Partner
DRF	Disaster Recovery Framework
DRM	Disaster Risk Management
DRR	Disaster Risk Reduction
DTO	District Trade Officer
EU	European Union
EWS	Early Warning System
GoM	Government of Malawi
IDRPT	Inter-Departmental Recovery Prioritisation Taskforce
IEC	Information Education and Communication
M&E	Monitoring and Evaluation
MDAs	Ministries, Departments, and Agencies
MDF	Malawi Defence Force
MGDS	Malawi Growth and Development Strategy
MoEST	Ministry of Education, Science and Technology
MoFEPD	Ministry of Finance, Economic Planning and Development
MoGCDSW	Ministry of Gender, Child Development and Social Welfare
MoH	Ministry of Health
MoTI	Ministry of Trade and Industry
MoTPW	Ministry of Transport and Public Works
MPS	Malawi Police Service
MT	Metric Tonne(s)
MVAC	Malawi Vulnerability Assessment Committee
MWK	Malawi Kwacha
NDPRC	National Disaster Preparedness and Relief Committee
NDPRTC	National Disaster Preparedness and Relief Technical Committee
NDRF	National Disaster Recovery Framework
NGO	Non-Governmental Organisation
NRP	National Resilience Plan

PDNA	Post-Disaster Needs Assessment
RWH	Rainwater Harvesting
SGR	Strategic Grain Reserve
SO	Strategic Objective
TA or T/A	Traditional Authority
US\$	United States Dollar
VCPC	Village Civil Protection Committee
VDC	Village Development Committee
WASH	Water, Sanitation, and Hygiene
WB	World Bank

# Executive Summary

## Development Process and Background Context

In just the last 36 years, Malawi has experienced eight major droughts, affecting more than 24 million people<sup>1</sup>. The impact, frequency, and spread of drought in Malawi have intensified in the past four decades and are likely to worsen with climate change, compounded by other factors, such as population growth and environmental degradation. In response to unprecedented flooding in 2015 and the prolonged drought in 2015/16, the Government of Malawi (GoM), with technical and financial support from the European Union (EU), the United Nations, and the World Bank (WB), embarked on a process to increase recovery readiness through the development of a National Disaster Recovery Framework (NDRF). The NDRF was designed in alignment with Malawi's national disaster risk management and recovery policies and strategies. It serves both strategic and operational purposes in the management of a disaster recovery programme. The NDRF was developed in response to the 2015 floods and has evolved to also guide 2015/16 drought recovery efforts under a common framework, providing oversight to implementation and monitoring arrangements.

Included as part of the Department of Disaster Management Affairs's (DoDMA) initial technical assistance request with the 2015 floods post-disaster needs assessment (PDNA), the NDRF establishes a framework for guiding, monitoring, and co-ordinating prioritised and sequenced recovery. Led by DoDMA, the NDRF was developed through an extensive consultative process involving participants from key sectors at the national level, as well as district councils (DCs) in all declared disaster areas. An Inter-Departmental Recovery Prioritisation Taskforce (IDRPT) was established to define cross-sectoral priorities, identify programmatic implementation dependencies to other sectors, and identify geo-spatial priorities.

The NDRF is a living document for guiding recovery and reconstruction. It provides a central framework for managing recovery planning, co-ordination, implementation, financing, and monitoring and evaluation (M&E) processes across current and future disasters. Cross-cutting elements, such as institutional arrangements, guiding principles, M&E processes, and financing and accountability mechanisms, are standardised to govern all NDRF disaster responses. After a disaster, the NDRF can be updated to address disaster-specific recovery needs, costs, and priorities. Disaster-specific sections of the NDRF are governed by the central framework of the NDRF, but also provide guidance on cross-sectoral and geo-spatial priorities and phased financial needs to a specific disaster event.

## Vision and Goal of the NDRF

Recovery efforts defined within the NDRF are guided by a central vision and goal. Following the 2015 floods, an initial vision and goal were determined; these have been updated in response to the 2015/16 drought. A common recovery vision and goal that cuts across both disasters is critical to ensure that the NDRF can effectively co-ordinate common multi-stakeholder efforts and strengthen resilience of vulnerable populations.

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<sup>1</sup> Malawi Drought 2015/16 Post-Disaster Needs Assessment.

**Vision:** A nation that is food secure and resilient to natural disasters, that can rapidly recover from drought and flood shocks, while fostering sustainable economic growth and ensuring equitable, inclusive, and participatory reconstruction that builds back better.

**Goal:** The long-term goal of the NDRF is to sustainably improve the resilience of communities affected by the floods and drought, support prolonged food security of vulnerable populations, and restore the livelihoods of disaster-affected communities.

### Alignment with National Policies and Strategies

The NDRF was developed in conformity with national legislation, policies, and strategies. It is aligned with all Malawi statutes governing or supporting disaster risk management and recovery and all sector and thematic legislation policies and strategies with which disaster recovery is associated. The NDRF is aligned but not limited to the following key frameworks: the National Disaster Preparedness and Relief Act; Malawi Growth and Development Strategy II (MGDS-II); and the National Disaster Risk Management Policy.

The Disaster Preparedness and Relief Act directly governs the NDRF, as it provides a comprehensive, integrated, and co-ordinated framework for disaster risk management (DRM). The act is aimed at preventing or reducing the risk of disasters, mitigating the severity of disasters, strengthening disaster preparedness, and providing rapid and effective management of post-disaster response and recovery. These elements are essential to developing and implementing the NDRF and to guiding efficient and effective recovery. Furthermore, the NDRF was developed in alignment with National Disaster Risk Management Policy objectives to strengthening capacities for effective preparedness, response, and recovery. The NDRF respects and aligns with the institutional arrangements for DRM stipulated in the policy.

Post-disaster recovery is always implemented with national development goals in mind and therefore must conform to the MGDS. In alignment with the MGDS-II, the NDRF will ensure recovery activities are planned to overcome the challenges of climate change, population growth, and environmental degradation and to meet the development goal of addressing disaster risks in a way that improves the socio-economic development of the country.

### Institutional Arrangements

Central oversight of the NDRF will be provided by National Disaster Preparedness and Relief Committee (NDPRC), while DoDMA will lead day-to-day monitoring and co-ordination of recovery and reconstruction programmes. Close co-ordination will be maintained with ministries, departments, and agencies (MDAs) that are responsible for defining prioritised sector recovery frameworks and for overseeing the implementation of recovery interventions in their sectors. The identification of local recovery projects will be led by DCs and local government, while MDAs will guide resource allocations for recovery through annual budget allocations, as well as by directing financial assistance provided by development partners (DPs) and non-governmental organisations (NGOs) to priority sector recovery interventions.

The National Disaster Preparedness and Relief Technical Committee (NDPRTC) is responsible for inter-cluster co-ordination, and plays an important role in ensuring multi-stakeholder engagement for development and review of NDRF activities across sectors. As the custodian of the NDRF, DoDMA will need to regularly co-ordinate with the NDPRTC to communicate evolving recovery needs and guide

recovery implementation. DPs, civil society organisations (CSOs), and NGOs play key roles in mobilising financing for recovery and supporting implementation. DoDMA will work with these actors, through the NDPRTC, to capitalise on institutional relationships, knowledge, and capacities to support recovery programmes.

For purposes of recovery, Government has set up the IDRPT. The taskforce is called upon after a disaster to help facilitate the articulation of a recovery vision, objectives, timeline, and scope of a new recovery framework. The IDRPT plays a central role in this regard, supporting the identification, prioritisation, and short- to long-term phasing of recovery strategies and interventions across sectors and geo-spatial locations. The IDRPT also plays a critical role in co-ordinating, monitoring, and reporting NDRF implementation through regular IDRPT meetings and consultations with district officers.

### Financial Mobilisation and Monitoring and Evaluation

There are five components to be considered in the management of financing for the NDRF:

- Forecasting financial resources
- Quantifying the economic costs of the disaster
- Identifying and mobilising financial resources for recovery
- Developing and approving recovery budgets
- Setting up administrative arrangements to disburse funds and track and report on expenditures and results

The Ministry of Finance, Economic Planning and Development (MoFEPD) is responsible for leading these activities, and will co-ordinate with DoDMA, MDAs, DCs, DPs, and CSOs and NGOs to mobilise and guide resource allocations to priority recovery areas.

It is important to maintain high levels of transparency in the use of recovery funds. This will be ensured through the development of an accountability framework, which will support monitoring of expenditures and results, reporting on progress within Government and to the affected population and the general public, mechanisms to prevent corruption, and systems for grievance redressal.

This will need to be complemented by a robust M&E plan that will track resource mobilisation and distribution and that will assess progress, co-ordination, and impact of recovery interventions. This system will be implemented in a manner that cuts across disasters and monitors recovery of both drought and flood responses in an integrative manner. Key institutions responsible for monitoring NDRF implementation are MoFEPD, DoDMA, MDAs relevant to the disaster, DCs, DPs, and CSOs and NGOs. An effective M&E system for NDRF implementation should be able to track the physical progress of recovery activities, track results for other recovery activities outside the scope of reconstruction, provide regular and comprehensive information on allocation and disbursement of funds, provide data for evaluating social and economic impacts of recovery programmes, and inform an outcome-based mid-term review of the recovery implementation. MDAs currently use various tools for monitoring project activities. DoDMA is the responsible authority for centrally monitoring recovery progress and effectiveness, and will work with MDAs to adapt existing systems and co-ordinate inputs for M&E. The M&E system will comprise a management information system that includes a database that will keep track of all programme activities and financial transactions and that will monitor implementation progress that includes physical and electronic records and reports for trainings, workshops, and field visits.

## Updating the NDRF for the 2015/16 Drought

### Summary of Damage and Loss

In a period of two years, Malawi was affected by two severe natural disasters: once-in-500-years floods in 2015, which affected more than 1.1 million people, followed by a devastating drought that is expected to leave at least 6.5 million people food insecure during the 2016/17 season. The GoM responded to both disasters with requests for international assistance from the EU, the United Nations, and the WB to help conduct a comprehensive PDNA and to support disaster recovery planning through the NDRF.

The severity of the two events was unprecedented. The 2015 Malawi floods were some of the most devastating floods in decades in terms of geographical coverage, severity of damage, and extent of loss. The PDNA estimated total disaster effects and recovery and reconstruction needs for the 12 affected sectors at US\$335 million (MWK 146 billion) (equivalent to approximately 0.6 percent of Malawi's gross domestic product) and US\$494 million (MWK 215 billion), respectively<sup>2</sup>. In the Flood Disaster Recovery Framework (DRF), districts proposed priority interventions at an estimated recovery cost of US\$225 million (MWK 169 billion) across the 14 affected sectors. The NDRF indicated a financial gap of US\$153 million (MWK 115 billion) out of the total recovery and reconstruction needs.

Strong El Niño conditions compounded the effects of the 2015 floods and greatly affected the 2015/16 agricultural season with erratic and below average rains and prolonged dry spells across most parts of the country, which resulted in severe crop failure, particularly in the Southern Region and parts of the Central Region. The 2016 Drought PDNA<sup>3</sup> estimated damages of US\$36.6 million (MWK 27.5 billion) and losses (projected to March 2017) of US\$329.4 million (MWK 247.1 billion), totalling an estimated at US\$366 million (MWK 275 billion) in drought effects. The productive sectors account for 81 percent of the effects, while the social and physical sectors account for 10 percent and 9 percent, respectively. The agriculture sector, including crops, livestock, and fisheries, was the most affected, with damages and losses accounting for 70 percent of the total. Recovery needs across all sectors, including food security, have been estimated at US\$510 million (MWK 383 billion), with food security making up more than 50 percent of the total recovery costs. Excluding food security, the social sectors account for 44.0 percent, the productive sectors for 30.3 percent, and the physical sectors for 56.5 percent of all recovery needs. Agriculture (22.0 percent), social protection (18.5 percent), and nutrition (14.4 percent) constitute the sectors with the highest recovery needs over the next three-year period.

### Framing the NDRF Drought Response

To help ensure recovery is guided towards the achievement of the NDRF vision and goal, the IDRPT, in consultation with MDAs, DPs, and CSOs and NGOs, established a set of strategic objectives. These strategic objectives are as follows:

#### Strategic Objectives

- Enhance drought resilience and preparedness by strengthening the capacity of institutions and drought-affected communities to reduce their risk and vulnerability

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<sup>2</sup> Flood PDNA reference. Note that the US\$:MWK ratio was 1:435 at the time of the Flood PDNA. The conversion rate of 1:750 is used throughout the rest of this document.

<sup>3</sup> Drought PDNA reference.

- Improve food security, nutrition, and delivery of health services for the most vulnerable people in drought-affected communities
- Increase agriculture productivity and sustainability through drought-resilient irrigation infrastructure, farming practices, and technologies
- Strengthen the resilience of water resource management and supply through non-structural and structural measures.

## Readiness for Implementation

To identify quick wins and efficiently target resources, sectors assessed the implementation readiness of all recovery interventions. Implementation readiness refers to the planning and preparation cycle of an intervention, and was defined in the following three stages:

1. **Preliminary design stage:** The intervention is still at the planning and preparation stages
2. **Ready to implement:** Planning and design complete, but with limited or no available funding
3. **Implementation stage:** Programme intervention is currently being implemented or earmarked for implementation, but requires additional funding or expansion of coverage area

This information provides strategic directions on how additional funding can immediately support recovery efforts. Most sectors have a significant number of interventions at the implementation stage, so recovery can be expedited once funding is available. However, a significant number of sector interventions are in the preliminary design stage and require preparatory activities before financing can be utilised.

## NDRF Drought Prioritisation and Financing

### Sectoral, Cross-Sectoral, and Geo-Spatial Prioritisation

The objective of prioritisation is to ensure that resources are used to address needs that will bring immediate and long-lasting changes to those most affected by the disaster. Understanding that there is a finite amount of recovery financing; it is important that recovery and reconstruction interventions are prioritised within and across sectors.

Sector teams identified a total of 142 programmatic recovery interventions. These interventions were assessed against a set of prioritisation criteria, and divided into three categories to identify urgent areas of support. The highest priority (priority 1) has a total of 52 sector interventions, while priorities 2 and 3 have 61 and 29 interventions, respectively. A total of US\$427.5 million (MWK 320.6 billion) is required to implement all priority 1 interventions. The greatest number of priority 1 interventions are in the water supply sector (7) and require US\$28 million (MWK 21 billion). The geo-spatial distribution of priority 1 recovery interventions across affected districts displays areas of concentrated priorities. The greatest amounts of priority 1 interventions are located in Kasungu, Balaka, and Chikwawa. However, priority 1 interventions are consistently distributed across most districts, suggesting that they are broadly necessary for most affected districts and communities.

Cross-sectoral priorities were further assessed by the IDRPT to identify core recovery interventions and opportunities to link recovery across sectors, as well as to provide the greatest opportunity for leveraging resources and expertise. A defined framework of cross-sectoral priorities was developed to support the co-ordination of multi-stakeholder recovery planning, financing, and implementation. In addition, the framework should ensure that recovery is implemented in an equitable and phased manner to avoid gaps and the duplication of efforts. A total of 38 cross-sectoral priority interventions were identified. The top

priority sectors were water resources management and development (3), irrigation development (3), food security (3), agriculture (crops, livestock, fisheries, and land resources conservation) (14), the environment (2), and water supply (7). These interventions require a total of US\$357 million (MWK 268 billion) for implementation.

### NDRF Alignment with National Resilience Plan

The objective of the NDRF is to bring resilience to communities recovering from disaster through improved multi-stakeholder co-ordination and prioritised and sequenced recovery implementation. The National Resilience Plan (NRP) goes beyond issues of post-disaster recovery to establish a blueprint for harmonising disaster resilience efforts in Malawi, which the NDRF directly supports. The NRP and the NDRF are complementary in nature, both responding to disasters risks but through different stages of the DRM cycle.

The NDRF interventions are mapped to the components and associated priority areas of the NRP to strengthen planning, financing, and implementation of pre- and post-disaster resilience building initiatives. The NDRF directly maps 63 percent of all recovery interventions to resilience efforts of the NRP, with 91 percent of the estimated US\$708 million (MWK 531 billion) for recovery linked to resilience building components. The strongest relationship is within Component 1: Resilient Agricultural Growth, where 39 of the 142 recovery interventions (27 percent) are in alignment, including more than 50 percent or US\$338 million (MWK 254 billion) supporting activities under the Resilient Agricultural Growth component. These linkages explain the strong complementarity of the two frameworks and reinforces the importance of ensuring strong co-ordination between implementing MDAs, DPs, and donors in order to forge clear linkages between the NDRF and NRP.

### Prioritisation, Allocation, and Mobilisation

While the PDNA estimates total damages and losses at US\$329 million (MWK 247 billion) and recovery needs at US\$500 million (MWK 375 billion), the NDRF revised financial needs have been estimated at US\$708 million (MWK 531 billion). During the prioritisation process, sectors determined that US\$427.5 million (MWK 320.6 billion) is needed for the most urgent recovery needs. However, 44 percent (US\$188 million/MWK 141 billion) of this need is for the procurement of 375,000MT of humanitarian maize.

The estimated US\$708 million (MWK 531 billion) is required to implement the recovery programmes across all 24 drought-stricken districts, and has been phased over a period of five years to address critical recovery interventions and accommodate implementation capacity. Sectors determined that short-term needs over a period of two years require an estimated US\$343 million (MWK 257 billion). In total, an estimated 51 percent (US\$175 million/MWK 131 billion) is needed to address urgent and long-term food security issues, such as procurement of maize, and 13 percent (US\$46 million/MWK 35 billion) is required for irrigation development.

Beyond the phased financial needs, sectors determined that 61 percent of all financing is required for priority 1 interventions, while 34 percent and 5 percent is required for priority 2 and 3 interventions, respectively. Priority 1 interventions are composed of a total of 52 recovery programmes, with financial needs estimated at US\$427.5 million (MWK 320.6 billion). Social sectors such as education, health, nutrition, and social protection, including food security, constitute the highest financial needs for priority 1 interventions, and require an estimate US\$253 million (MWK 190 billion). Furthermore, the estimated total financial requirements for cross-sectoral priorities are estimated at US\$357 million (MWK



268 billion). This includes priority 1 – water resources management and development, US\$14 million (MWK 11 billion); priority 2 – irrigation development, US\$97 million (MWK 73 billion); priority 3 – food security, US\$191.5 million (MWK144 billion); priority 4 –agriculture (crops, livestock, fisheries, and land resources conservation), US\$29 million (MWK 22 billion); priority 5 the environment US\$3 million (MWK 2 billion), and priority 6 water supply , US\$22 million (MWK 17 billion).

### Financial Gap

The financial gap was assessed to determine total available funding (both on- and off-budget sources) for recovery. The estimated **total financial gap is US\$142 million (MWK 107 billion)**. This is based on an estimated need of US\$708 million (MWK 531 billion) for recovery and US\$566 million (MWK 425 billion) available through active projects or donor pledges in response to the drought. However, when broken down by sector, analysis shows an inequitable distribution of resources based on priorities. For example, the urgent needs of food security have mobilised US\$345million (MWK 258.5 billion) in commitments or pledges, addressing 99 percent the total financial recovery needs for food security. However, the phased financial needs for food security only requiresUS\$244 million (MWK 183 billion) from FY17 to FY19.

In comparison, only US\$57 million (MWK 43billion) has been committed to the top six cross-sectoral priority areas (excluding food security), which only covers 28 percent of the required US\$203million (MWK 152 billion) for priority 1 recovery interventions within these sectors. The greatest financial gap is within irrigation development, which requires a total of US\$107 million (MWK 80 billion) for all recovery interventions and US\$97 million (MWK 73 billion) for priority 1 interventions, but has a total gap of US\$87 million (MWK 65 billion) for the sector and 80 percent for priority 1 recovery interventions. In comparison, **social protection has a commitment of 251 percent of its total required recovery intervention needs.** This assessment highlights the inequitable distribution of financing across recovery needs. Resources are not effectively being mobilised for priority sectors and are concentrated in specific areas. To ensure resilient recovery, greater control and direction is required in guiding resources towards priorities areas.

# Section 1

## Overview and Governance Arrangements of the National Disaster Recovery Framework

### Overview

Natural disasters in Malawi are no longer unexpected. Malawi is highly exposed to natural disasters, such as floods and droughts. Available records indicate that in the last 100 years the country has experienced about 20 droughts. In the last 36 years alone, the country has experienced eight major droughts, affecting more than 24 million people<sup>4</sup>. The impact, frequency, and spread of drought in Malawi have intensified in the past four decades and are likely to worsen with climate change, compounded by other factors, such as population growth and environmental degradation. Droughts and dry spells in Malawi cause, on average, a 1 percent loss of gross domestic product annually. Most drought episodes have occurred in El Niño years, during which the country experiences rainfall deficits.

Annual climate shock caused by droughts, dry spells, and floods continues to erase hard-fought development gains and pushes various population segments deeper into poverty. The cyclical nature of disasters in Malawi tests disaster response and recovery capacities, and presents overwhelming challenges to donor co-ordination and strategic recovery planning, financing and implementation. In response to unprecedented flooding in 2015, the Government of Malawi (GoM), with technical and financial support from the European Union (EU), the United Nations, and the World Bank (WB), embarked on a process to increase recovery readiness through the development of a National Disaster Recovery Framework (NDRF). The NDRF is a tool for systematically presenting the policy, institutional, financial, and operational aspects of a disaster recovery programme. It explains the results expected from the recovery programme and the approach Government, communities, and partners will take to implement it.

The NDRF was designed in alignment with Malawi's national disaster risk management and recovery policies and strategies. It serves both strategic and operational purposes in the management of a disaster recovery programme. It establishes a vision and principles for a recovery programme, while also communicating the recovery strategy, elaborating programmatic interventions, and showing how recovery needs will be financed. It is a living document in nature, updated based on recovery progress, priorities, and needs, and adapts to rising demand and future disasters. The NDRF has evolved to guide both the 2015 flood and 2015/16 drought recovery efforts and, under a common framework, is providing oversight to implementation and monitoring arrangements. This contributes to the achievement of strategic recovery objectives for both disasters in an integrated and coherent manner. The NDRF also ensures that recovery is resilient and leads to furthering the development agenda of the country.

The NDRF is a living document for guiding recovery and reconstruction. It provides a central framework for managing recovery planning, co-ordination, implementation, financing, and monitoring and evaluation (M&E) processes across current and future disasters. Cross-cutting elements, such as institutional arrangement, guiding principles, M&E processes, and financing and accountability mechanisms are

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<sup>4</sup> Malawi Drought 2015/16 Post-Disaster Needs Assessment (PDNA).

standardised to govern all NDRF disaster responses. After a disaster, the NDRF can be updated to address disaster-specific recovery needs, costs, and priorities. Disaster-specific sections of the NDRF are governed by its central framework but also provide guidance on cross-sectoral and geo-spatial priorities and phased financial needs to a specific disaster event.

## Development Process

Included as part of the Department of Disaster Management Affairs's (DoDMA) initial technical assistance request with the 2015 Floods Post-Disaster Needs Assessment (PDNA), the NDRF sought to establish a framework for guiding, monitoring, and co-ordinating prioritised and sequenced recovery. On behalf of the GoM, DoDMA led the development of the NDRF, with financial and technical assistance from the EU, the United Nations, and the WB, to inform the planning, financing, and implementation of the 2015 Flood PDNA.

The NDRF was developed through an extensive consultative process involving participants from key sectors at the national level, as well as district councils (DCs) in all declared disaster areas. Development of the NDRF started on June 11, 2015, when the consultation convened more than 100 participants, including development partners (DPs), donors, civil society organisations (CSOs) and non-governmental organisations (NGOs), and representatives from sector clusters and line ministers. National and district workshops were held between June and August 2015, to establish a central recovery vision, objectives, and cross-cutting principles, and defined sector recovery priorities, institutional arrangements, and financial gaps. Following three-day workshops with senior officials from all affected districts, the GoM convened the newly formed Inter-Departmental Recovery Prioritisation Taskforce (IDRPT) to review and align priorities at the district and national levels, confirm financial needs and phasing, and finalise the prioritisation of cross-sectoral and geo-spatial recovery interventions. On October 15, 2015, the NDRF was finalised and officially launched by the GoM.

In the 2015/16 agriculture season, Malawi was affected by prolonged dry spells, leading to an agricultural drought and triggering a national emergency for the subsequent year. Following the completion of the Drought PDNA in July 2016, the GoM, again under the leadership of DoDMA, began revising the NDRF to include drought-specific recovery needs and to expand processes within the NDRF to accommodate future events. On February 23, 2017, DoDMA brought together Government departments to orient drought-affected sectors on the elements of a NDRF and provided an action plan for its development. Additionally, sector teams presented an overall guiding vision for recovery: to support prolonged food security and to strengthen the resilience of vulnerable populations, restore livelihoods of drought-affected communities, and promote sustainable development and strategic objectives for programmatic recovery. During March 7–8, sector consultation workshops were held with all sector teams to define prioritisation and sequencing of recovery activities and to establish a financing and performance management framework for recovery.

As a follow-up to sector prioritisation, DoDMA activated the IDRPT to define cross-sectoral priorities, identify programmatic implementation dependencies to other sectors, and identify geo-spatial priorities. Sector teams completed cross-sectoral prioritisation, and results have informed recovery prioritisation, sequencing, and financing. A financial gap analysis was also conducted to identify how recovery resources are being allocated for recovery to establish a mechanism for financial tracking and targeting.

## Vision and Goal of the NDRF

Recovery efforts defined within the NDRF are guided by a central vision and goal. An initial vision and goal were determined following the 2015 floods; these have been updated in response to the 2015/16 drought. A common recovery vision and goal that cuts across both disasters is critical to ensure that the NDRF can effectively co-ordinate common multi-stakeholder efforts and strengthen the resilience of vulnerable populations.

**Vision:** A nation that is food secure and resilient to natural disasters, that can rapidly recover from drought and flood shocks, while fostering sustainable economic growth and ensuring equitable, inclusive, and participatory reconstruction that builds back better.

**Goal:** The long-term goal of the NDRF is to sustainably improve the resilience of communities affected by the floods and drought, support prolonged food security of vulnerable populations, and restore the livelihoods of disaster-affected communities.

## Purpose of the National Disaster Recovery Framework

This recovery framework serves the following purposes:

- Guide governments and other implementing stakeholders in prioritising the implementation of PDNA findings and guide recovery investment and resource allocations across short-term humanitarian needs and medium- to long-term reconstruction
- Help articulate a vision for recovery; define a national recovery strategy, guide strategic decision-making processes at the national and district levels, co-ordinate and prioritise multi-stakeholder interventions cross-sectoral and geospatially, and monitor outcomes across all recovery and reconstruction programmes
- Guide the government and all stakeholders to better address longer-term disaster vulnerability through coherent programmes that bridge the gap between recovery and development

## Guiding Principles for Recovery

1. **Policy alignment:** While the National Disaster Risk Management Policy is the central policy framework within which the recovery programme is implemented, other national policies focused on resilience building should be consulted and utilised to guide the recovery process, including those in key sectors represented in the recovery framework.
2. **Building back better and smarter:** The overarching principle in the design and implementation of all post-disaster recovery and reconstruction interventions is to ensure that such activities do not increase the vulnerability of exposed people or their assets to further disaster risk, as well as to ensure that reconstruction is appropriate in size and location for the community. As such, the principle of 'build back better and smarter' will prevail, requiring the integration of disaster risk reduction (DRR) in all recovery interventions.
3. **Focus on resilience:** While the recovery framework identifies short-, medium-, and long-term recovery and reconstruction needs, the focus of all interventions should be on building the disaster resilience of the person, household, community, and nation. The GoM is separately developing a national disaster resilience framework, and it is essential that the recovery framework complements the resilience framework.

4. **Community participation:** The NDRF is meant to address the needs of communities affected by the floods in Malawi. As such, communities should be at the centre of the recovery and reconstruction process, not just seeking community views in the design of interventions, but also ensuring that they are involved in the actual implementation and monitoring of the interventions.
5. **Decentralised approach:** Almost all of the flooding impact was felt at the district and local levels. It is therefore essential that recovery interventions are decentralised and that districts take a leading role in implementation. Day-to-day operations of recovery programmes should be left in the hands of existing decentralised structures, with lead ministries and departments providing guidance and co-ordinating the processes in different districts.
6. **Multi-stakeholder engagement and co-ordination:** Recovery programmes are not funded or implemented by the government alone. It is essential to recognise the role that different stakeholders, including CSOs, development and cooperating partners, the private sector, media, academia, and research community, play in the recovery process. It is critical to maintain an inventory of key players in the recovery programmes, as well as to build sustainable working relationships among all key stakeholders.  
Within the current National Disaster Risk Management framework, the National Platform for Disaster Risk Management should play a pivotal role in sharing experiences in the implementation of the recovery and reconstruction agenda. DoDMA should also ensure it effectively plays a co-ordination role so that there is no duplication of interventions and there is effective information sharing between and among stakeholders.
7. **Integration of gender and other cross-cutting issues:** While the protection sector addresses some gender and cross-cutting themes, it is essential that these issues are integrated across all recovery sectors, including climate change, DRR, the environment, gender, and HIV/AIDS, with specific indicators adopted in each. Emphasis should be on demonstrating that all recovery and reconstruction interventions clearly target vulnerable groups, including women, girls, children, the elderly, and the disabled.
8. **Build on ongoing development initiatives:** The recovery framework should complement already existing programmes addressing developmental needs in the country.
9. **Linkages with ongoing resilience programmes:** Different players are already implementing programmes and projects aimed at building community resilience in such areas as agriculture and food security, climate change adaptation and mitigation, DRR, early warning, health, and water and irrigation. To better implement the recovery framework, resilience programmes should establish linkages with existing programmes, avoid duplications, and use lessons learnt and best practices.

## NDRF Alignment with National Policies and Strategies

The NDRF was developed in conformity with national legislation, policies, and strategies. It is aligned with all statutes governing or supporting disaster risk management (DRM) and recovery in Malawi, and all sector and thematic legislation, policies, and strategies with which disaster recovery is associated. The NDRF is aligned but not limited to the key frameworks discussed below.

### Disaster Preparedness and Relief Act

The Disaster Preparedness and Relief Act provides a comprehensive, integrated, and co-ordinated framework for DRM aimed at preventing or reducing the risk of disasters, mitigating the severity of disasters, preparing for disasters, rapidly and effectively responding to and managing disasters and post-

disaster recovery, establishing a more effective institutional framework for DRM in Malawi, and optimizing DRM funding arrangements. It is in view of this that the NDRF is governed especially on matters pertaining to recovery from all forms of disasters.

### National Resilience Plan

The National Resilience Plan (NRP) is a blueprint for harmonising disaster resilience efforts in Malawi. The NRP was developed with the objective of making Malawi resilient to economic and environmental shocks for sustained growth and food security (livelihoods). The NRP and the NDRF are complementary in nature, both responding to disaster risks but through different stages of the DRM cycle. While the NRP aims to strengthen the operation modalities of DRM and define a path towards building national resilience, the NDRF provides a framework to build resilience through recovery after a disaster.

### Malawi Growth and Development Strategy II

Under theme 3: 'Social Support and Disaster Risk Management,' the Malawi Growth and Development Strategy II (MGDS-II) stresses the need to promote recovery and resilience of the population from disasters. In alignment with the MGDS-II, the NDRF will ensure that recovery activities are planned to overcome the challenges of climate change, population growth, and environmental degradation and to meet the development goal of addressing disaster risks for the socio-economic development of the country. The NDRF will consider this in light of the following strategies: strengthening DRM co-ordination mechanisms among stakeholders, enhancing remote sensing technologies, developing an integrated national early warning system (EWS), and implementing mitigation measures in disaster-prone areas.

### National Disaster Risk Management Policy

The National Disaster Risk Management Policy stresses the need to ensure that disaster losses and impacts are sustainably reduced. The NDRF will be developed in alignment with this policy's objectives to strengthen capacities for effective preparedness, response, and recovery. The NDRF will respect and align with the institutional arrangements for DRM stipulated in the policy. The policy is aimed at ensuring that DRM is mainstreamed into development planning and policies of all sectors to reduce the impact of disasters and to ensure sustainable development in the country. This is also incorporated into the NDRF.

### National Environmental Policy

The National Environmental Policy of 2004 calls for the development of mechanisms for cross-sector management of environmental issues; facilitating active participation of local communities and other stakeholders in the enforcement of environmental management legislation; and integration of environmental planning, management, and institutional frameworks into the decentralised structure. The NDRF recognises that the environment and land resources management is a key pillar to disaster recovery, and adherence to the National Environmental Policy of 2004 will be ensured.

### National Land Resources Management Policy and National Land Policy of 2002

The National Land Policy stipulates that it will promote community participation and public awareness at all levels to ensure environmentally sustainable land use practices and good land stewardship. This policy also seeks to ensure tenure security and equitable access to land to facilitate the realisation of social harmony and broad-based social and economic development through optimum and ecologically balanced use of land and land-based resources. Alignment with this principle is critical in the assessment of recovery interventions identified in the NDRF. On the other hand, the National Land Resources Management Policy

of 2000 aims to promote the efficient, diversified, and sustainable use of land resources both for agriculture and other uses to avoid sectoral land-use conflicts and ensure sustainable socio-economic development. All these policy directions provide guidance on the optimal use of land as propagated by the NDRF.

### National Meteorological Policy

The National Meteorological Policy aims to contribute to enhanced weather, climate, and climate change services to support the socio-economic development of Malawi. The NDRF recognises the impacts of changes in weather and climate patterns and the importance of a concerted and well-co-ordinated disaster recovery system in line with the National Meteorological Policy.

### Other Policies

The NDRF is governed by the DRM policy, and therefore will also respect all other policies to which the DRM policy ascribes. These include:

- National Social Support Policy
- Malawi Decentralisation Policy
- Health Policy
- National HIV and AIDS Policy
- Nutrition Policy
- Food Security Policy
- Gender Policy
- Child Protection Policy
- Education Policy
- Elderly and Disabilities Policy
- National Sanitation Policy
- National Housing Policy
- National Environmental Policy
- National Forestry Policy
- National Water Policy
- Mining Policy
- National Climate Change Management Policy

### Other Acts

The implementation of the NDRF will align with the statutory obligations stipulated in the Disaster Preparedness and Relief Act, including the following associated legislation:

- Environmental Management Act (1996)
- Forestry Act (1997)
- Irrigation Act (2001)
- Local Government Act (1998)
- Town and Country Planning Act (1988)
- Water Resources Act (1969)
- MGDS (2011/16)
- Malawi Constitution

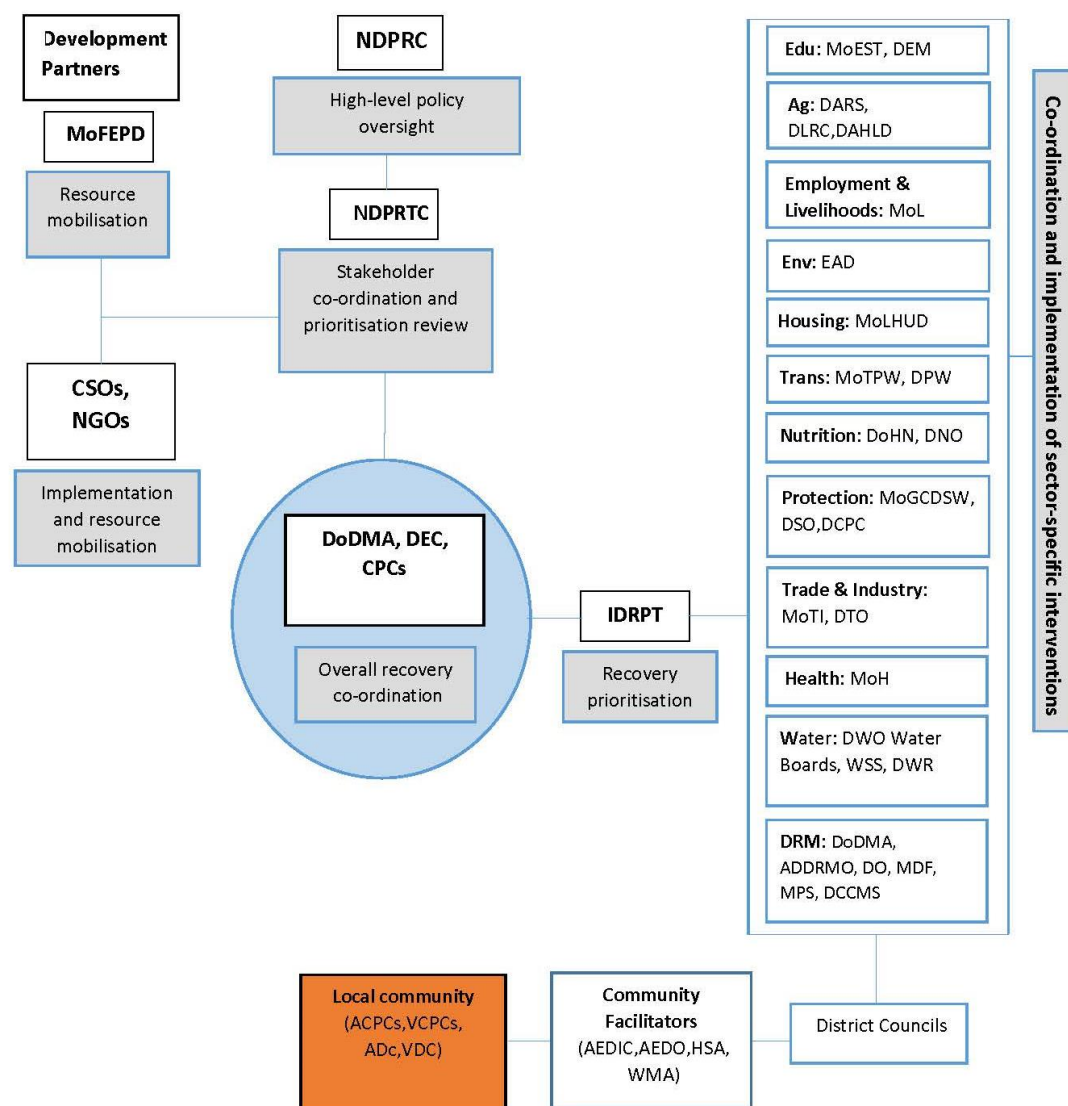
## Institutional Arrangements of the NDRF

The NDRF is a tool to manage efficient and effective recovery and reconstruction, as well as co-ordinate multi-stakeholder activities. The NDRF is in alignment with the Malawi's DRM institutional framework as outlined in the Operation Guidelines for Disaster Risk Management for Malawi. The institutional arrangements for the NDRF were established to ensure governance, management, and oversight of recovery across existing and future disasters covered under the framework. Central oversight to recovery and reconstruction policy and implementation will be provided by the National Disaster Preparedness and Relief Committee, while DoDMA will lead day-to-day monitoring and co-ordination of recovery and



reconstruction programmes. As custodian of the NDRF, DoDMA will be the lead agency responsible for the development and implementation of the NDRF. This will be accomplished in close co-ordination with ministries, departments, and agencies (MDAs); local and district authorities; and key stakeholders, including DPs, CSOs and NGOs, and the private sector. The National Disaster Preparedness and Relief Technical Committee (NDPRTC) will centrally support inter-cluster co-ordination to ensure that recovery and reconstruction activities are aligned and co-ordinated. The institutional arrangements for recovery and reconstruction at all levels and across sectors are illustrated below (Figure 1).

**Figure 1: Institutional Arrangements of the NDRF**





## Roles and Responsibilities for the NDRF

### National Disaster Preparedness and Relief Committee

The National Disaster Preparedness and Relief Committee (NDPRC) will provide policy guidance and direction on implementing of the NDRF. Where necessary, the NDPRC Chair may request the participation of other key players when deliberating issues relating to the recovery framework.

### National Disaster Preparedness and Relief Technical Committee and Technical Sub-Committees

The National Disaster Preparedness and Relief Technical Committee (NDPRTC) will be responsible for inter-cluster co-ordination, as well as analysing the final recovery results and reviewing the NDRF. The national DRM institutional set-up has 11 technical sub-committees: Agriculture and Food Security; Health and Nutrition; Water and Sanitation; Transport and Logistics; Assessment; Shelter; Spatial Planning and Camp Management; Early Warning; Protection; Education, Information, and Communication; and Search and Rescue. During disaster preparedness, response, and recovery periods, the technical sub-committees may function as clusters, focusing on humanitarian aspects.

### Department of Disaster Management Affairs

DoDMA will be the custodian of the NDRF, responsible for leading the development and implementation of all disaster responses covered under the framework. As the lead authority for managing recovery and reconstruction, DoDMA will co-ordinate the development of disaster-specific NDRF inputs with MDAs, local and district authorities, and key stakeholders, including DPs, CSOs and NGOs, and the private sector. In addition, DoDMA will support resource mobilisation and financial prioritisation, as well as tracking progress of implementation. DoDMA will be responsible for setting up and maintaining an M&E system and will hold regular monitoring and co-ordination meetings with key stakeholders during implementation.

### Ministry of Finance, Economic Planning and Development

The Ministry of Finance Economic Planning and Development (MoFEPD) is responsible for mobilisation of resources for the GoM. In the NDRF, MoFEPD will be responsible for mobilisation, management, and disbursement of financial resources to line ministries and departments that are implementing recovery interventions. MoFEPD will also be responsible for M&E of financial management by ministries and departments, and will share M&E records with DoDMA as part of the M&E system. The ministry will co-ordinate with DoDMA and other institutions during resource mobilisation and distribution.

### Ministries, Departments, and Agencies

MDAs are responsible for co-ordinating the identification and implementation of NDRF activities by various stakeholders. The MDAs will co-ordinate with DCs and key stakeholders to define prioritised sector interventions and will oversee the implementation of recovery within their sectors. The MDAs will guide resource allocations for recovery through annual budget allocations and will direct financial assistance provided by DPs and NGOs to priority sector recovery interventions. M&E of resources and project interventions will be ensured, and MDAs will provide records to DoDMA as part of the M&E system.

### Local Authorities

DCs will be responsible for co-ordinating and implementing the NDRF, as well as defining and prioritising recovery projects. However, no recovery intervention will be implemented at the district level without

going through the normal channels to ensure ownership and sustainability. The key co-ordinating structure will be the District Civil Protection Committee (DCPC) at the district level, the Area Civil Protection Committee at the Traditional Authority (TA) level, and the Village Civil Protection Committee (VCPC) at the village and group village levels. DCs will also be responsible for the management of financial resources and for monitoring and evaluating interventions implemented in the district by donor partners, NGOs, or themselves. Results will be submitted to form part of the M&E system under DoDMA.

### Development Partners and Civil Society and Non-Governmental Organisations

DPs, CSOs, and NGOs play key roles in mobilising financing for recovery and supporting implementation. These stakeholders often have long-term engagements within Malawi, and have strong relationships and knowledge with local issues, institutions, and communities. Recovery operations should leverage these assets to support implementation, but MDAs and local authorities must ensure that recovery interventions align with NDRF priorities. Realignment of existing project activities to priorities identified in the recovery framework should be explored to ensure effective recovery and reconstruction. It will also be necessary for MDAs or DCs to monitor the effectiveness of interventions offered and to report on interventions to guide resource allocation and avoid duplication. Effective co-ordination between DoDMA, MDAs, and local authorities should be maintained through regular two-way communication and co-ordination meetings.

### Private Sector

Some recovery interventions, such as those related to the transport and food security sectors, require the participation of the private sector. The private sector may also provide both financial and technical support for implementing some of the interventions in the recovery framework. Co-ordination with key private sector stakeholders should be maintained during development and implementation of the NDRF.

### Inter-Departmental Recovery Prioritisation Taskforce

For purposes of recovery, Government set up the IDRPT. The taskforce is called upon after a disaster to help facilitate the articulation of a recovery vision, objectives, timeline, and scope of a new recovery framework. A critical element of a NDRF is the harmonisation of recovery in alignment with national priorities and development plans. The IDRPT plays a central role in this regard, supporting the identification, prioritisation, and short- to long-term phasing of recovery strategies and interventions across sectors and geo-spatial locations. The IDRPT also plays a critical role in co-ordinating, monitoring, and reporting NDRF implementation through regular IDRPT meeting and consultations with district officers. IDRPT meetings will be held to discuss ongoing and planned recovery activities to ensure that efforts are aligned with NDRF priorities and principles. To support these processes, the IDRPT is composed of senior government technical officers and key stakeholders with expertise related to the specific disaster.

### Composition of the IDRPT

DoDMA will be responsible for activating the IDRPT following the completion of a damage and needs assessment. The composition of the IDRPT is determined by DoDMA based on disaster type and technical need and the extent of expected involvement and support required for co-ordination and implementation of recovery activities. The IDRPT should include senior technical representatives from all major disaster-affected sector ministries, departments, and government parastatals (e.g. meteorological services, water board). Depending on the centralisation of disaster impacts and need, the IDRPT could also include district

representatives. Other key stakeholders, including DPs, CSOs, NGOs, and the private sector, that can provide critical technical capacities, knowledge, or inputs will be included on a case-by-case basis as per a specific disaster need. However, it is important to ensure that IDRPT composition does not compromise its core objectives or roles and responsibilities due to size or political structure.

### Role of the IDRPT

1. Provide recommendations on prioritisation of resource allocations and the annual on- and off-budgetary flows for recovery throughout the expected period
2. Articulate the recovery vision, objectives, and guiding principles to the public, stakeholders, and partners
3. Review district, sector, and national recovery plans, and convene sector teams and districts to address information gaps in the recovery plans
4. Define prioritisation criteria, and sequence and prioritise recovery activities within and across sectors and geo-spatial locations
5. Review and determine short-, medium-, and long-term sectoral priorities throughout the expected recovery and reconstruction period
6. Facilitate review of the priorities and recovery needs after the PDNA is conducted
7. Assess policy and legal frameworks for the recovery and reconstruction processes
8. Approve standards, guidelines, and operating procedures for an effective recovery process
9. Provide periodic checks and strategic guidance to the ministries and departments engaged in the recovery process
10. Advise and co-ordinate recovery activities of the MDAs in alignment with the NDRF
11. Review and report progress on the recovery process in accordance with the implementation roles and responsibilities defined within the NDRF
12. Respond upon activation of the IDRPT for disaster risk framework (DRF) development and implementation processes

### Monitoring and Evaluation

To ensure that recovery and reconstruction activities contribute to the strategic objectives (SOs) and goal of the NDRF, an effective M&E system for the NDRF should be developed to track resource mobilisation and distribution and to assess progress, co-ordination, and impact of recovery interventions. This system should build off existing mechanisms utilised by MDAs and districts, and provide an adaptive capability to monitor recovery efforts for existing and future disasters. MDAs currently use various tools for monitoring project activities. DoDMA is the responsible authority for centrally monitoring recovery progress and effectiveness, and will work with MDAs to adapt existing systems and co-ordinate inputs for M&E. The M&E system should comprise a management information system that includes a database that will keep track of all programme activities and financial transactions and that will monitor progress of physical and electronic records and reports for trainings, workshops, and field visits.

Key institutions responsible for monitoring NDRF implementation are MoFEPD, DoDMA, MDAs relevant to the disaster, DCs, DPs, and CSOs and NGOs. The Monitoring Plan below (Table 1) summarises roles and responsibilities of key institutions in monitoring and evaluating NDRF recovery results that apply to all responses included in the NDRF.

**Table 1: NDRF Monitoring Plan**

Institution	Responsibilities
<b>DoDMA</b>	<ul style="list-style-type: none"> <li>• Set up and maintain the M&amp;E system (design of data collection forms, electronic and physical records, database management)</li> <li>• Custodian of M&amp;E records on the following: <ul style="list-style-type: none"> <li>Implementation of recovery interventions</li> <li>Resource mobilisation and distribution from national and regional centres</li> <li>Progress of recovery as well as effectiveness of interventions</li> </ul> </li> <li>• DoDMA will receive monitoring records from MDAs, DCs, DPs, and CSOs and NGOs that will be input to the NDRF M&amp;E system</li> </ul>
<b>MoFEPD</b>	<ul style="list-style-type: none"> <li>• Custodian of monitoring details of the following: <ul style="list-style-type: none"> <li>Co-ordination of recovery interventions</li> <li>Resource mobilisation and distribution from national and regional centres</li> <li>Progress of recovery as well as effectiveness of interventions</li> </ul> </li> </ul>
<b>MDAs</b>	<ul style="list-style-type: none"> <li>• Monitor and maintain monitoring details of the following: <ul style="list-style-type: none"> <li>Financial resource records</li> <li>Resource allocation and distribution</li> <li>Progress of sector-specific recovery interventions</li> </ul> </li> <li>• MDAs will generate and maintain their own monitoring records and submit monitoring records to DoDMA for input into the NDRF M&amp;E system</li> <li>• MDAs will also provide records on recovery interventions by DPs, CSOs, and NGOs that they are collaborating with as part of M&amp;E</li> </ul>
<b>DCs</b>	<ul style="list-style-type: none"> <li>• Monitor and maintain monitoring details of the following: <ul style="list-style-type: none"> <li>Financial resource records</li> <li>Resource allocation and distribution</li> <li>Progress of sector-specific recovery interventions by them or other partners (DPs, CSOs, and NGOs)</li> </ul> </li> <li>• DCs will generate and maintain their own monitoring records and submit monitoring records to MDAs and DoDMA for input into the NDRF M&amp;E system</li> <li>• DCs will also provide records on recovery interventions by DPs, CSOs, and NGOs that they are collaborating with as part of M&amp;E</li> </ul>
<b>DPs/CSOs/NGOs</b>	<ul style="list-style-type: none"> <li>• Monitor and maintain monitoring details of the following: <ul style="list-style-type: none"> <li>Financial and other resource allocation</li> <li>Progress of sector-specific recovery interventions</li> </ul> </li> <li>• DPs, CSOs, and NGOs will share and submit monitoring records to DoDMA for input into the NDRF M&amp;E system</li> </ul>

## Financing Framework

There are five components to be considered in the management of financing for the NDRF:

- Forecasting financial resources
- Quantifying the economic costs of the disaster
- Identifying and mobilising financial resources for recovery
- Developing and approving recovery budgets
- Setting up administrative arrangements to disburse funds and track and report on expenditures and results

The MoFEPD is responsible for leading these activities, and will co-ordinate with DoDMA, MDAs, DCs, DPs, and CSOs and NGOs to mobilise and guide resource allocations to priority recovery areas.

### Financial Forecasting

At the beginning of the season, the government, led by DoDMA, carried out contingency planning after the season forecast from the Department of Climate Change and Meteorological Services (DCCMS) and the Water Resources Department. Based on the information provided and by simulating the past event, it is possible to estimate the resources that will be required for recovery interventions in case a disaster occurs. This approach will ensure the financial preparedness of the government to intervene quickly with appropriate recovery interventions. The financial forecast for recovery should be embedded in the contingency planning process. The information should be shared with MoFEPD, DPs, CSOs, and NGOs to anticipate resource allocation before the event.

### Quantifying the Economic Cost of the Disaster

Once a disaster has occurred, a deeper analysis of the economic cost of the disaster is carried out by the sector teams. The information gained will inform the decision about whether a declaration of National Emergency is required and will also support a more detailed disaster assessment of damage and need, if necessary, along with the development of a recovery framework. With guidance from DoDMA, supported by the sector specialist, the MoFEPD will co-ordinate resource allocation to priority areas that require recovery interventions. The resources will include the public funds, donations, loans, grants, and reallocation of programmed allocations from lower-priority areas based on discussions with DPs and NGOs.

### Identifying and Mobilising Financial Resources for Recovery

This process will be co-ordinated by the MoFEPD and DoDMA but also championed by sector departments. Based on recovery priorities and financing needs identified in the NDRF, departments will present resource requirements to the MoFEPD to be confirmed by DoDMA. The MoFEPD will seek recovery resources through various funding streams, including reprogrammed budgets, surpluses, reserves, donations, and borrowing. This will require close co-ordination with the MoFEPD Budget Department, DPs, and NGOs. The MoFEPD will utilise the NDRF to guide new requests and offers to support recovery financing and implementation. Departments will reprioritise the interventions in their sector to focus on the immediate needs, while the MoFEPD will mobilise more resources and identify resources from the national budget to finance recovery interventions.

### Developing and Approving Recovery Budgets

Programmatic sector-specific recovery budgets and phased financial needs are established by sector departments during the NDRF development process. Once the cross-sectoral prioritisation has taken place, sector departments will annually present financial recovery needs. These will be submitted to the MoFEPD and DoDMA for review and reprioritisation. Once reviewed with sectors and finalised, the recovery budget proposal will be submitted to the MoFEPD Budget Department for approval.

### Funds Disbursement and Management

Disbursement of recovery resources from the public funds and reprogrammed project resources will follow the existing Government/project procedures but with detailed documentation submitted to

MoFEPD and DoDMA, which will be reviewed from time to time. The documentation will identify areas that require more financial support.

The public tends to expect a high level of transparency in the use of recovery funds. For that reason, recovery programmes require an accountability framework, which includes the elements described in the following table.

**Table 2: Elements of the Accountability Framework**

Element	Recommendation
<b>Monitoring of expenditures and results</b>	Augment existing public financial management systems by other sources. Partners should also participate.
<b>Reporting on progress within Government and to the affected population and the general public</b>	Address reporting in the communications strategy. Public financial management systems produce some of the necessary information, but formats are not suitable for public use, and timeliness is often an issue. Consider using alternative systems.
<b>Prevention of corruption</b>	Provide effective mechanisms, such as channels for whistle blowers, financial auditing, and systems of community oversight.
<b>Grievance redressal</b>	Provide standards for grievance redressal to all implementing agencies.

## NDRF Development and Implementation Framework

The NDRF development and implementation framework is intended to outline the procedures and steps required to govern the NDRF in the aftermath of a disaster declaration and until recovery and reconstruction activities are complete. It highlights the roles and responsibilities of key actors to ensure that recovery is co-ordinated across all stakeholders, geo-spatial locations, and institutional levels of authority (national, district, and community).

### Development

In response to a national disaster, the GoM will initiate a disaster and needs assessment. Requests for technical support to conduct this activity may also include a request for future recovery planning assistance. Activities, including disaster-specific inputs to the NDRF, should commence only after the completion of the damage and needs assessment. However, preliminary analysis of policy, legal, and financing considerations can take pace in advance. DoDMA will identify the key line ministries and stakeholders relevant to the disaster and activate the IDRPT. IDRPT consultations will define the scope and timeline for updating the NDRF. These consultations will also result in the drafting of the recovery vision and the SOs.

Analysis of the disaster context and the key inputs gathered will guide consultations with key stakeholders to develop sectoral, implementation, financial, and performance frameworks. When developing sectoral frameworks, sector priorities for the sectors and districts will be reviewed, financially costed, and phased in over time (short-, medium-, and long-term periods). The financial strategy is determined by identifying the financial flows (on- and off-budget), available funding sources, and funding gaps. The IDRPT will define cross-sectoral and geo-spatial priorities based on established criteria, and will identify programmatic implementation dependencies on other sectors. Results of the analysis will be shared for consultation and comments with DCs, DPs, and the NDPRTC. Upon revision, the NDRF will be validated with the NDPRC and then launched and disseminated.

## Implementation

DoDMA, in co-ordination with line ministries, departments, and DCs, should ensure that implementation of all recovery activities by various stakeholders is aligned with the NDRF at all levels. To ensure that implementation of recovery activities by DPs and NGOs is aligned with the NDRF, the implementing stakeholders should co-ordinate with DoDMA, line ministries and departments, and DCs. New recovery activities and financing should be reported by DCs, and line ministries, and departments to DoDMA for record and review against the NDRF. The IDRPT will hold quarterly co-ordination meetings to discuss implementation of recovery activities across the various disasters governed by the NDRF. DoDMA should host and facilitate development of an M&E system to track and monitor the progress of recovery activities. The recovery priorities for the NDRF will be assessed and updated during the quarterly IDRPT meetings. In instances where there exist similar recovery interventions from different disasters, it is the role of the IDRPT to prioritise and ensure synergy and co-ordination of the activities in the NDRF. Design and implementation of recovery activities should be programmed to ensure that recovery interventions strengthen resilience.

**Table 3: NDRF Development and Implementation Framework**

Action	Responsibility/Level	When
<b>Development</b>		
<b>Declaration of national disaster</b>	GoM (Office of the President and Cabinet)	Immediately after the initial rapid assessment
<b>Request for assistance for damage and needs assessment and DRF</b>	GoM (Office of the President and Cabinet)	Immediately after declaration
<b>Conducting damage and needs assessment</b>	GoM, DPs, CSOs	After declaration
<b>Activate the IDRPT</b>	DoDMA	After damage and needs assessment
<b>Determine the scope, recovery vision, SOs, and timeline for developing the DRF</b>	IDRPT	When activated
<b>Analyse the disaster context and key inputs (policy/legal changes).</b>	IDRPT	When activated
<b>Sectoral and stakeholder consultations</b>	IDRPT, DCs, DPs, NGOs	After defining the scope, vision, and objectives
<b>Cross-sectoral and geo-spatial prioritisation</b>	IDRPT	After sectoral and stakeholder consultations
<b>Drafting of the DRF</b>	IDRPT members	After cross-sectoral and geo-spatial prioritisation
<b>DRF draft consultations and validation</b>	DoDMA	After drafting the DRF
<b>Finalisation, launch, and dissemination</b>	DoDMA	After DRF draft consultations and review
<b>Implementation</b>		
<b>Co-ordination and implementation of recovery activities</b>	DoDMA, line ministries and departments, DCs	After launch
<b>Tracking and monitoring recovery progress</b>	DoDMA/line ministries and departments/DCs	During implementation of recovery activities



# Section 2

## NDRF Disaster Context

### Summary of Damage and Loss (Flood/Drought)

In a period of two years, Malawi was affected by two severe disasters. A once-in-500-years flood in 2015, which affected more than 1.1 million people, followed by a devastating drought that left at least 6.5 million people food insecure during the 2016/17 season. The GoM responded to both disasters with requests for international assistance from the EU, the United Nations, and the WB to help conduct a comprehensive PDNA and support disaster recovery planning through the NDRF.

The severity of the two events was unprecedented. The 2015 Malawi floods were some of the most devastating in decades in terms of geographical coverage, severity of damage, and extent of loss. An estimated 1.1 million people were affected, including 230,000 displaced, 106 killed, and 172 reported missing<sup>5</sup>. Economic loss and damage cut across national, district, and community levels, and affected a total of 12 sectors, with concentrated effects on housing, transport, and agriculture (including crops, irrigation, fisheries, and livestock). The losses were exacerbated by damage to infrastructure, crops and livestock, and agriculture production due to the subsequent water and electricity shortages and a disruption of economic activities due to displacement. A National State of Disaster was declared for 15 districts: Balaka, Blantyre, Chikwawa, Chiradzulu, Karonga, Machinga, Mangochi, Mulanje, Nsanje, Ntcheu, Phalombe, Rumphi, Salima, Thyolo, and Zomba. During the same period, the districts of Dedza and Nkhosha were also affected by the disaster, and therefore were included as part of the 2015 Flood DRF. The PDNA estimated total disaster effects and recovery and reconstruction needs for the 12 affected sectors at US\$335 million (MWK 146 billion) (equivalent to approximately 0.6 percent of Malawi's gross domestic product) and US\$494 million (MWK 215 billion), respectively<sup>6</sup>. In the Flood DRF, districts proposed priority interventions at an estimated recovery cost of US\$225 million (MWK 169 billion) across the 14 affected sectors. The NDRF indicated a financial gap of US\$153 million (MWK 115 billion) out of the total recovery and reconstruction needs.

Strong El Niño conditions compounded the effects of the 2015 floods and greatly affected the 2015/16 agricultural season with erratic and below average rains and prolonged dry spells across most parts of the country, which resulted in severe crop failure, particularly in the Southern Region and parts of the Central Region. At least 6.5 million people (39 percent of the population) in Malawi's 24 drought-affected districts risked not being able to meet their food requirements during the 2016/17 consumption period<sup>7</sup>. The 2016 Drought PDNA<sup>8</sup> has estimated damages amounting to US\$36.6 million (MWK 27.5 billion) and losses (projected to March 2017) of US\$329.4 million (MWK 247.1 billion), totalling an estimated US\$366 million (MWK 275 billion) in drought effects. The productive sectors account for 81 percent of the effects, while the social and physical sectors account for 10 percent and 9 percent, respectively. The agriculture sector,

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<sup>5</sup> Flood PDNA reference.

<sup>6</sup> Flood PDNA reference.

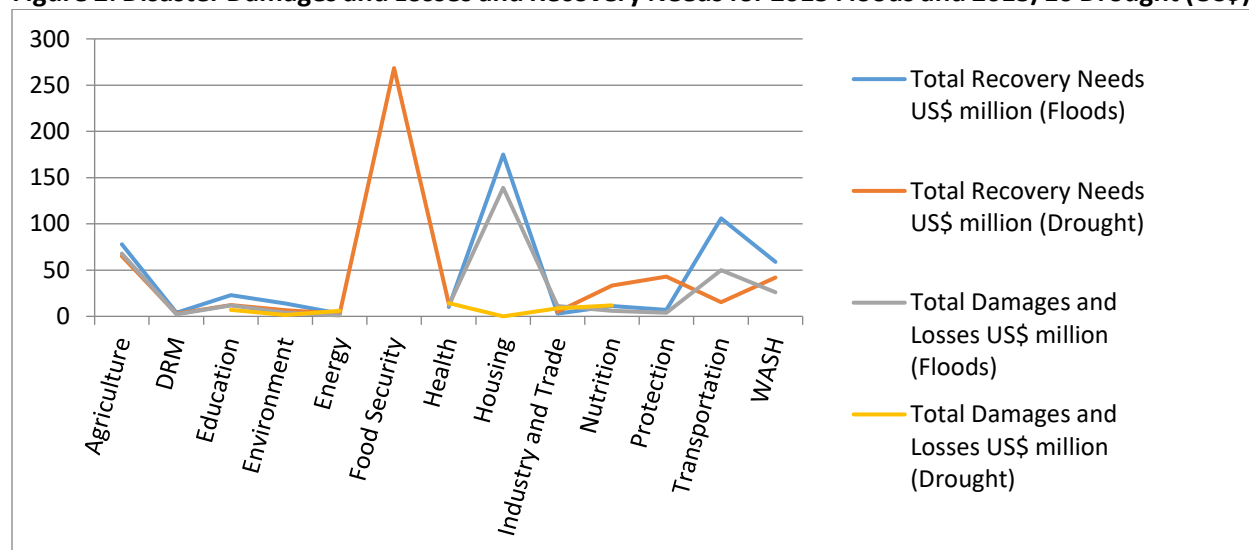
<sup>7</sup> Malawi Vulnerability Assessment Committee report reference.

<sup>8</sup> Drought PDNA reference.



including crops, livestock, and fisheries, was the most affected, with damages and losses accounting for 70 percent of the total. Recovery needs across all sectors, including food security, have been estimated at US\$510 million (MWK 383 billion), with food security making up more than 50 percent of the total recovery costs. Excluding food security, the social sectors account for 44.0 percent, the productive sectors for 30.3 percent, and the physical sectors for 56.5 percent of all recovery needs. Agriculture (22.0 percent), social protection (18.5 percent), and nutrition (14.4 percent) constitute the sectors with the highest recovery needs over the next three-year period. A comparison of damage and losses and recovery needs from the two disasters is illustrated in Figure 2.

**Figure 2: Disaster Damages and Losses and Recovery Needs for 2015 Floods and 2015/16 Drought (US\$)<sup>9</sup>**



## Implementation Challenges

Recovery activities face a lot of challenges, such as co-ordination, implementation capacity constraints, M&E of recovery interventions, and resource mobilisation.

### Co-ordination

Co-ordination challenges between MDAs, DCs, DPs, and CSOs and NGOs can lead to duplication of recovery efforts and use of resources for non-prioritised recovery activities. Undefined communication and co-ordination mechanisms create awareness gaps and exclude stakeholders that are important for recovery processes. This is often most pronounced in recovery efforts between the government and NGOs, but also remains an internal challenge between MDAs. At district level, there is limited capacity to track recovery activities, especially when implemented through organisations that fail to register or communicate operations with DoDMA and DC. Without an updated database of recovery activities, including interventions implemented by NGOs, MDAs are unable to clearly identify recovery needs and direct recovery support. Ad hoc requests for information often take time and provide incomplete information.

<sup>9</sup> Figures based on drought and flood PDNAs. To allow for comparison between the flood and drought assessments, the sub-sectors of the agriculture sector (i.e. crops, livestock, fisheries, and irrigation) are combined in Figure 2.

These challenges are further compounded in situations where disasters strike in consecutive years. Recovery responses to the 2015 floods and 2015/16 drought emphasise the importance of ensuring co-ordination between MDAs, districts, DPs, and CSOs and NGOs, because both disasters affected similar districts and sectors. Without clear co-ordination mechanisms and implementation arrangements there is a greater likelihood of duplicating efforts and creating recovery gaps.

**Recommendation:** It is essential that the NDRF is utilised to maintain co-ordination for flood and drought responses and to effectively communicate recovery priorities. Sensitisation should be strengthened to ensure recovery activities and work plans are aligned with the NDRF and that interventions are tracked and communicated at all levels. Districts offices should also improve regular communication on recovery interventions to MDAs and DoDMA, and should enhance oversight to ensure that recovery agencies are registered and that they report on recovery activities and financing. DoDMA must further ensure that recovery efforts are co-ordinated between flood and drought responses and that activities are targeted to key the priorities of both disasters.

### Implementation and M&E Capacity

Capacity challenges for monitoring and implementing recovery exist broadly across all levels and include constraints on human resources, systems, and equipment. Local authorities have limited trained personnel to oversee recovery operations and lack systems to assess results and outcomes. In the absence of effective systems for guiding and monitoring recovery activities, districts are unable to effectively co-ordinate and guide recovery programmes. Modernised equipment for monitoring and reporting is limited, and information management is largely conducted through manual processes. This presents challenges to the timely access of information for co-ordinating recovery interventions. M&E is also constrained by a lack of baseline information, before and after a disaster, that can be used as a reference to measure the success of the recovery process.

**Recommendation:** A capacity assessment of the DoDMA was undertaken between December 2016 and January 2017, feeding into the DoDMA's Capacity Development Plan 2017/2018-2019-2020. Capacity gaps and training needs identified in the plan should be addressed at all levels through necessary training and/or additional personnel. Systems for tracking recovery interventions should be strengthened to allow for the review of recovery activities. This system should be managed centrally by DoDMA and capacity building should be done at all levels (i.e. by all stakeholders involved in collecting and archiving the recovery information). With the establishment of an effective archiving system and trained personnel, baseline information that feeds into recovery plans could easily be made available.

### Resource Mobilisation and Monitoring

Malawi's central database for tracking financial assistance is not regularly maintained and cannot readily provide information on the availability of resources by donor, sector, or time frame. This information is critical for informing recovery strategies to address resource gaps and prioritised recovery needs. Without a central financial database, the MoFEPD cannot effectively co-ordinate financial assistance for donors and DPs, or ensure development aid is appropriately targeted.

**Recommendation:** Update and maintain a centralised financing tracking mechanism for all development aid and institute systems for collecting information from donors, DPs, and CSOs and NGOs. This information should be used to inform resource mobilisation strategies, annual budgets, and recovery finance allocation.

## Next Steps and a Road Map for NDRF Implementation and Institutionalisation

### Policy and Planning

1. DoDMA should lead dissemination of the NDRF to districts and sensitise stakeholders on the process of recovery planning and prioritisation in alignment with the NDRF.
2. Sectors and districts should develop detailed recovery plans based on NDRF recovery priorities and phased financial plans. All stakeholders should ensure that recovery plans and activities align with the NDRF.
3. DoDMA should develop procedures for maintaining and updating the NDRF to ensure that changes to recovery priorities and financial needs are tracked during the implementation. This should be done in co-ordination with the NDPRTC.
4. DoDMA will update the Disaster Preparedness and Relief Act to include NDRF development and response procedures in order to ensure that required mechanisms are in place for future disasters.

### Institutional Arrangements and Co-ordination

1. Co-ordination mechanisms between DoDMA, MDAs, districts, DPs, CSOs and NGOs, and communities need to be formalised at national and district levels. Co-ordination mechanisms should include quarterly meetings of the IDRPT under the guidance of DoDMA to review progress on the implementation of the NDRF.
2. Regular donor co-ordination meetings should be organised by DoDMA to ensure that recovery activities implemented by various stakeholders are aligned with the NDRF and that recovery priorities and gaps are communicated.

### Implementation

1. DoDMA should oversee the implementation of the NDRF both vertically and horizontally, ensuring co-ordination with all stakeholders, while also working with DPs, CSOs, NGOs, and the private sector to guide the prioritisation of recovery resources.
2. MDAs should support districts in developing recovery plans for the implementation of prioritised recovery activities and should co-ordinate across sectors to facilitate the implementation of required interventions linked to their respective sector. MDAs should also begin programing cross-sectoral priorities within existing and new work plans.

### Financing Mobilisation

1. The MoFEPD should assess sources of existing development financing to identify opportunities to support prioritised recovery interventions and should hold discussions with donors and DPs on the possibilities of reprograming resources for critical recovery activities. The MoFEPD should also facilitate the development of a financing aid tracker, with support from DoDMA.
2. The MoFEPD should initiate discussion on how resources can be mobilised to address financing gaps identified in the NDRF. This could be done through international appeals and donor conferences or donor co-ordination meetings.
3. MDAs, with support from DoDMA, should align sector budgets to the recovery priorities and work with the MoFEPD Budget Department to allocate resources for recovery-specific activities.

## Monitoring and Evaluation

1. DoDMA should lead the development of an M&E strategy and results framework, and establish a database management system to track implementation progress of both flood and drought recovery interventions. The M&E systems should be based on existing monitoring mechanisms, and inputs will be collected from MDAs and districts.
2. Reporting lines for data collection and reporting should be formalised between DoDMA, MDAs, and districts.

**Table 4: Actions for Next Steps and the Way Forward**

Actions	Responsibility	When
<b>Develop a clear dissemination and sensitisation strategy</b>	DoDMA	Immediately
<b>Develop sector- and district-level recovery plans</b>	DCs	Immediately
<b>Institutionalise processes for updating and developing the NDRF</b>	DoDMA, NDPRC	Continuous
<b>Provide policy guidance for the implementation of DRFs</b>	NDPRC	Continuous
<b>Hold periodic meetings to communicate progress on the implementation of the NDRF</b>	IDRPT	Quarterly
<b>Periodic donor co-ordination meetings</b>	DoDMA, DPs, NGOs	Bi-annually
<b>Mobilise and prioritise development financing to recovery priorities</b>	MoFEPD	Continuous
<b>Develop financing aid tracker</b>	MoFEPD, DoDMA	Continuous
<b>Align sector budgets with recovery priorities</b>	MDAs, DoDMA, MoFEPD Budget Department	Annually
<b>Facilitate development of an M&amp;E system</b>	DoDMA	Immediately
<b>Collect data on the implementation of the recovery process</b>	DCs, MDAs	Ongoing

# Section 3

## NDRF 2015/16 Drought Recovery

### Strategic Objectives

- Enhance drought resilience and preparedness by strengthening the capacity of institutions and drought-affected communities to reduce their risk and vulnerability
- Improve food security, nutrition, and delivery of health services for the most vulnerable people in drought-affected communities
- Increase agriculture productivity and sustainability through drought-resilient irrigation infrastructure, farming practices, and technologies
- Strengthen the resilience of water resource management and supply through non-structural and structural measures

### Summary of Damage and Loss by Sector

Strong El Niño conditions greatly affected the 2015/16 agricultural season with erratic and below average rains and prolonged dry spells across most parts of the country, which resulted in severe crop failure, particularly in the Southern Region and parts of the Central Region. At least 6.5 million people (39 percent of the population) in Malawi's 24 drought-affected districts risked not being able to meet their food requirements during the 2016/17 consumption period, according to the 2016 Malawi Vulnerability Assessment Committee (MVAC) Report on food security<sup>10</sup>. The 2016 Drought PDNA<sup>11</sup> has estimated damages amounting to US\$36.6 million (MWK 27.5 billion) and losses (projected to March 2017) of US\$329.4 million (MWK 247.1 billion), totalling an estimated at US\$366 million (MWK 275 billion) in drought effects. The productive sectors account for 81 percent of the effects, while the social and physical sectors account for 10 percent and 9 percent, respectively. The agriculture sector, including crops, livestock, and fisheries, was the most affected, with damages and losses accounting for 70 percent of the total. Recovery needs across all sectors, including food security, have been estimated at US\$510 million (MWK 383 billion), with food security making up more than 50 percent of the total recovery costs. Excluding food security, the social sectors account for 44.0 percent, the productive sectors for 30.3 percent, and the physical sectors for 56.5 percent of all recovery needs. Agriculture (22.0 percent), social protection (18.5 percent), and nutrition (14.4 percent) constitute the sectors with the highest recovery needs over the next three-year period.

**Table 5: Total Drought Damages, Losses, and Recovery Needs (PDNA)**

Sub-sector	Total drought damages and losses MWK million	Total drought recovery needs MWK million	Total drought damages and losses US\$ million	Total drought recovery needs US\$ million
Agriculture- Crops	149,069	30,409	198.8	41.0
Livestock	35,220	7,551	47.0	10.0

<sup>10</sup> MVAC report reference.

<sup>11</sup> Drought PDNA reference.

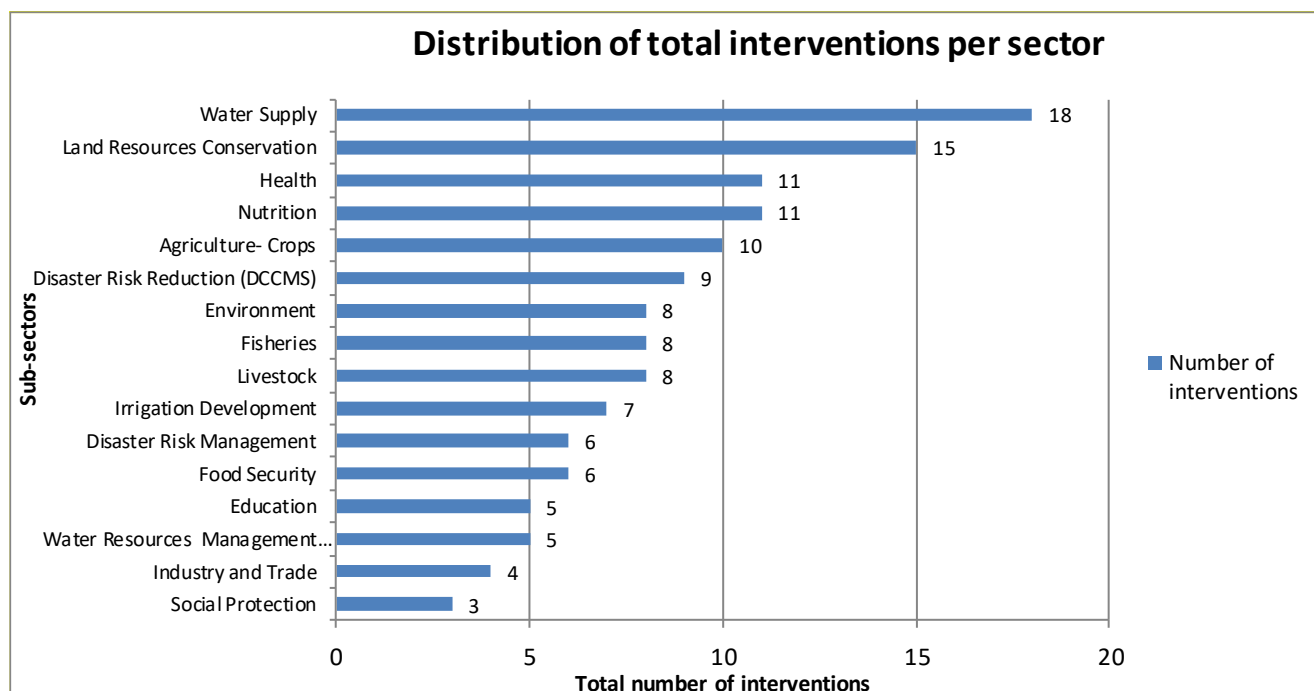
Fisheries	8,088	396	10.8	0.5
Irrigation Development	23,907	10,576	31.9	14.0
DRM	–	2,195	–	3.0
Education	7,729	9,214	10.3	12.0
Environment	4,310	4,920	5.7	7.0
Energy	4,416	2,170	5.9	3.0
Food Security	–	201,344	–	268.0
Health	10,728	10,136	14.3	14.0
Industry and Trade	6,576	3,748	8.8	5.0
Nutrition	8,978	25,069	12.0	33.0
Social Protection	–	32,181	–	43.0
Transportation	–	11,498	–	15.0
WASH	14,386	23,244	19.2	31.0
Water Resources Management and Development	1,050	8,030	1.4	11.0
<b>Total</b>	<b>274,457</b>	<b>382,681</b>	<b>366.1</b>	<b>510.5</b>

### Sectoral Distribution of Recovery Interventions

To support the efficient and effective recovery process, the various affected sectors identified recovery programmes that would enhance drought resilience and sustainability and that would strengthen their capacity to reduce risk and vulnerability. Sectors and locations of recovery interventions vary depending on the extent of damages and losses identified in the PDNA, humanitarian needs, and the methods of strengthening resilience and capacity building. The distribution of recovery interventions across sectors is examined in Figure 3, which shows that the water supply and livestock sectors require the greatest number of interventions. Most water supply interventions are aimed at augmenting issues of water supply through improving capacity, while agriculture (livestock, crops, and fisheries) interventions concentrate on improving food security through surveillance and diversification and increasing agriculture productivity through resilience farming practices, infrastructure, and technologies.

Sectors such as water resources management and development and irrigation development have also identified interventions that strengthen water resource resilience and enhance capacities to ensure an increase in agricultural productivity, while other cross-cutting sectors like DRM, the environment, and DRR identify recovery interventions that enhance preparedness by strengthening the capacity of institutions and drought-affected communities to reduce their risk.

**Figure 3: Distribution of Interventions by Sector**

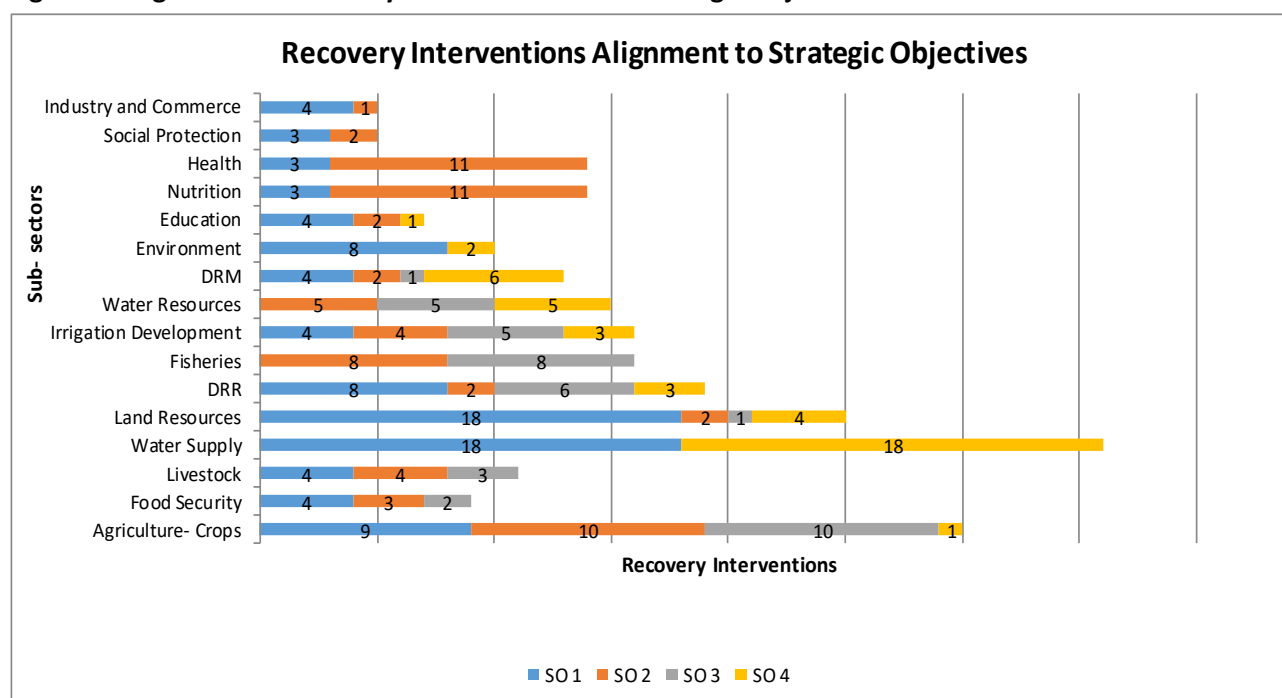


#### Alignment of Recovery Interventions to Strategic Objectives

To support the overall goal and vision of the NDRF, the affected sectors aligned their recovery interventions to the overall SOs to ensure that recovery interventions supported immediate food security, strengthened the resilience of vulnerable populations, increased agriculture productivity, and promoted sustainable development. The four SOs guiding the Drought DRF are listed on page 27. Figure 4 examines how recovery interventions across all sectors aligned with each SO. This analysis was critical in establishing if proposed interventions were relevant to drought recovery and should be prioritised.

While most sector interventions align with at least two SOs, sectors such as agriculture crops, DRM, irrigation development, DRR, and land resources conservation and the environment have interventions aligning with most, if not all, the SOs. These interventions include activities such as the enhancement of seed and crop production and infrastructure development for sustainable drought resilience. Alternatively, interventions in sectors such as health, education, nutrition, social protection, and industry and commerce align mostly with only SOs 1 and 2. However, social protection issues are addressed through catchment management activities from various sectors that lead to restoration of the livelihoods of affected communities.

**Figure 4: Alignment of Recovery Interventions with Strategic Objectives**



## Readiness for Implementation

To identify quick wins and efficiently target resources, sectors assessed the implementation readiness of all recovery interventions. Implementation readiness refers to the planning and preparation cycle of an intervention, and was defined in the following three stages:

1. **Preliminary design stage:** The intervention is still at the planning and preparation stages
2. **Ready to implement:** Planning and design complete, but with limited or no available funding
3. **Implementation stage:** Programme intervention is currently being implemented or earmarked for implementation, but requires additional funding or expansion of coverage area

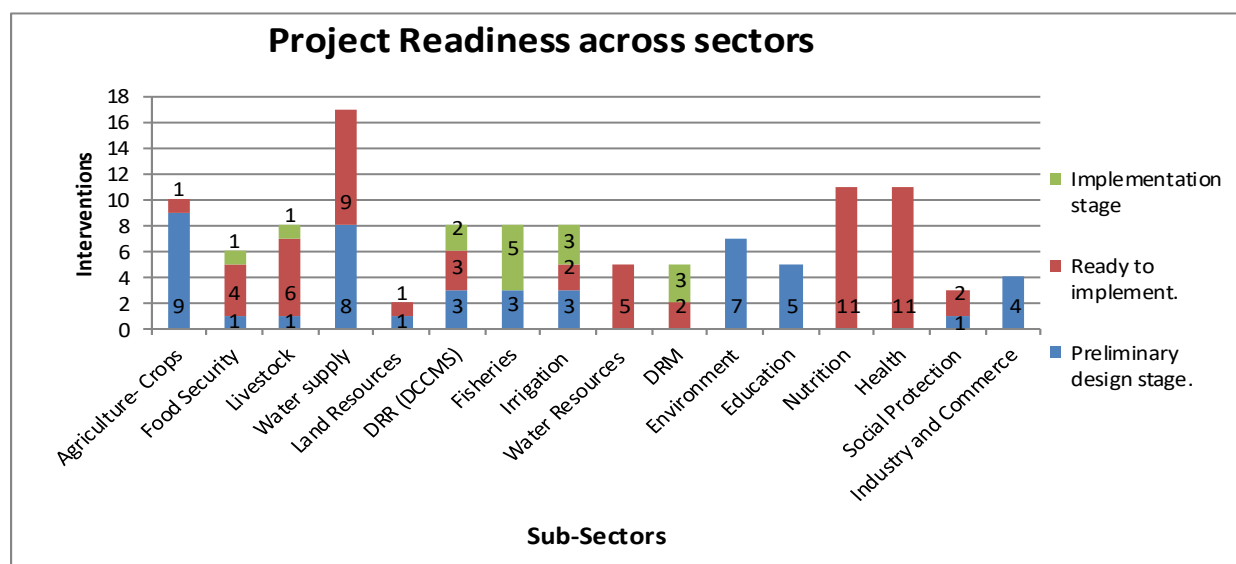
Figure 5 highlights the implementation readiness for the various sector programmes. Several sectors identify interventions that are at the implementation stage, such as food security, livestock, DRR, fisheries, irrigation, and DRM. This information provides strategic directions for where additional funding can immediately support recovery efforts. Fisheries indicated that five of eight interventions are at the implementation stage and are prepared for immediate support. These activities require an estimated US\$1 million (MWK 750 million) for the production of fingerlings in four Government farms and 220 selected fish farms (US\$313,000/MWK 235 million); stocking of 15 million fingerlings (US\$140,000/MWK 105 million); integrated fish farming and irrigation (US\$213,000/MWK 160 million); development of post-harvest technologies (US\$227,000/MWK 170 million); and training women and youth on the development of value-added fish products and business management (US\$113,000/MWK 85 million).

The graph also indicates that most sectors have a significant number of interventions that are in the ready to implement stage, meaning that once funding is available, the implementation of the recovery activities can be expedited. However, there are some sectors that also have a significant number of interventions



currently in the preliminary design stage and that require preparatory activities before financing can be utilised.

**Figure 5: Implementation Readiness of Recovery Interventions**



## Sectoral, Cross-sectoral, and Geo-spatial Prioritisation

### Methodology

The objective of prioritisation is to ensure that resources are used to address needs that will bring immediate and long-lasting changes to those who were most affected by the disaster. Understanding that there is a finite amount of recovery financing, it is important that recovery and reconstruction interventions are prioritised within and across sectors. This will put emphasis on interventions that are crucial in building back better in the short, medium, and long term.

Within sectors, prioritisation was conducted by the corresponding representative from each MDA. Interventions were assessed against the following prioritisation criteria:

1. In areas most affected by the disaster, as identified in PDNA
2. Those that address pro-poor, pro-vulnerable, and gender-sensitive agendas
3. Availability of funding (i.e. funds for implementation known/present)
4. Those that present quick or that are linked to existing projects that ensure speedy delivery of tangible results
5. Availability of implementation capacity, or the ability to mobilise needed capacity quickly

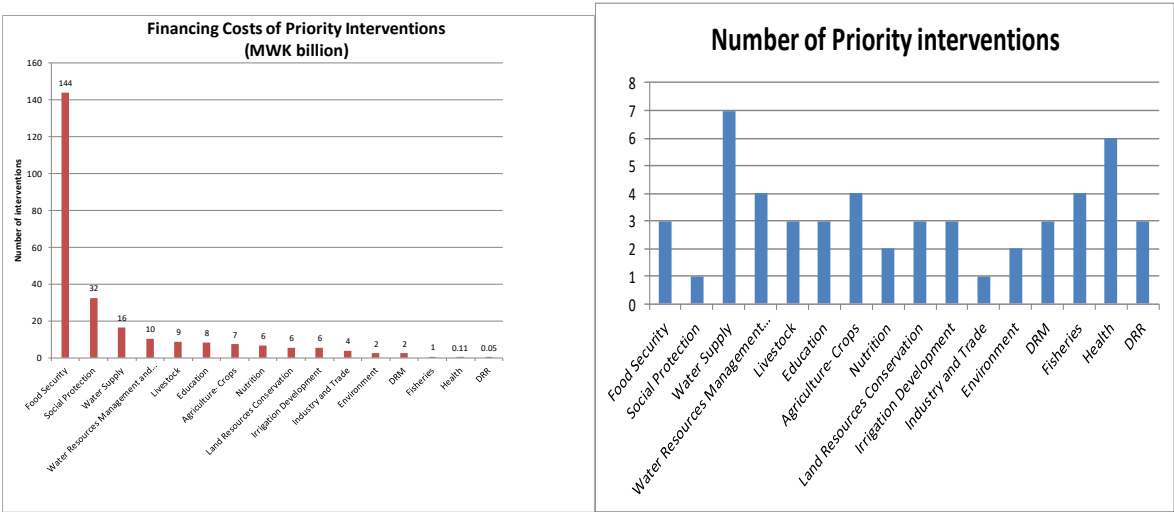
One point was provided for each area of alignment and aggregated for a total score between 1 and 5 (Intervention Score = IS). Further rankings of high, medium, and low priorities were provided based on recovery needs and the sectoral knowledge of the activity (Intervention Priority = IP). Justifications were given when priorities differed from generated score. Sectoral prioritisation was also conducted by the IDRPT to identify which sectors are most critical to an effective recovery process. This was done by scoring sectors 1–5 based on alignment with the PDNA results (i.e. damages, losses, and recovery needs) and the alignment of the sectors programmatic interventions with the four SOs (Sector Priority = SP). Cross-

sectoral prioritisation was determined by calculating the total SP, the average IS, and the average IP for each sector.

$$\text{Cross-Sectoral Priority} = \text{Avg. IS} + \text{Avg. IP} + \text{SP}$$

### Sectoral Priorities

Figure 6: Sectoral Priorities



Sector teams identified a total of 142 programmatic recovery interventions. These interventions were assessed against the prioritisation criteria described in the methodology above, and divided into three categories to identify urgent areas of support within each sector. The highest priority (priority 1) has a total of 52 sector interventions, while priorities 2 and 3 have 61 and 29 interventions, respectively. Water supply (7) and health (6) have the greatest number of priority 1 interventions, while most sectors have priority 3 interventions. However, as can be seen in Figure 6, the number of priority interventions does not correlate to the highest financial needs for priority interventions within sectors, which will be described in more detail below.

### Cross-sectoral Priorities

Cross-sectoral prioritisation is a critical step to guide resource allocation and interventions for a multi-year recovery programme, helping identify core recovery interventions and opportunities to link recovery across sectors and districts, as well as providing the greatest opportunity for leveraging resources and expertise. A defined framework of cross-sectoral priorities will support the co-ordination of multi-stakeholder recovery planning, financing, and implementation. In addition, it should ensure that recovery is implemented in an equitable and phased manner to avoid gaps and duplication of efforts.

For this framework, cross-sectoral prioritisation was conducted by the IDRPT. This process was based on an analysis of priority district and national interventions, as well as recovery and reconstruction needs identified in the PDNA. Cross-sectoral discussions were facilitated between sector representatives to

identify linkages and sequences of activities. The process of cross-sectoral and geo-spatial prioritisation will need to be regularly revisited as recovery priorities evolve and interventions are implemented.

The IDRPT identified 32 cross-sectoral priority interventions across six priority sectors: water resources management and development (3); irrigation development (3); food security (3); agriculture (crops, livestock, fisheries, and land resources conservation); the environment (2); and water supply (7). These interventions were all identified as top priorities in each sector and require a total of US\$357 million (MWK 268 billion) in recovery financing for implementation.

While these sectors have been identified as top priorities, implementation of identified interventions are not sequential, dependent on implementing higher priority interventions first. This assessment is intended solely to objectively guide implementing partners and donors towards priority 1 interventions based on criteria developed to ensure equitable and resilient recovery. It should be noted, however, that MDAs and the IDRPT have assessed implementation constraints to priority interventions and have identified activities that are prerequisites to implementation. For further details on all cross-sectoral priorities and linking required initiatives refer to Annex 3.

### Water Resources Management and Development

Water resources management and development was determined to be the top priority sector for recovery. **Three priority 1 interventions were identified under the water resources management and development sector, with a total financial need of US\$13.6 million (MWK 10.2 billion).** These interventions include rehabilitation of 50 damaged dams, construction of 50 excavated tanks, and campaigns for the prioritisation of critical water uses in eight dam catchments for major water supply dams. However, to implement these interventions, it is necessary to co-ordinate with the land resources conservation and the environment sector to conduct staff and farmer training in soil and water conservation technologies and catchment management interventions, which will require up to an estimated at US\$5.6 million (MWK 4.2 billion). These interventions could be implemented in parallel given the number of dams and excavated tanks for construction. Therefore, it is important that resource mobilisation and prioritisation also considers the financial needs required for training to ensure sustainability.

### Irrigation

**The IDRPT identified irrigation as the second priority sector, with estimated financial needs of US\$97 million (MWK 73 billion) required to implement three priority 1 interventions.** Irrigation priority 1 interventions include the development of new irrigation schemes for both income and food security at both farmer and national levels and promotion and development of climate-smart and water-efficient irrigation methods by utilising solar-powered irrigation pumps and drip kits. These interventions are potentially dependent on a number of prerequisite activities internally and across the land resources conservation and the environment sector and the water resources management and development sector. It is therefore recommended that the Department of Irrigation closely work with other MDAs to sequence activities, and donor and implementing partners fully assess the financial costs of both priority and required interventions. The total financial cost for the implementation of the required initiatives is estimated at US\$13 million (MWK 10 billion).

## Food Security

**Food Security is the third greatest recovery priority and requires an estimated financial need of US\$191.5 million (MWK 144 billion).** The procurement of 375,000MT of maize for humanitarian consumption in the sectors key requirement, which should be complemented by sensitisation of communities on food diversification, and enhancement of food budgeting for vulnerable households. These interventions are linked to 6 prerequisite activities with an estimated value of US\$13 million (MWK 10 billion), and should be planned and implemented in coordination with the Ministry of Agriculture Irrigation and Water Development and DoDMA.

## Agriculture (Crops, Livestock, Fisheries, and Land Resource Conservation)

The agriculture sector is the fourth priority sector and comprises four sub-sectors: crops, livestock, fisheries, and land resource conservation. **The total financial needs required for the implementation of priority 1 interventions in this sector were estimated at US\$29 million (MWK 22 billion).** The agriculture sector comprises 14 priority 1 interventions, including legume crop production enhancement; introduction of new crop varieties, fertiliser, pesticides, and herbicides promotion of small stock production programmes targeting chickens and goats; and production of fingerlings in four government farms and 220 selected fish farms. The agriculture sector should co-ordinate planning and implementation with representatives from irrigation development, environment, water resources management and development, DCCMS and DoDMA, as a total of 18 required interventions link to these priority activities. The total cost for the required initiatives needed in the implementation support for the priority 1 interventions is estimated at US\$128 million (MWK 96 billion) (see Annex 4).

## The Environment

The fifth priority sector as determined by the IDRPT was the environment sector. **The estimated total financial requirement for implementation of priority 1 interventions in this sector is US\$3 million (MWK 2 billion).** The sector comprises two priority 1 interventions, including the promote of afforestation and reforestation, and improvement of early warning systems. There are no required interventions obstructing implementation, and it is strongly recommended that resource needs should be prioritized in budget allocations and DP contributions.

## Water Supply

**The IDRPT identified the water supply sector as the sixth priority sector, with an estimated total financial need of US\$22 million (MWK 17 billion).** The sector consists of seven priority 1 interventions, including construction of emergency high-yielding boreholes to augment the water supply in Blantyre and Lilongwe. To implement the sector's priority 1 interventions, the water supply sector should co-ordinate internally with the social protection sector to accommodate the recommended public works. The total estimated financial cost for the implementation of required initiatives is US\$19.6 million (MWK 14.7 billion).

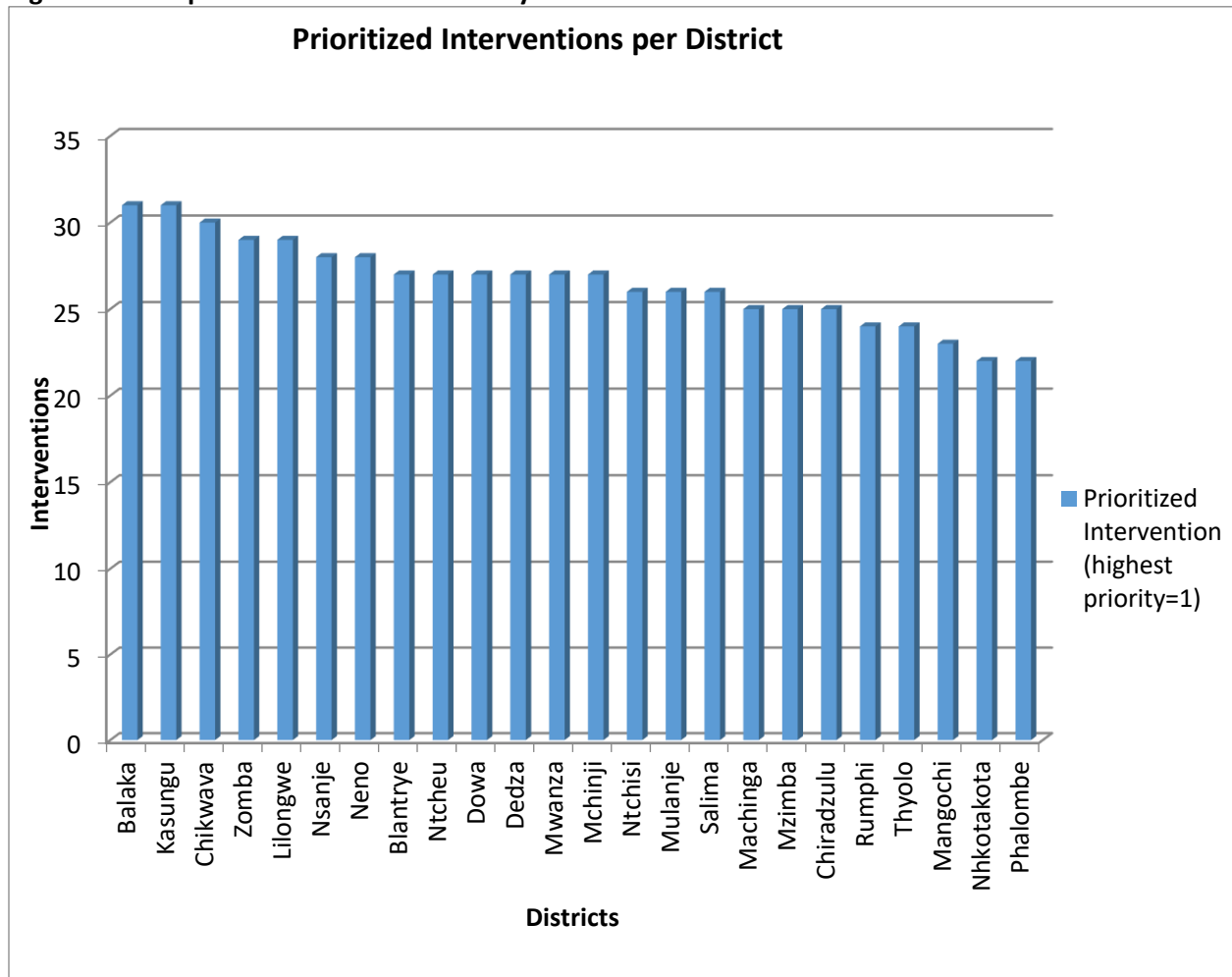
**Table 6: Priority 1 Interventions Recovery Financing Needs**

Core Programmatic Intervention (highest priority = 1)	Number of priority interventions	Financing cost MWK billion	Financing cost US\$ million
Agriculture- Crops	4	7.3	10
Food Security	3	143.6	192
Livestock	4	8.6	12
Water Supply	7	16.3	22
Land Resources Conservation	3	5.5	7
DRR (DCCMS)	3	0.05	0
Fisheries	3	0.6	1
Irrigation Development	3	73.0	97
Water Resources Management and Development	3	10.0	14
DRM	3	2.0	3
Environment	2	2.0	3
Education	3	8.0	11
Nutrition	2	6.0	9
Health	6	0.11	0
Social Protection	2	32.0	43
Industry and Commerce	1	4.0	5
<b>Total</b>	<b>52</b>	<b>319.06</b>	<b>429</b>

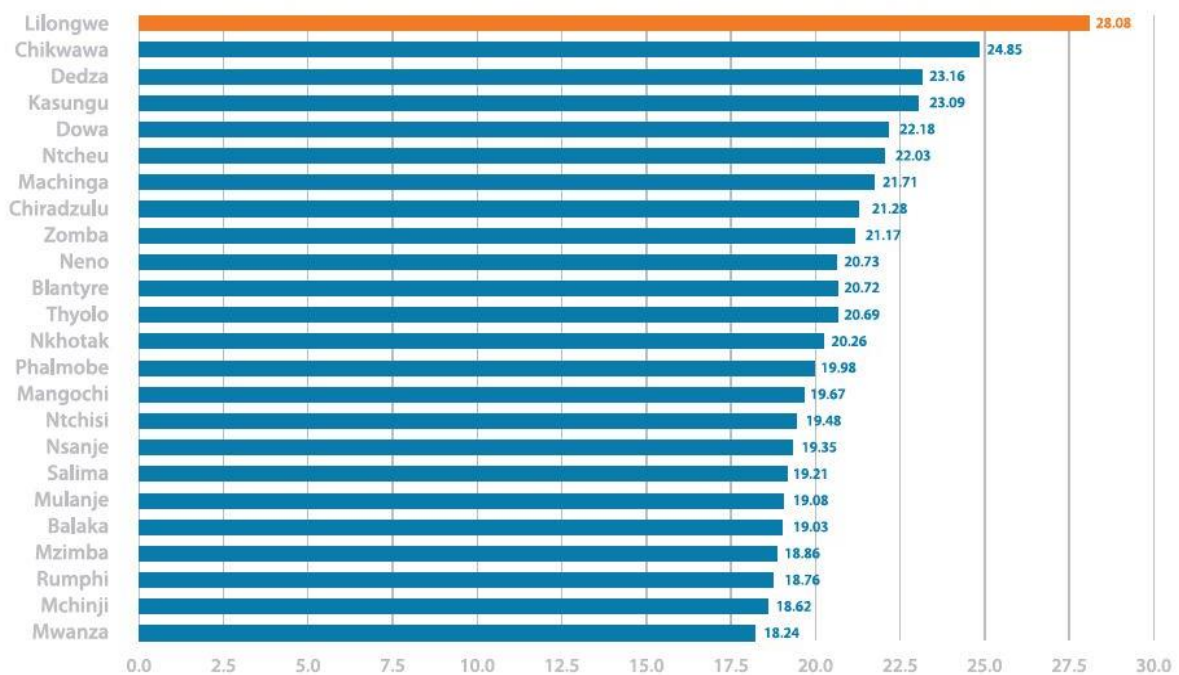
### Geo-spatial Priorities

The IDRPT assessed the geo-spatial distribution of priority 1 recovery interventions across affected districts to identify areas of concentrated need. The priority 1 interventions were aligned with the districts based on the PDNA (Figure 7). While the distribution of interventions is broadly consistent across the 24 districts, the greatest amounts of priority 1 interventions are located in Chikwawa, Dedza, and Kasungu (Figure 8). This consistency suggests that the priority 1 interventions are national in scale and universally address similar recovery needs across districts. This can be further explained by the fact that the priority 1 interventions are necessary for all the affected districts and benefit all communities.

Figure 7: Geo-spatial Distribution of Priority 1 Interventions



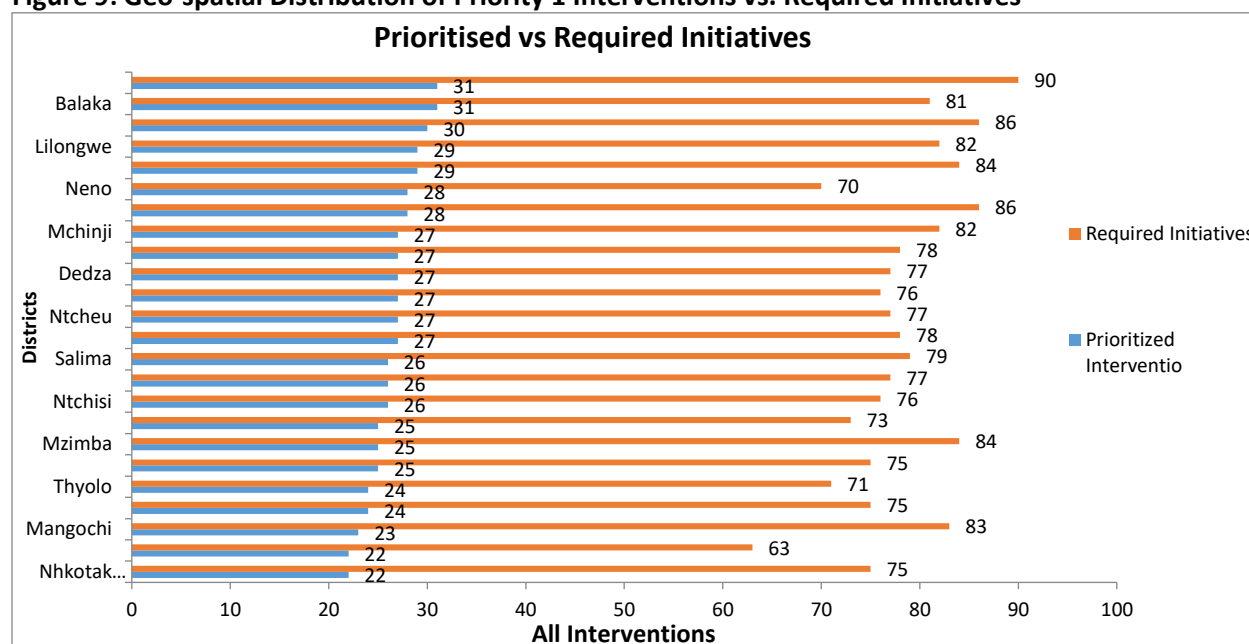
**Figure 8: Distribution of Needs by District**



Source: 2016 Drought PDNA.

However, an assessment of priority 1 interventions compared to the activities required for their implementation highlights the geo-spatial areas with limited boundaries towards implementation. This offers opportunities for quick wins. For example, Phalombe has the fewest number of priority 1 interventions, but these interventions also have the least amount of constraints, which offers a quicker path towards recovery. In the development of recovery plans, all actors should consider these conditions, and prioritise planning based on areas of greatest need, concentration of priorities, and required interventions for their implementation (see Figure 9).

**Figure 9: Geo-spatial Distribution of Priority 1 Interventions vs. Required Initiatives**



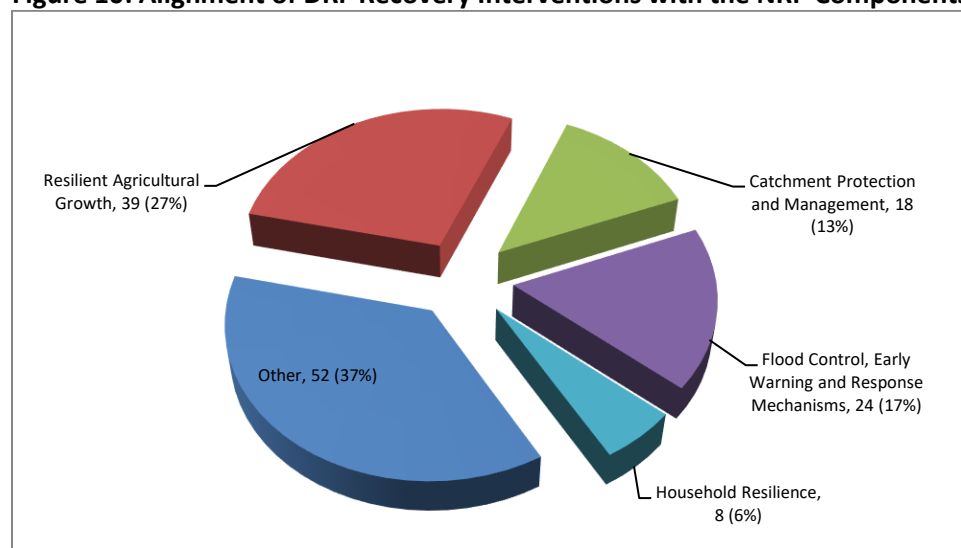
### NDRF Alignment with National Resilience Plan

The objective of the NDRF is to bring resilience to communities recovering from disaster through improved multi-stakeholder co-ordination and prioritised and sequenced recovery implementation. The NRP goes beyond issues of post-disaster recovery to establish a blueprint for harmonising disaster resilience efforts in Malawi, which the NDRF directly supports. The NRP and the NDRF are complementary in nature, both responding to disaster risks but through different stages of the DRM cycle. The NDRF is developed in response to a disaster, while resilience activities are informed by recovery priorities of affected communities. These activities often fall within the framework of the NRP and help achieve national goals of strengthening resilience and improving the operation modalities of DRM.

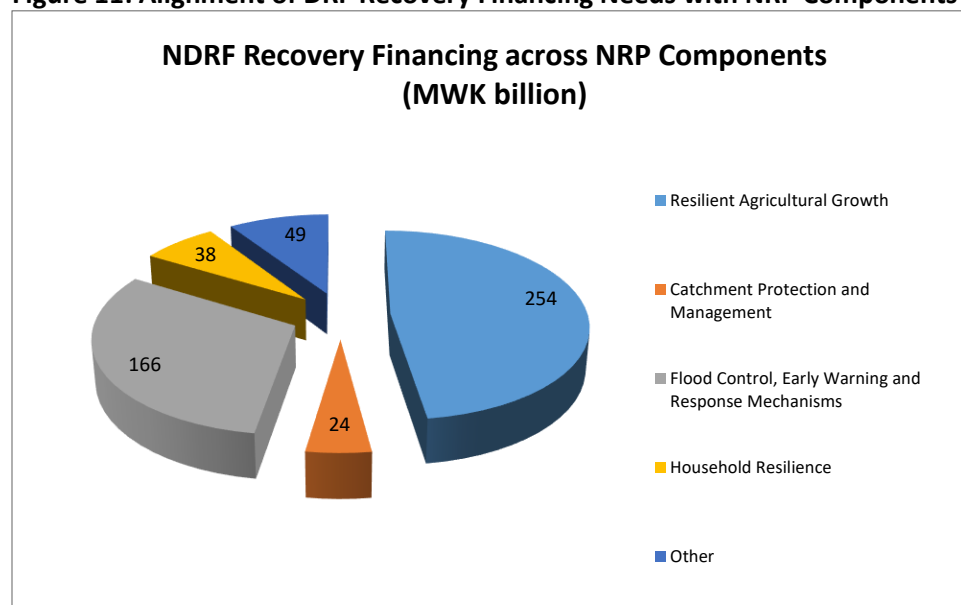
Resilient recovery and reconstruction is critical to avoiding the creation of new risks. The NDRF was developed to ensure that activities help build back better and facilitate an efficient and effective recovery. The NDRF interventions are mapped to the components and associated priority areas of the NRP to strengthen planning, financing, and implementation of pre- and post-disaster resilience-building initiatives. This creates an actionable road map to operationalise NRP priorities and helps bridge the gap between recovery and resilience planning and financing.



**Figure 10: Alignment of DRF Recovery Interventions with the NRP Components**



**Figure 11: Alignment of DRF Recovery Financing Needs with NRP Components**



As Figure 10 illustrates, **63 percent of NDRF interventions respond directly to resilience efforts of the NRP**. The strongest relationship is within Component 1: Resilient Agricultural Growth, where 27 percent (39) of the 142 recovery interventions are in alignment. This is followed by Component 3: Flood Control, Early Warning and Response Mechanisms, 17 percent (24); Component 2: Catchment Protection and Management, 13 percent (18); and Component 4: Household Resilience, 6 percent (8). The remaining 37 percent of interventions are outside the components of the NRP. Details of how NRP aligned with specific priority areas within NRP can be found in Annex 5.

#### NDRF Recovery Financing across NRP Components and Priority Areas

The NDRF requires an estimated US\$708 million (MWK 531 billion) for recovery, of which 91 percent is linked to resilience-building components of the NRP. More than 50 percent (US\$338 million/MWK 254 billion) supports activities under the Resilient Agricultural Growth component of the NRP, and an

additional US\$221 million (MWK 166 billion) is required for activities under Component 3: Flood Control, Early Warning and Response Mechanisms (Figure 11). The remaining US\$82.5 million (MWK 61.9 billion) supports issues under Household Resilience and Catchment Protection and Management and US\$66 million (MWK 50 billion) (9 percent of the total NDRF budget) are not covered by the NRP components. As shown in Table 7, financing under NRP Component 1: Resilient Agricultural Growth and Component 3: Flood Control, Early Warning and Response Mechanisms is largely concentrated in three NRP priorities areas: Response Mechanism for Building Resilience (US\$213 million/MWK 160 billion), Efficient Management of the Strategic Grain Reserve (SGR) (US\$227 million/MWK 117 billion), and Sustainable Irrigation Development (US\$121 million/MWK 91 billion). These linkages explain the strong complementarity of the two frameworks and reinforce the importance of ensuring strong co-ordination between implementing MDAs, DPs, and donors to forge clear linkages between the NDRF and the NRP. Further details on the alignment of all NDRF interventions to the NRP can be found in Annexes 4 and 5.

**Table 7: Alignment of DRF Financing Needs to NRP Components and Priority Areas**

NRP components	NRP priority areas	NDRF total interventions	NDRF total programme costs per component MWK million	NDRF total programme costs per component US\$ million
Resilient Agricultural Growth	Other	52	43,718	58
	Sustainable Irrigation Development	12	90,605	121
	Agricultural Diversification	20	40,462	54
	Market Development, Value Addition and Exports	2	985	1
	Efficient Management of the Strategic Grain Reserve (SGR)	4	117,340	156
	Farm Input Safety Programme Reforms	1	791	1
Catchment Protection and Management	Forest Landscape Restoration	11	128	0
	Payment for Ecosystem Services Building	7	2,115	3
Flood Control, Early Warning and Response Mechanisms	Flood Control	2	–	–
	Early Warning Systems	9	3,182	4
	Response Mechanisms as Part of Resilience Building	13	159,693	213
Household Resilience	Social Support/Protection	4	349	0
	Livelihoods	4	1,250	2
<b>Total</b>		<b>141</b>	<b>460,618</b>	<b>613</b>

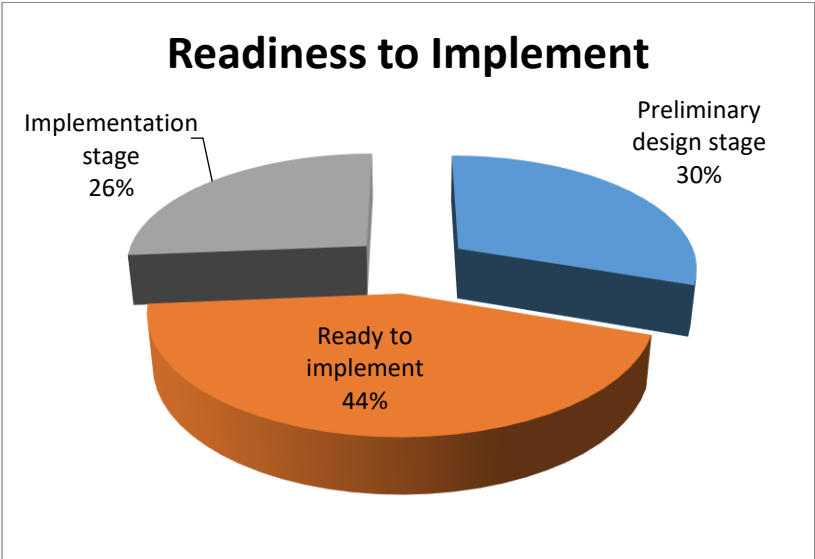
## Resource Prioritisation, Allocation, and Mobilisation

Drought recovery financial needs in the DRF were identified by the respective national sectors under the PDNA and further evaluated by the sectors during the consultative process in developing the DRF. While the PDNA estimates total damages and losses at US\$329 million (MWK 247 billion) and recovery needs at US\$510 million (MWK 383 billion), the DRF revised financial needs have been estimated at US\$708 million

(MWK 531 billion). During the prioritisation process, sectors determined that US\$427.5 million (MWK 320.6 billion) is needed for the most urgent recovery needs. Forty-four percent (US\$188 million/MWK 141 billion) of this need is for the procurement of 375,000MT of humanitarian maize. The cost variations between the PDNA and the DRF are also a reflection of a revision of the financial needs estimates and the addition of more recovery interventions in the DRF. The financial needs were disaggregated at the national sectoral level and then phased in over a five-year period based on short- to long-term priorities. More than 48 percent (US\$319 million/MWK 239 billion) of the total financial needs is required in the first two years (i.e. short-term period), of which 55 percent is required for food security.

Sectors assessed the implementation readiness of interventions to identify where resources could align with ongoing programmes and leverage existing financing to help establish quick wins. As indicated in Figure 12 and further detailed in Annex 1, 29 percent of financing for recovery is associated with interventions that are currently being implemented or earmarked for implementation, but require additional funding or expansion to coverage areas. Financing needs were further assessed against the availability of sector budget allocations and off-budget recovery financing mobilised through recovery programmes supported by DPs, CSOs, NGOs, and the private sector. The financial gaps were determined based on the total recovery needs against existing commitments from NGOs, DPs, bilateral donors, international financial institutions, and the government.

**Figure 12: DRF Recovery Interventions’ Readiness for Implementation**



**Sector and Phased Recovery Financing Needs**

**Sectors have estimated that approximately US\$708 million (MWK 531 billion) is required to implement the recovery programmes across all 24 drought-stricken districts.** As seen in Table 8, these resources have been phased in over a period of five years to address critical recovery interventions and to accommodate implementation capacity. Sectors have determined that short-term needs over a period two years require an estimated US\$343 million (MWK 257 billion). This represents roughly 48 percent of the total recovery financial needs, with US\$175 million (MWK 131 billion) required for only food security. Irrigation accounts for roughly 14 percent (US\$47 million/MWK 35 billion) of the remaining resources

required for the first two years, with the remaining 86 percent of financial needs spread across 15 different sectors.

In total, an estimated 53 percent (US\$349 million/MWK 262 billion) is needed to address urgent and long-term food security issues, such as procurement of maize, and 16 percent (US\$107 million/MWK 80 billion) is also required for irrigation development. The remaining financial needs are concentrated in five sectors—agriculture, social protection, land resources conservation and the environment, water supply, and nutrition—totalling around US\$156 million (MWK 117 billion) (24 percent).

While the drought is an emergency and requires urgent recovery support, it is imperative that financial allocations account for implementation capacity. NGOs and CSOs have an inherent flexibility to quickly mobilise capacity and can greatly support recovery implementation. Co-ordination mechanisms should identify opportunities to leverage these capacities and establish synergies with DP financing to implement recovery in alignment with the NDRF.

**Table 8: Sector Recovery Financing Needs and Phasing**

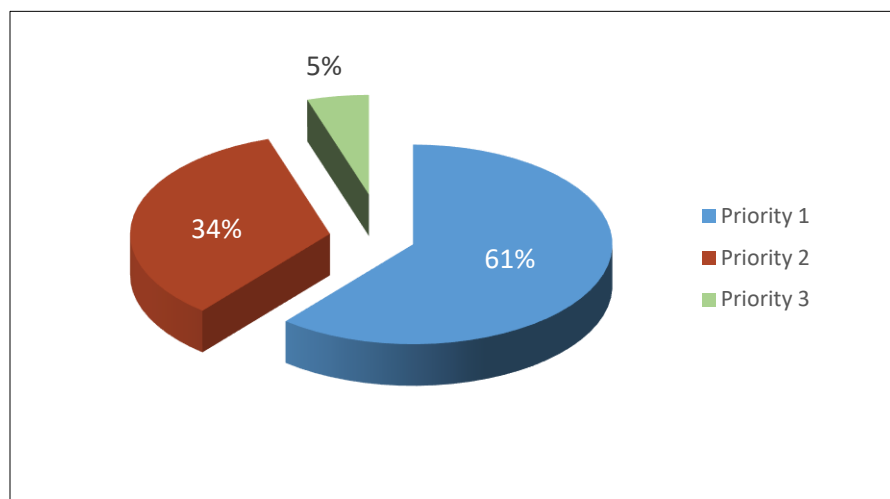
Sub-sector	FY2017+	FY2018	FY2019	FY2020	FY2021	FY2022	Total Programme Cost	Total Programme Cost
							MWK million	US\$ million
Agriculture- Crops	6,362	6,256	5,957	5,921	5,389	–	29,885	40
Food Security	65,496	65,496	52,497	52,497	26,499	–	262,485	350
Livestock	3,284	3,284	2,627	2,627	1,314	–	13,135	18
Water Supply	4,020	9,547	8,357	2,999	1,250	134	26,305	35
Land Resources Conservation	7,740	6,400	5,474	4,866	4,456	–	28,975	39
DRR (DCCMS)	34	27	14	–	–	–	75	0
Fisheries	140	195	205	200	187	292	1,219	2
Irrigation Development	12,720	21,945	22,620	7,620	7,575	7,575	80,055	107
Water Resources Management and Development	4,555	4,555	1,139	1,139	–	–	11,388	15
DRM	943	943	755	755	377	–	3,773	5
Environment	971	971	777	777	389	–	3,885	5
Education	2,304	2,304	1,843	1,843	921	–	9,214	12
Nutrition	6,118	6,118	4,895	4,895	2,447	–	24,473	33
Health	42	42	33	33	17	–	167	0
Social Protection	6,436	6,436	6,436	6,436	6,436	–	32,181	43
Industry and Trade	750	750	750	750	750	–	3,748	5
<b>Total</b>	<b>121,916</b>	<b>135,308</b>	<b>114,378</b>	<b>93,357</b>	<b>58,006</b>	<b>8,001</b>	<b>530,965</b>	<b>708</b>

## Inter-sectoral Prioritisation Financing

Beyond the phased financial needs, sectors have assessed the priority levels of all interventions, based on the methodology described above. It was determined that **61 percent of all financing is required for priority one interventions, while 34 percent and 5 percent is required for priority two and three respectively.** Priority one interventions are composed for a total of 52 recovery programmes with financial needs estimated at over US\$427.5 million (MWK 320.6 billion). Social sectors such as education, health, nutrition, and social protection including food security constitute the highest financial needs for priority

one interventions, and require an estimate US\$253 million (MWK 190 billion) (59 percent). These resources are most notably needed for food security (US\$192 million/MWK 144 billion), including the procurement of 375,000MT of maize for humanitarian consumption, and scaling up public works and social cash transfer programmes, which requires 10 percent (US\$43 million/MWK 32 billion) of priority one resources.

**Figure 13: DRF Recovery Financing Needs per Priority Level**



As noted in the table in Figure 14, irrigation requires the second highest amount of resources for priority 1 interventions, at a total of US\$97 million (MWK 73 billion), which is primarily required to develop new irrigation schemes for both income and food security at the farmer and national levels over the next 5 years. Including irrigation, other productive sectors, such as agriculture crops, livestock, fisheries, and trade and industry, constitute 29 percent (US\$124 million/MWK 93 billion) of the total financial cost for top prioritised recovery programmes, while physical sectors, such as water supply, water resources management and development, and land resources conservation and the environment, have estimated recovery financial needs of US\$45 million (MWK 34 billion) (11 percent), and cross-cutting sectors, such as DRM, have an estimated need of US\$3million (MWK 2billion) (1 percent).

**Figure 14: Priority 1 Intervention Financial Needs**

Core Programmatic Intervention (highest priority=1)	Number of Priority interventions	Financing cost MWK billion	Financing cost US\$ million
Agriculture- Crops	4	7	10
Food Security	3	144	192
Livestock	4	9	12
Water supply	7	16	22
Land Resources Conservation	3	6	7
DRR	3	0	0
Fisheries	3	1	1
Irrigation Development	3	73	97
Water Resources Management and Development	3	10	14
Disaster Risk Management	3	2	3
Environment	2	2	3

Education	3	8	11
Nutrition	2	6	9
Health	6	0.1	0
Social Protection	2	32	43
Industry and Trade	1	4	5
Sub-sector Totals	52	321	428

## Cross-sectoral Prioritisation Financing

To strengthen the objectivity of recovery prioritisation, the IDRPT, composed of key government representatives across MDAs, assessed cross-sectoral needs based on a set of prioritisation criteria (see Annex 3). The IDRPT identified the top six priority sectors, which have an estimated total financial requirement of US\$360 million (MWK 270 billion): priority 1 – water resources management and development, US\$14 million (MWK 11 billion); priority 2 – irrigation development, US\$97 million (MWK 73 billion); priority 3 – food security, US\$192 million (MWK 144 billion); priority 4 – agriculture (crops, fisheries, livestock, and land resources conservation), US\$29 million (MWK 22 billion); priority 5 – environment, US\$2 million (MWK 3 billion); and water supply , US\$22 million (MWK 16 billion).

**Table 9: Cross-sectoral Prioritisation of Financing Needs**

Core Programmatic Intervention (highest priority = 1)	Number of priority interventions	Financing cost MWK million	Financing cost US\$ million
Water Resources Management and Development	3	10,296	14
Irrigation Development	3	73,043	97
Food Security	3	143,625	192
Agriculture (includes crops, fisheries, livestock, and land resources conservation)	14	22,052	29
Environment	2	2,372	3
Water Supply	7	16,300	22
<b>Sub-sector Totals</b>	<b>32</b>	<b>267,688</b>	<b>357</b>

While water resource management and development requires the second least amount of recovery resources, after the environment, it was ranked as a top priority. Prioritised recovery interventions for water resources management and development were proposed for the rehabilitation of 50 damaged dams (US\$7 million/MWK 5 billion), the construction of 50 excavated tanks (US\$7 million/MWK 5 billion), and campaigns for the prioritisation of critical water uses in eight dam catchments for major water supply dams (US\$617,000/MWK 463 million). These activities responded directly to the damage and needs identified in PDNA, aligned with all the DRF SOs, and displayed the ability to quickly mobilise financing to implement recovery for the most vulnerable. Details of all cross-sectoral priorities can be found in Annex 3.

Additionally, it should be noted that while cross-sectoral prioritisation analysis identified priority interventions in six key sectors, it also identified interventions that need to be implemented before these

activities can commence. These activities cut across all 16 sectors. Annex 3 provides a detailed breakdown of these required interventions and their aggregated costs.

## Financial Gap Analysis

The financing gap methodology involved collecting on- and off-budget sources of funding for recovery, including financial pledges and ongoing and planned activities supported by MDAs, DCs, NGOs, and DPs. The financial gap was determined by subtracting the total costs of recovery interventions from the total available funding (both on- and off-budget sources) for recovery. Table 10 estimates a **total financial gap of US\$142 million (MWK 106 billion)**. This is based on an estimated need of US\$708 million (MWK 531 billion) for recovery, with US\$566 million (MWK 425 billion) available through active projects or donor pledges in response to the drought.

When broken down by sector, the financial gap analysis provides a clear depiction of how funding is being mobilised for recovery. For example, **the urgent needs of food security have mobilised US\$345 million (MWK 259 billion) in commitments or pledges, addressing 99 percent of the total financial recovery needs for food security.** However, the phased financial needs for food security require US\$244 million (MWK 183 billion) from 2017 to 2019.

**As of publication, only US\$57 million (MWK 43 billion) has been committed to the top six cross-sectoral priority areas (excluding food security), which covers 28 percent of the required US\$203 million (MWK 152 billion) for recovery interventions within these sectors.** The greatest financial gap is within the irrigation development sector. The sector requires a total of US\$107 million (MWK 80 billion) for all recovery intervention and US\$97 million (MWK 73 billion) for priority 1 interventions, but to date only US\$19.6 million (MWK 14.7 billion) has been raised or pledged. This amounts to a total gap of US\$87 million (MWK 65 billion) for the sector and a gap of 80 percent for priority 1 recovery interventions. **In comparison, social protection has a commitment of 251 percent of its total required recovery intervention needs.**

This assessment highlights the inequitable distribution of financing across recovery needs. Resources are not being effectively mobilised for priority sectors and are concentrated in specific areas. To ensure resilient recovery, greater control and direction is required in guiding resources towards priorities areas. This should be supported with greater oversight by the MoFEPD and co-ordination with all implementing and financing partners. It is important to note that there is need for improvement in terms of aid tracking, on-budget finance allocation, and monitoring of the implementation of recovery projects to ensure that there is efficient resources utilisation.

**Table 10: Financial Gap Analysis**

Sub-sector	Sources of Financing (in million MWK)				Total funding gap US\$ million
	Total programme cost	Total donor available/ pledged funding	Total available funding	Funding gap	
Agriculture (crops, livestock, fisheries, land resource conservation)	73,214	15,330	15,330	57,884	77.2
Food Security	262,485	258,578	258,578	3,908	5.2
Water Supply	26,306	6,750	6,750	19,556	26.1
DRR	75	–	–	75	0.1
Irrigation Development	80,055	14,700	14,700	65,355	87.1

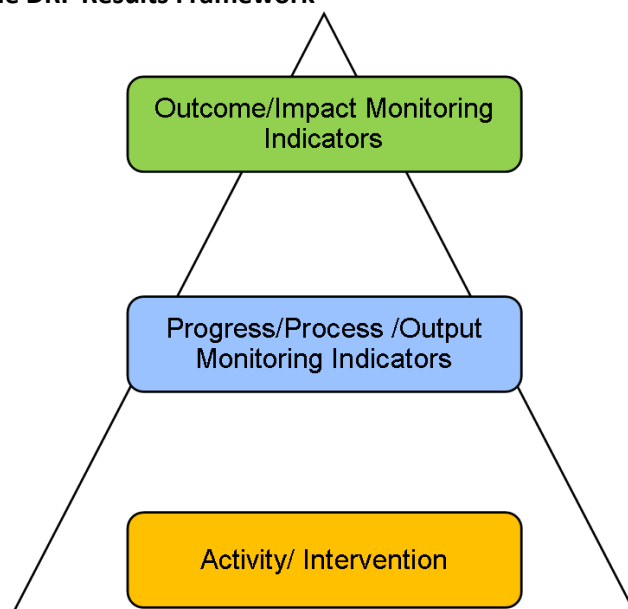
Water Resources Management and Development	11,387	6,000	6,000	5,387	7.2
DRM	3,773	1,710	1,710	2,063	2.8
Environment	3,885	–	–	3,885	5.2
Education	9,214	6,750	6,750	2,464	3.3
Nutrition	24,473	33,158	33,158	(8,684)	(11.6)
Health	167	750	750	(583)	(0.8)
Social Protection	32,181	80,865	80,865	(48,684)	(64.9)
Industry and Trade	3,748	–	–	3,748	5.0
<b>Total</b>	<b>530,965</b>	<b>424,590</b>	<b>424,590</b>	<b>106,375</b>	<b>141.8</b>

## Monitoring and Evaluation

The M&E framework of the NDRF was developed through a robust consultative process with all the key stakeholders during the planning stage. This framework serves as a broad plan for M&E, and clarifies the information to be collected to assess change associated with implementation of disaster recovery and resilience-building interventions in the country. However, the NDRF governs recovery efforts for both the 2015/16 drought and the 2015 floods and a common M&E framework should be established.

The key activities to be monitored and evaluated are those identified and prioritised for implementation by stakeholders. Unlike project-level M&E frameworks that are more detailed, this NDRF M&E framework identifies only the broad indicators for monitoring progress/process/output and outcome/impact, as presented in the results framework in Annex 6. It does not in any way substitute the specific indicators identified and utilised by sectors and institutions for M&E of sector-specific activities or interventions. The framework triangle (Figure 15) illustrates the flow used in the process of identifying indicators from the broad-based outcome/impact indicators down to specific activities required for implementation to achieve desired outputs.

**Figure 15: Structure of the DRF Results Framework**





The activities/interventions and indicators are tailored to satisfying the four basic principles of DRM as enshrined in the Sendai Framework for Disaster Risk Reduction:

- Understanding disaster risk
- Strengthening disaster risk governance to manage disaster risk
- Investing in DRR for resilience
- Enhancing disaster preparedness for effective response and to 'build back better' in recovery, rehabilitation, and reconstruction

In addressing these principles, the NDRF has focused squarely on floods and drought, which are the two major forms of disaster affecting Malawians, as evidenced in the past three decades. In this regard, the M&E framework provides specific guidance on M&E of interventions to ascertain the achievement of the SOs identified within the flood-specific recovery framework and the following objectives prioritised for the NDRF drought response:

- Enhance drought resilience and preparedness by strengthening the capacity of institutions and drought-affected communities to reduce their risk and vulnerability
- Improve food security, nutrition, and delivery of health services for the most vulnerable people in drought-affected communities
- Increase agriculture productivity and sustainability through drought-resilient irrigation infrastructure, farming practices, and technologies
- Strengthen the resilience of water resource management and supply through non-structural and structural measures

Continuous reflection on these principles is important when undertaking reviews of the NDRF M&E framework, preferably on an annual basis to ensure that only priority and measurable indicators are selected for measurement. Nevertheless, the selection of such priority indicators should be done in a consultative manner with all relevant stakeholders.

The responsibility for M&E lies with the implementing entity. The entity implementing emergency flood and drought recovery and resilience-building interventions should bear the responsibility of monitoring progress, outputs, and impact of its interventions (including quality control) and report this to the line government ministry.

Line government ministries should be required to put in place systems for receiving, consolidating, and submitting the NDRF M&E data to DoDMA.

Oversight in NDRF M&E should be provided by DoDMA. Through its data management section, DoDMA should manage all NDRF data and provide guidance in data collection, analysis, and reporting. Effectively, the role of DoDMA includes preparation and dissemination of standardised data collection and analysis tools and approaches and producing and sharing periodic reports on progress (including successes and challenges) in NDRF implementation.

At the sector level, each implementing entity should be required to identify the risks and assumptions for carrying out the planned monitoring activities and how these may affect the planned monitoring events and the quality of data collected.



# Annexes: NDRF Drought Recovery Framework Tables

## Annex 1: Interventions, Financial Phasing, and Readiness

Sector	Programme/Project Name	Programme Costs (in million xxx)												Readiness
		FY 2017 +	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Programme Cost MWK million	Total Funding MWK million	Funding Gap MWK million	Total Programme Cost US\$ million	Total Funding US\$ million	Total Funding Gap US\$ million	
Agriculture- Crops	Cereal crop production enhancement: promotion of utilisation of improved seed varieties, introduction of new crop varieties, fertiliser, pesticides, herbicides	2,224	2,224	2,224	2,224	2,224		11,121	2,750	8,371	15	4	11	Preliminary design
Agriculture- Crops	Legume crop production enhancement: promote utilisation of improved seed varieties, introduction of new crop varieties, fertiliser, pesticides, herbicides	1,167	1,167	1,167	1,167	1,167		5,835	1,000	4,835	8	1	6	Preliminary design
Agriculture- Crops	Horticultural crop production enhancement (high-value and export potential crops): support for improved nurseries with new varieties and associated marketing.	1,429	1,429	1,429	1,429	1,429		7,146	700	6,446	10	1	9	Preliminary design
Agriculture- Crops	Replacement of agricultural tools, machinery, and labour-saving technologies specifically focused on drought in affected areas.	198	198	158	158	79		791	788	3	1	1	0	Preliminary design
Agriculture- Crops	Seed Production and Multiplication Programme (cereals, legumes, vegetables, tubers, fruit trees).	158	131	105	79	53		526	1,663	(1,137)	1	2	(2)	Ready to implement
Agriculture- Crops	Post-harvest facilities: community grain stores, household level storage capacity	225	225	180	180	90		900	800	100	1	1	0	Preliminary design
Agriculture- Crops	Value chain and market linkage development: to include apiary, mushroom, herbal, non-traditional crops	225	225	180	180	90		900	1,750	(850)	1	2	(1)	Preliminary design
Agriculture- Crops	Support extension services, training, technical support, and outreach	617	617	493	493	247		2,467	1,467	1,000	3	2	1	Preliminary design
Agriculture- Crops	Infrastructure development for sustainable drought resilience and recovery programmes (Rehabilitation of warehouses and Kandiyani Irrigation Site)	48	16	8	4	4		80	784	(704)	0	1	(1)	Preliminary design

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		FY 2017 +	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Programme Cost MWK million	Total Funding MWK million	Funding Gap MWK million	Total Programme Cost US\$ million	Total Funding US\$ million	Total Funding Gap US\$ million	
Agriculture- Crops	Pasture and folder crops research enhancement: improved pasture grasses, legumes, and folder crops with drought tolerant traits for livestock	72	24	12	6	6		120			0	–	–	Preliminary design
Total Agriculture- Crops		6,362	6,256	5,957	5,921	5,389	-	29,885	11,701	18,064	40	16	24	
Food Security	Procure 375,000MT of maize for humanitarian consumption	35,156	35,156	28,125	28,125	14,063		140,625	67	140,558	188	0	187	Implementation stage
Food Security	Procure 300,000MT of maize for non-humanitarian consumption	28,125	28,125	22,500	22,500	11,250		112,500	1,000	111,500	150	1	149	Ready to implement
Food Security	Rehabilitate SGR storage facilities to 250,000MT capacity	965	965	772	772	386		3,860	700	3,160	5	1	4	Preliminary design
Food Security	Strengthen food security early warning system	500	500	500	500	500		2,500	1,500	1,000	3	2	1	Ready to implement
Food Security	Sensitise communities on food diversification	438	438	350	350	175		1,750	1,663	88	2	2	0	Ready to implement
Food Security	Enhance food budgeting of vulnerable households	313	313	250	250	125		1,250	800	450	2	1	1	Ready to implement
Total Food Security		65,496	65,496	52,497	52,497	26,499	-	262,485	5,730	256,756	350	8	342	
Livestock	Improved livestock management: vaccinations and veterinary care for affected animals	327	327	261	261	131		1,307	124	1,183	2	0	2	Implementation stage
Livestock	Promote small stock production programme targeting chickens and goats	992	992	794	794	397		3,969	1,736	2,233	5	2	3	Ready to implement
Livestock	Pasture Establishment	53	53	42	42	21		210	5	205	0	0	0	Ready to implement
Livestock	Production enhancement: multiplication of livestock in government farms	863	863	691	691	3345		3,453	105	3,348	5	0	4	Ready to implement
Livestock	Promote animal health surveillance systems	315	315	252	252	126		1,262	93	1,168	2	0	2	Ready to implement
Livestock	Conduct a research study to establish indicators on impact of drought to livestock	21	21	17	17	9		85	–	85	0	–	0	Preliminary design
Livestock	Construction of livestock infrastructure: watering points, feeding troughs	525	525	420	420	210		2,100	0	2,100	3	0	3	Ready to implement
Livestock	Promote artificial insemination programmes	188	188	150	150	75		750	26	724	1	0	1	Ready to implement

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Total Livestock		3,284	3,284	2,627	2,627	1,314	-	13,135	2,089	11,046	18	3	15	
Water Supply	Construction and development of around 40 new improved water sources/intakes for existing rural piped water supply systems	400	800	400	200	200		2,000	758	1,243	3	1	2	Ready to implement
Water Supply	Construction of approximately 30km new transmission conveyance systems/pipelines to the affected areas	400	800	400	200	200		2,000	1,500	2,000	3	2	3	Ready to implement
Water Supply	Construction of 20 new water storage tanks to increase storage capacity in some distribution systems	35	35	140	140			350	–	350	0	–	0	Ready to implement
Water Supply	Construction/Rehabilitation of Communal Water Points	30	30	120	120			300		300	0	–	0	Preliminary design
Water Supply	Rehabilitation of approximately 1,500 existing boreholes to augment to the affected areas	225	674	674	225	225		2,246	1,275	971	3	2	1	Ready to implement
Water Supply	Construction of around 54 emergency high-yielding boreholes to augment water supply in urban areas (SRWB)	380	1,522	1,522	380			3,804	750	3,054	5	1	4	Ready to implement
Water Supply	Construction of approximately 140km new transmission conveyance systems/pipelines to the affected areas (SRWB)	504	1,008	504	252	252		2,520		2,520	3	–	3	
Water Supply	Construction of three new water storage tanks to increase storage capacity in some distribution systems	108	432	216	216	108		1,080		1,080	1	–	1	
Water Supply	Installation of renewable energy for 16 high-yielding boreholes for improved water supply and resilience	48	192	192	48			480			1	–	–	
Water Supply	Construction of around 10 emergency high-yielding boreholes to augment water supply in urban areas (BWB)	200	800	800	200			2,000	–	2,000	3	–	3	Preliminary design
Water Supply	Construction of around 10 emergency high-yielding boreholes to augment water supply in urban areas (LWB)	200	800	800	200			2,000	–	2,000	3	–	3	Preliminary design
Water Supply	Construction of around 23 emergency high-yielding boreholes to augment water supply in urban areas (CRWB)	225	900	900	225			2,250	750	1,500	3	1	2	Ready to implement

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Water Supply	Installation of renewable energy for 15 high-yielding boreholes for improved water supply and resilience (CRWB)		263	132	132	132		659			1	–	–	Detailed Design Stage
Water Supply	Construction, rehabilitation, and elevation of 6 water abstraction structures (CRWB)			267	134	134	134	668			1	–	–	Preliminary design
Water Supply	Construction of around 27 emergency high-yielding boreholes to augment water supply in urban areas (NRWB)	203	810	810	203			2,025	-	2,025	3	-	3	Preliminary design
Water Supply	Extending 5 Raw Water Intake Pipelines							450		450	1	-	1	Preliminary design
Water Supply	Installation of renewable energy for 27 high-yielding boreholes for improved water supply and resilience							975		975	1	-	1	
Water Supply	Construction of rainwater harvesting (RWH) structures (sanitation and hygiene) in public institutions such as schools	50	250	150	50			500	375	125	1	1	0	Ready to implement
Total Water Supply		3,008	9,316	8,026	2,924	1,250	134	26,306	4,283	13,518	35	6	18	
Land Resources Conservation and the Environment	Crop Production										-	-	-	
Land Resources Conservation and the Environment	Implement Soil and Water Conservation Interventions like in situ RWH structures - swales, infiltration ditches/ponds	750	625	500	375	250		2,500	500	2,000	3	1	3	Implementation stage
Land Resources Conservation and the Environment	Construct stormwater drains for safe disposal of run off to avoid soil erosion	360	300	240	180	120		1,200	28	1,172	2	0	2	Implementation stage
Land Resources Conservation and the Environment	Gully reclamation	100	100	100	100	100		500	28	472	1	0	1	Implementation stage
Land Resources Conservation and the Environment	Promote agroforestry	100	100	100	100	100		500	200	300	1	0	0	Implementation stage
Land Resources Conservation and the Environment	Promote use of manures - composts, AF biomass and Khola manure	63	50	38	50	50		250	110	140	0	0	0	Implementation stage

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Land Resources Conservation and the Environment	Promote conservation agriculture	700	700	700	700	700		3,500	950	2,550	5	1	3	Implementation stage
Land Resources Conservation and the Environment	Horticultural crop production enhancement							-			-	-	-	
Land Resources Conservation and the Environment	Promote agroforestry interventions of fruit and fodder trees	140	140	140	140	140		700	-	700	1	-	1	Ready to implement
Land Resources Conservation and the Environment	Irrigation							-			-	-	-	
Land Resources Conservation and the Environment	Promote catchment management activities which include: afforestation, reforestation, agroforestry in catchments of rivers feeding Irrigation schemes	750	625	375	375	375		2,500	-	2,500	3	-	3	Ready to implement
Land Resources Conservation and the Environment	Promote in situ RWH to increase groundwater recharge	203	169	101	101	101		675	-	675	1	-	1	Ready to implement
Land Resources and the Environment Conservation	Support extension services, training, technical support and outreach							-			-	-	-	
Land Resources Conservation and the Environment	Conduct staff and farmer training in Soil and Water Conservation technologies and catchment management interventions	1,350	1,125	675	675	675		4,500	250	4,250	6	0	6	Implementation stage
Land Resources Conservation and the Environment	Disseminate IEC Materials on SWC and Catchment Mgt	450	375	375	150	150		1,500	40	1,460	2	0	2	Implementation stage
Land Resources Conservation and the Environment	Build capacity on climate information interpretation and dissemination at all levels in support of EWS	300	200	200	150	150		1,000	-	1,000	1	-	1	Ready to implement
Land Resources Conservation and the Environment	Livestock										-	-	-	
Land Resources Conservation and the Environment	Promote construction of Livestock watering points	500	500	500	500	500		2,500	-	2,500	3	-	3	Ready to implement

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Land Resources Conservation and the Environment	<b>Forestry</b>										-	-	-	
Land Resources Conservation and the Environment	Promote natural regeneration in catchments	40	40	40	40	40		200	70	130	0	0	0	Implementation stage
Land Resources Conservation and the Environment	Promote catchment management activities which include: afforestation, reforestation, agroforestry	220	220	220	220	220		1,100	120	980	1	0	1	Implementation stage
Land Resources Conservation and the Environment	<b>Water Resources Management and Development</b>										-	-	-	
Land Resources Conservation and the Environment	Promote natural regeneration in catchments	40	40	40	40	40		200	40	160	0	0	0	Ready to implement
Land Resources Conservation and the Environment	Promote catchment management activities which include: afforestation, reforestation, agroforestry	630	420	420	315	315		2,100	200	1,900	3	0	3	Implementation stage
Land Resources Conservation and the Environment	Promote Gully Reclamation	150	100	100	75	75		500	90	410	1	0	1	Implementation stage
Land Resources Conservation and the Environment	Promote in situ RWH to increase groundwater recharge	180	120	120	90	90		600	100	500	1	0	1	Implementation stage
Land Resources Conservation and the Environment	<b>Water Supply</b>										-	-	-	
Land Resources Conservation and the Environment	Promote natural regeneration in catchments	40	40	40	40	40		200	-	200	0	-	0	Ready to implement
Land Resources Conservation and the Environment	Promote catchment management activities which include: afforestation, reforestation, agroforestry	330	220	220	220	110		1,100	-	1,100	1	-	1	Ready to implement.
Land Resources Conservation and the Environment	Promote Gully Reclamation	150	100	100	100	50		500	-	500	1	-	1	Ready to implement



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Land Resources Conservation and the Environment	Promote in situ RWH to increase groundwater recharge	195	130	130	130	65		650	-	650	1	-	1	Ready to implement
Total Land Resources Conservation and the Environment		7,740	6,439	5,474	4,866	4,456	-	28,975	2,726	26,249	39	4	35	
DRR (DCCMS)	Develop a system for analysis and documentation of historical and future drought occurrence using historical data and future climate scenarios	4	3	3	-	-		10	-	10	0	-	0	Ready to Implement
DRR (DCCMS)	Analyse and document different historical droughts	3	-	-	-	-		3	-	3	0	-	0	Ready to Implement
DRR (DCCMS)	Develop future projections of droughts distribution using existing climate scenarios	3	3	-	-	-		7	-	7	0	-	0	Ready to Implement
DRR (DCCMS)	Review seasonal forecast production process to integrate drought forecast	3	3	-	-	-		5	-	5	0	-	0	Preliminary design
DRR (DCCMS)	Develop an outreach strategy for communicating drought information and impacts, including collaboration for production of impact-based information, and platform for communicating to specific sectors	6	3	-	-	-		9	-	9	0	-	0	Preliminary design
DRR (DCCMS)	Support agricultural and DRR extension services through PICSA training, technical support and outreach	11	11	11	-	-		33	-	33	0	-	0	Implementation stage
DRR (DCCMS)	Diversify utilisation of drought information in sectoral development plan through integration of climate information	2	1	-	-	-		3	-	3	0	-	0	Ready to Implement
DRR (DCCMS)	Install and maintain weather monitoring stations	-	-	-	-	-			-	-	-	-	-	Implementation stage
DRR (DCCMS)	Review and redesign drought monitoring system, including drought information archive	3	3	-	-	-		5	-	5	0	-	0	Preliminary design
Total DRR		34	27	14	-	-	-	75	-	65	0	-	0	
Fisheries	Production of fingerlings in 4 Government Farms and 220 selected fish farms	30	45	45	45	45	25	235	50	185	0	0	0	Implementation stage
Fisheries	Stocking of 15 million fingerlings in 5 years in small water bodies and ponds in 8 districts	10	15	20	20	20	20	105	70	35	0	0	0	Implementation stage
Fisheries	Implementation of integrated fish farming (fish, livestock and crops) practices among 1,500 fish farming households	30	45	45	50	55	50	275	30	245	0	0	0	Preliminary design

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Fisheries	Implementation of integrated fish farming and irrigation (stocking fingerlings in dams) in 8 districts	10	20	20	15	15	80	160	20	140	0	0	0	Implementation stage
Fisheries	Development of post-harvest technologies (solar driers, racks and smoking kilns) along Lakes Malawi, Malombe, Chiuta and the Lower Shire	15	20	20	15	15	85	170	25	145	0	0	0	Implementation stage
Fisheries	Training women and youth on the development of value added fish products and business management	15	10	15	15	15	15	85	15	70	0	0	0	Implementation stage
Fisheries	Implementation of climate smart aquaculture and water harvesting practices among 1,500 fish farming households	20	30	30	30	12	12	134			0	-	-	Preliminary design
Fisheries	Capacity building of front line staff and fish farmers on water harvesting technologies by involving LUANAR and MZUNI)	10	10	10	10	10	5	55			0	-	-	Preliminary design
Total Fisheries		140	195	205	200	187	292	1,219	210	820	2	0	1	
Irrigation Development	Promotion and development of climate smart and water efficient irrigation methods by utilising solar powered irrigation pumps and drip kits	630	4,125	-	-	-	-	4,755	4,755		6	6	-	Implementation stage
Irrigation Development	Development of new irrigation schemes for both income and food security at both famers and national level	7,500	13,200	22,500	7,500	7,500	7,500	65,700			88	-	-	Ready to implement
Irrigation Development	Rehabilitation and reconstruction of damaged and existing irrigation schemes taking into account issues of climate change and building back better	1,088	1,500	-	-	-	-	2,588	2,588		3	3	-	Ready to implement
Irrigation Development	Promotion of river impoundments for utilisation new and existing irrigation schemes	75	75	75	75	75	75	450	450		1	1	-	Preliminary design
Irrigation Development	Construction of irrigation dams for water storage and utilisation during the times of dry spells/droughts and low river base flows	3,000	3,000	-	-	-	-	6,000	6,000		8	8	-	Implementation stage
Irrigation Development	Distribution of manual irrigation pumps (treadle pumps) to vulnerable irrigation farmers in place where treadle pumps can be used sustainably	383	-	-	-	-	-	383			1	-	-	Preliminary design

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Irrigation Development	Capacity building of national irrigation engineers in practical and basic skill in sustainable irrigation planning, development and management	45	45	45	45	-	-	180			0	-	-	Implementation stage
Total Irrigation Development		12,720	21,945	22,620	7,620	7,575	7,575	80,055	13,793	-	107	18	-	
Water Resources Management and Development	Water resources catchment rehabilitation and protection in 15 hotspots	287	287	72	72			717	717	-	1	1	-	ready to implement
Water Resources Management and Development	Rehabilitation of 50 damaged dams	1,968	1,968	492	492			4,919	2,462	2,457	7	3	3	ready to implement
Water Resources Management and Development	Construction of 50 excavated tanks	1,966	1,966	491	491			4,914	2,464	2,450	7	3	3	ready to implement
Water Resources Management and Development	Setting up drought monitoring system (low-flow water level and discharge monitoring) in 8 dam catchments	150	150	38	38			375	-	375	1	-	1	ready to implement
Water Resources Management and Development	Campaigns for prioritisation of critical water uses in 8 dam catchments	185	185	46	46			463	-	463	1	-	1	ready to implement
Total Water Resources Management and Development		4,555	4,555	1,139	1,139	-	-	11,387	5,643	5,744	15	8	8	
DRM	Emergency Disaster Response and Recovery programme	266	266	213	213	106		1,063	1,663	(600)	1	2	(1)	Under Implementation
DRM	Co-ordination of humanitarian response triggered by the MVAC assessments	175	175	140	140	70		700	800	(100)	1	1	(0)	Under Implementation
DRM	Emergency Preparedness Logistical Readiness	230	230	184	184	92		921	1,750	(829)	1	2	(1)	Implementation stage
DRM	Institutional Capacity Strengthening	39	39	32	32	16		158	1,467	(1,310)	0	2	(2)	Ready to implement
DRM	Drought Risk Financing Management programming - shock minimisation to development progress and fiscal stability	88	88	70	70	35		350	784	(434)	0	1	(1)	Preliminary design
DRM	Resilience and Risk Reduction Programmes (e.g. community based mitigation works)	146	146	116	116	58		582	450	132	1	1	0	Ready to implement
Total DRM		943	943	755	755	377	-	3,773	6,914	(3,141)	5	9	(4)	
Environment	Construct water points for wildlife	16	16	13	13	6		64	-	64	0	-	0	Preliminary design

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Environment	Strengthen fire management	113	113	90	90	45		450	-	450	1	-	1	Preliminary design
Environment	Promote afforestation and reforestation	529	529	423	423	212		2,115	-	2,115	3	-	3	Preliminary design
Environment	Harmonise sectorial policies	-	-	-	-	-		-	-	-	-	-	-	Preliminary design
Environment	Improve early warning systems	64	64	51	51	26		257	-	257	0	-	0	Preliminary design
Environment	Promote natural regeneration	32	32	26	26	13		128	-	128	0	-	0	Preliminary design
Environment	Strengthen capacity	164	164	131	131	66		656	-	656	1	-	1	Preliminary design
Environment	Conduct awareness campaign and sensitisation	54	54	43	43	22		215	-	215	0	-	0	Preliminary design
Total Environment		971	971	777	777	389	-	3,885	-	3,885	5	-	5	
Education	Reconstruct water taps and boreholes	630	630	504	504	252		2,519	-	2,519	3	-	3	Preliminary design
Education	Conduct WASH training and education campaigns	139	139	111	111	56		557	-	557	1	-	1	Preliminary design
Education	Restore food production in schools	87	87	70	70	35		349	-	349	0	-	0	Preliminary design
Education	Provide food and nutrition recovery	1,305	1,305	1,044	1,044	522		5,218	-	5,218	7	-	7	Preliminary design
Education	Develop psychosocial and other resilience strategies	143	143	114	114	57		571	-	571	1	-	1	Preliminary design
Total Education		2,304	2,304	1,843	1,843	921	-	9,214	-	9,214	12	-	12	
Nutrition	Provide severe acute malnutrition (SAM) and moderate acute malnutrition (MAM) treatment to children under 5 years of age (OTP+NRU)	749	749	599	599	299		2,994	-	2,994	4	-	4	Ready to implement
Nutrition	Provide nutrition care, support and treatment (NCST) – SAM & MAM – to adolescents & adults with HIV/TB	864	864	691	691	346		3,456	-	3,456	5	-	5	Ready to implement
Nutrition	Conduct nutrition surveillance	1,103	1,103	882	882	441		4,411	-	4,411	6	-	6	Ready to implement
Nutrition	Conduct M&E	71	71	57	57	29		285	-	285	0	-	0	Ready to implement

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Nutrition	Provide children under 5 and pregnant/lactating women MAM treatment (SFP+SFP-PLW)	549	549	439	439	220		2,197	-	2,197	3	-	3	Ready to implement
Nutrition	Build capacity of and procure materials for CMAM programme	544	544	435	435	218		2,175		2,175	3	-	3	Ready to implement
Nutrition	Build capacity for NCST	480	480	384	384	192		1,922		1,922	3	-	3	Ready to implement
Nutrition	Conduct pilot of micronutrient powders (MNP) (22 micronutrients) in South	928	928	742	742	371		3,711		3,711	5	-	5	Ready to implement
Nutrition	Promote nutrition through Positive Deviance approach (behaviour change communication) programme	188	188	150	150	75		750		750	1	-	1	Ready to implement
Nutrition	Conduct biofortification pilot in six districts (integrate with agriculture sector)	375	375	300	300	150		1,500		1,500	2	-	2	Ready to implement
Nutrition	Refurbish Nutrition Rehabilitation Units (NRUs)	268	268	214	214	107		1,071		1,071	1	-	1	Ready to implement
Total Nutrition		6,118	6,118	4,895	4,895	2,447	-	24,473	-	24,473	33	-	33	
Health	Build capacity of health workers on disease surveillance	3	3	2	2	1		12	-	12	0	-	0	Ready to implement
Health	Strengthen co-ordination and disaster management, including supervision	2	2	2	2	1		8	-	8	0	-	0	Ready to implement
Health	Conduct surveillance on early warning and information systems	1	1	1	1	0		5	-	5	0	-	0	Ready to implement
Health	Provide drugs and medical supplies -including ORS, HTH	4	4	3	3	1		14	-	14	0	-	0	Ready to implement
Health	Conduct mobile clinics and outreach including additional village clinics	2	2	2	2	1		9	-	9	0	-	0	Ready to implement
Health	Refer/transport patients to district hospitals from peripheral health facilities, including pregnant women	1	1	1	1	0		4		4	0	-	0	Ready to implement
Health	Provide health care by Christian Health Association of Malawi (CHAM) facilities to pregnant women and under 5 children	1	1	1	1	0		3		3	0	-	0	Ready to implement
Health	Control disease outbreaks	1	1	1	1	1		6		6	0	-	0	Ready to implement
Health	Conduct vector control and health promotion/IEC campaigns (IRS/ITNs & immunisation) and immunisation days	17	17	13	13	7		67		67	0	-	0	Ready to implement

Sector	Programme/Project Name	Programme Costs (in million xxx)												Readiness
		FY 2017 +	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total Programme Cost MWK million	Total Funding MWK million	Funding Gap MWK million	Total Programme Cost US\$ million	Total Funding US\$ million	Total Funding Gap US\$ million	
Health	Provide health management of gender-based violence and services for women and girls, including family planning	8	8	6	6	3		32		32	0	-	0	Ready to implement
Health	Provide psychosocial support and reproductive health services	2	2	2	2	1		8		8	0	-	0	Ready to implement
<b>Total Health</b>		<b>42</b>	<b>42</b>	<b>33</b>	<b>33</b>	<b>17</b>	<b>-</b>	<b>167</b>	<b>-</b>	<b>167</b>	<b>0</b>	<b>-</b>	<b>0</b>	
Social Protection	Scale up public works programmes in districts affected by drought	2,541	2,541	2,541	2,541	2,541		12,706			17	-	-	Ready to implement.
Social Protection	Scale up social cash transfer programme	3,895	3,895	3,895	3,895	3,895		19,475			26	-	-	Ready to implement.
Social Protection	Establishment of a Social Support Fund										-	-	-	Preliminary design
<b>Total Social Protection</b>		<b>6,436</b>	<b>6,436</b>	<b>6,436</b>	<b>6,436</b>	<b>6,436</b>	<b>-</b>	<b>32,181</b>			<b>43</b>	<b>-</b>	<b>-</b>	
Industry and Commerce	Encourage enterprises to diversify their products										-	-	-	Preliminary design
Industry and Commerce	Create financing scheme making financing available to micro, small and medium enterprises and farmers at a lower cost	750	750	750	750	750		3,748			5	-	-	Preliminary design
Industry and Commerce	Promote small-scale enterprises										-	-	-	Preliminary design
Industry and Commerce	Provide incentives to enterprises that produce and sell products available in the country										-	-	-	Preliminary design
<b>Total Industry and Commerce</b>		<b>750</b>	<b>750</b>	<b>750</b>	<b>750</b>	<b>750</b>	<b>-</b>	<b>3,748</b>			<b>5</b>	<b>-</b>	<b>-</b>	
<b>GRAND TOTAL</b>		<b>120,903</b>	<b>135,077</b>	<b>114,047</b>	<b>93,282</b>	<b>58,006</b>	<b>8,001</b>	<b>530,965</b>	<b>53,088</b>	<b>366,861</b>	<b>708</b>	<b>71</b>	<b>489</b>	

## Annex 2: Sector Prioritisation

Sectors/sub-sectors	PDNA		Sector Frameworks				Totals			
	Most affected (i.e. damages and losses) (5)	Most needs across sectors (i.e. highest recovery needs over the next 5-year period) (5)	SO 1. Enhance drought resilience and preparedness by strengthening the capacity of institutions and drought affected communities to reduce their risk and vulnerability. (5)	SO2. Improve food security, nutrition and health services for the most vulnerable drought affected communities. (5)	SO3. Increase agriculture productivity and sustainability through drought resilience irrigation infrastructure, farming practices, and technologies. (5)	SO4. Strengthen resilience of water resource management and supply through structural and non-structural measures and enhance capacities. (5)	Sectoral rating score	Average inter-sectoral intervention score	Average sector priority ranking	Final sector rating score
Agriculture- Crops	5	5	4	5	5	2	26	4.3	1.7	<b>32</b>
Livestock	2	4	5	4	3	1	19	3.5	1.6	<b>24.1</b>
Fisheries	4	4	2	5	2	2	19	4.6	1.8	<b>25.4</b>
Land Resources Conservation and the Environment	3	4	3	4	5	5	24	2.5	2.2	<b>28.7</b>
Food security	4	5	4	5	4	3	22.75	4.3	1.7	<b>29</b>
Water Resources Management and Development	5	5	5	3	4	5	27	3.6	1.4	<b>32</b>
Water Supply	4	4	3	3	2	5	21	3.1	1.7	<b>25.8</b>
Irrigation	3	4	5	5	5	4	26	4.1	1.9	<b>32</b>
Social Protection	1	3	2	2	1	1	10	4.7	1.3	<b>16</b>
Health	3	3	1	3	2	1	13	4.5	1.6	<b>19.1</b>
Nutrition	3	3	1	3	2	1	13	3.3	2.3	<b>18.6</b>
Environment	3	3	4	3	3	5	21	3.1	2.1	<b>26.2</b>
Industry and Commerce	5	3	1	1	3	1	14	2.8	2.5	<b>19.3</b>
Education	2	2	1	1	1	1	8	4.2	1.6	<b>13.8</b>
DRR – DCCMS	1	4	5	3	3	3	19	3.9	1.7	<b>24.6</b>
DRM – DoDMA	1	4	5	1	3	4	18	3.8	1.5	<b>23.3</b>

### Annex 3: Cross-sectoral Prioritisation

Priority Sectors order	Sector	Priority Interventions	Total Programme Cost MWK million	Required Initiatives	Sector	Total Cost MWK million
1	Water Resources Management and Development	Rehabilitation of 50 damaged dams	4,919			
		Construction of 50 excavated tanks	4,914	Campaigns for prioritisation of critical water uses in 8 dam catchments for major water supply dams	Water Resources Management and Development	4,914
				Rehabilitation of 50 damaged dams	Water Resources Management and Development	463
		Campaigns for prioritisation of critical water uses in 8 dam catchments for major water supply dams	463	Conduct staff and farmer training in Soil and Water Conservation technologies and catchment management interventions	Land Resources Conservation and the Environment	4,500.0
Total water resources management and development financing cost for priority 1 interventions			10,296	Total financing cost for required interventions		9,877
2	Irrigation Development	Promotion and development of climate smart and water efficient irrigation methods by utilising solar powered irrigation pumps and drip kits	4,755	Construction of irrigation dams for water storage and utilisation during the times of dry spells/droughts and low river base flows	Irrigation Development	6,000.0
		Development of new irrigation schemes for both income and food security at both famers and national level	65,700	Promote catchment management activities which include: afforestation, reforestation, agroforestry in catchments of rivers feeding Irrigation schemes	Land Resources Conservation and the Environment	2,500.0
		Rehabilitation and reconstruction of damaged and existing irrigation schemes taking into account issues of climate change and building back better	2,588	Promote in situ RWH to increase groundwater recharge	Land Resources Conservation and the Environment	675.0
				Water resources catchment rehabilitation and protection in 15 hotspots	Water Resources Management and Development	716.8
Total irrigation development financing cost for priority 1 interventions			73,042.5	Total financing cost for required interventions		9,891.8
3	Food Security	Procure 375,000MT of maize for humanitarian consumption	140,625	Co-ordination of humanitarian response triggered by the MVAC assessments	DRM	700.0
		Sensitise communities on food diversification	1,750	Support extension services, training, technical support, and outreach	Agriculture-Crops	2,467.4
				Pasture and fodder crops research enhancement: improved pasture grasses, legumes, and folder crops with drought tolerant traits for livestock	Agriculture- Crops	*covered under crops
		Enhance food budgeting of vulnerable households	1,250	Post-harvest facilities: community grain stores, household level storage capacity	Agriculture- Crops	900.0
				Promote small stock production programme targeting chickens and goats	Livestock	3,969
				Sensitise communities on food diversification	Food security	1,750.0
Total food security financing cost for priority 1 interventions			143,625	Total financing cost for required interventions		9,786.4



Priority Sectors order	Sector	Priority Interventions	Total Programme Cost MWK million	Required Initiatives	Sector	Total Cost MWK million
4	Agriculture- Crops	Legume crop production enhancement: promote utilisation of improved seed varieties, introduction of new crop varieties, fertiliser, pesticides, herbicides	5,835	Promote Conservation Agriculture	Land Resources Conservation and the Environment	3,500.0
				Implement Soil and Water Conservation Interventions like in situ RWH structures - swales, infiltration ditches/ponds	Land Resources Conservation and the Environment	2,500.0
				Promote use of manures - composts, AF biomass and Khola manure	Land Resources Conservation and the Environment	250.0
		Replacement of agricultural tools, machinery, and labour-saving technologies focused specifically on drought in affected areas	791			
		Seed Production and Multiplication Programme (cereals, legumes, vegetables, tubers, fruit trees)	526	Rehabilitation and reconstruction of damaged and existing irrigation schemes taking into account issues of climate change and building back better	Irrigation Development	2,587.5
				Pasture and folder crops research enhancement: improved pasture grasses, legumes, and folder crops with drought tolerant traits for livestock	Agriculture- Crops	120.0
		Pasture and folder crops research enhancement: improved pasture grasses, legumes, and folder crops with drought tolerant traits for livestock	120			
	Livestock	Improved livestock management: vaccinations and veterinary care for affected animals	1,307	Construction of livestock infrastructure: watering points, feeding troughs	Livestock	2,100
				Promote animal health surveillance systems	Livestock	1,262
		Promote small stock production programme targeting chickens and goats	3,969	Pasture and folder crops research enhancement: improved pasture grasses, legumes, and folder crops with drought tolerant traits for livestock	Agriculture- Crops	*covered under crops
				Promote construction of Livestock watering points	Land Resources Conservation and the Environment	2,500.0
		Promote animal health surveillance systems	1,262			
		Construction of livestock infrastructure: watering points, feeding troughs	2,100	Promote construction of Livestock watering points	Land Resources Conservation and the Environment	*covered
	Fisheries	Production of fingerlings in 4 Government Farms and 220 selected fish farms	235			
		Implementation of integrated fish farming (fish, livestock and crops) practices among 1,500 fish farming households	275	Seed Production and Multiplication Programme (cereals, legumes, vegetables, tubers, fruit trees).	Crops	525.7
				Promote small stock production programme targeting chickens and goats	Livestock	*covered in food security

Priority Sectors order	Sector	Priority Interventions	Total Programme Cost MWK million	Required Initiatives	Sector	Total Cost MWK million	
				Development of new irrigation schemes for both income and food security at both famers and national level	Irrigation Development	65,700.0	
				Rehabilitation of 50 damaged dams	Water Resources Management and Development	4,919.2	
		Implementation of climate smart aquaculture and water harvesting practices among 1,500 fish farming households	134	Promote in situ RWH to increase groundwater recharge	Land Resources Conservation and the Environment	675.0	
				Conduct staff and farmer training in Soil and Water Conservation technologies and catchment management interventions	Land Resources Conservation and the Environment	4,500.0	
	Land Resources Conservation and the Environment	Implement Soil and Water Conservation Interventions like in situ RWH structures - swales, infiltration ditches/ponds	2,500	Construct stormwater drains for safe disposal of run off to avoid soil erosion	Land Resources Conservation and the Environment	1,200.0	
				Promote in situ RWH to increase groundwater recharge	Land Resources Conservation and the Environment	675.0	
		Gully reclamation	500				
		Promote catchment management activities which include: afforestation, reforestation, agroforestry in catchments of rivers feeding Irrigation schemes	2,500				
	Total agriculture financing cost for priority 1 interventions			22,052	Total financing cost for required interventions		96,308.4
	5	Environment	Promote afforestation and reforestation	2,115			
Improve EWS			257				
Total the environment financing cost for priority 1 interventions			2,372	Total financing cost for required interventions			
6	Water supply	Construction and development of around 40 new improved water sources/intakes for existing rural piped water supply systems	2,000				
		Construction of approximately 30km new transmission conveyance systems/pipelines to the affected areas	2,000	Construction and development of around 40 new improved water sources/intakes for existing rural piped water supply systems	Water supply	2,000.00	
				Public works programme	Social Protection	12,706.5	
		Rehabilitation of approximately 1,500 existing boreholes to augment to the affected areas	2,246				
		Construction of around 54 emergency high-yielding boreholes to augment water supply in urban areas (SRWB)	3,804				
		Construction of around 10 emergency high-yielding boreholes to augment water supply in urban areas (BWB)	2,000				

Priority Sectors order	Sector	Priority Interventions	Total Programme Cost MWK million	Required Initiatives	Sector	Total Cost MWK million
		Construction of around 10 emergency high-yielding boreholes to augment water supply in urban areas (LWB)	2,000			
		Construction of around 23 emergency high-yielding boreholes to augment water supply in urban areas (CRWB)	2,250			
<b>Total water supply financing cost for priority 1 interventions</b>			<b>16,300.5</b>	<b>Total financing cost for required interventions</b>		<b>14,706.5</b>

#### Annex 4: DRF Priority 1 Intervention Financing Alignment with NRP Components

Drought Recovery Framework Sectors	Priority Interventions	Total Programme Cost MWK million	Total Programme Cost US\$ million
<b>NDRF priority interventions not aligning with the NRP</b>			
Water Resources Management and Development	Campaigns for prioritisation of critical water uses in 8 dam catchments for major water supply dams	462.5	0.62
Fisheries	Implementation of climate smart aquaculture and water harvesting practices among 1,500 fish farming households	134.0	0.18
Water Supply	Construction and development of around 40 new improved water sources/intakes for existing rural piped water supply systems	1,000.0	1.33
	Construction of approximately 30km new transmission conveyance systems/pipelines to the affected areas	2,000.0	2.67
	Rehabilitation of approximately 1,500 existing boreholes to augment to the affected areas	2,246.5	3.00
	Construction of around 10 emergency high-yielding boreholes to augment water supply in urban areas (BWB)	2,000.0	2.67
	Construction of around 10 emergency high-yielding boreholes to augment water supply in urban areas (LWB)	2,000.0	2.67
	Construction of around 54 emergency high-yielding boreholes to augment water supply in urban areas (SRWB)	3,804.0	5.07
	Construction of around 23 emergency high-yielding boreholes to augment water supply in urban areas (CRWB)	2,250.0	3.00
DRM	Resilience and Risk Reduction Programmes (e.g. community based mitigation works,	582.1	0.78
Health	Build capacity of health workers on disease surveillance	11.6	0.02
	Provide drugs and medical supplies -including ORS, HTH	14.4	0.02
	Conduct mobile clinics and outreach including additional village clinics	9.5	0.01
	Control disease outbreaks	6.0	0.01
	Conduct vector control and health promotion/IEC campaigns (IRS/ITNs & immunisation) and immunisation days	66.8	0.09
<b>Total NDRF financing for priority interventions not aligning with the NRP</b>		<b>16,587.3</b>	<b>22.12</b>
<b>NDRF priority interventions aligning with NRP Component 1: Resilient Agricultural Growth</b>			
Water Resources Management and Development	Rehabilitation of 50 damaged dams	4,919.2	6.56
	Construction of 50 excavated tanks	4,914.0	6.55
Agricultural -Crops	Seed Production and Multiplication Programme (cereals, legumes, vegetables, tubers, fruit trees).	525.7	0.70
	Legume crop production enhancement: Promote utilisation of improved seed varieties, introduction of new crop varieties, fertiliser, pesticides, herbicides	5,835.0	7.78
	Pasture and folder crops research enhancement: improved pasture grasses, legumes, and folder crops with drought tolerant traits for livestock	120.0	0.16
Livestock	Promote small stock production programme targeting chickens and goats	3,969.0	5.29
	Improved livestock management: vaccinations and veterinary care for affected animals	1,306.6	1.74
	Promote animal health surveillance systems	1,261.5	1.68
	Construction of livestock infrastructure: watering points, feeding troughs	2,100.0	2.80
Fisheries	Production of fingerlings in 4 Government Farms and 220 selected fish farms	235.0	0.31
	Implementation of integrated fish farming (fish, livestock and crops) practices among 1,500 fish farming households	275.0	0.37
Food Security	Sensitise communities on food diversification	1,750.0	2.33
Irrigation	Development of new irrigation schemes for both income and food security at both famers and national level	65,700.0	87.60
	Promotion and development of climate smart and water efficient irrigation methods by utilising solar powered irrigation pumps and drip kits	4,755.0	6.34
<b>Total NDRF financing for priority interventions aligning with NRP Component 1: Resilient Agricultural Growth</b>		<b>97,666.1</b>	<b>130.22</b>

Drought Recovery Framework Sectors	Priority Interventions	Total Programme Cost MWK million	Total Programme Cost US\$ million
<b>NDRF priority interventions aligning with NRP Component 2: Catchment Protection and Management</b>			
Land Resources Conservation and the Environment	Implement Soil and Water Conservation Interventions like in situ RWH structures - swales, infiltration ditches/ponds	2,500.0	3.33
	Gully reclamation	500.0	0.67
	Promote catchment management activities which include: afforestation, reforestation, agroforestry in catchments of rivers feeding Irrigation schemes	2,500.0	3.33
	Promote afforestation and reforestation	2,115.3	2.82
<b>Total NDRF financing for priority interventions aligning with NRP Component 2: Catchment Protection and Management</b>		<b>7,615.3</b>	<b>10.15</b>
<b>NDRF priority interventions aligning with NRP Component 3: Flood Control, Early Warning and Response Mechanisms</b>			
Food Security	Procure 375,000MT of maize for humanitarian consumption	140,625.0	187.50
DRR (DCCMS)	Develop a system for analysis and documentation of historical and future drought occurrence using historical data and future climate scenarios	9.9	0.01
	Diversify utilisation of drought information in sectoral development plan through integration of climate information	2.8	0.00
	Support agricultural and DRR extension services through Participatory Integrated Climate Services (PICS) training, technical support and outreach	32.6	0.04
DRM	Emergency Disaster Response Planning and Recovery	1,062.5	1.42
	Co-ordination of humanitarian response triggered by the MVAC assessments	700.0	0.93
Environment	Improve early warning systems	257.1	0.34
Health	Conduct surveillance on early warning and information systems	4.6	0.01
<b>Total NDRF financing for priority interventions aligning with NRP Component 3: Flood Control, Early Warning and Response Mechanisms</b>		<b>142,694.5</b>	<b>190.26</b>
<b>NDRF priority interventions aligning with NRP Component 4: Household Resilience</b>			
Food Security	Enhance food budgeting of vulnerable households	1,250.0	1.67
Education	Reconstruct water taps and boreholes	2,519.2	3.36
	Restore food production in schools	348.8	0.47
	Provide food and nutrition recovery	5,218.2	6.96
Nutrition	Provide Severe Acute Malnutrition (SAM) and Moderate Acute Malnutrition (MAM) Treatment to children under 5 years of age (OTP+NRU)	2,994.4	3.99
	Provide Nutrition Care, Support and Treatment (NCST) – SAM & MAM – to adolescents & adults with HIV/TB	3,456.4	4.61
Social Protection	Scale up public works programmes in districts affected by drought	12,706.5	16.94
	Scale up social cash transfer programme	19,474.8	25.97
Industry and Commerce	Create financing scheme making financing available to micro, small and medium enterprises and farmers at a lower cost	3,748.1	5.00
<b>Total NDRF financing for priority interventions aligning with NRP Component 4: Household Resilience</b>		<b>51,716.4</b>	<b>68.96</b>

## Annex 5: DRF Priority 1 Interventions Financing Alignment with NRP Priority Areas

DRF Sectors	Priority Interventions	Alignment with NRP Components and Priority Areas	Total Programme Cost MWK million	Total Programme Cost US\$ million
Water Resources Management and Development	Rehabilitation of 50 damaged dams	Sustainable Irrigation Development	4,919	6.6
	Construction of 50 excavated tanks	Sustainable Irrigation Development	4,914	6.6
	Campaigns for prioritisation of critical water uses in 8 dam catchments for major water supply dams	Other	463	0.6
Agricultural Research-Crops	Seed Production and Multiplication Programme (cereals, legumes, vegetables, tubers, fruit trees).	Agricultural Diversification	526	0.7
	Legume crop production enhancement: Promote utilisation of improved seed varieties, introduction of new crop varieties, fertiliser, pesticides, herbicides	Agricultural Diversification	5,835	7.8
	Pasture and fodder crops research enhancement: improved pasture grasses, legumes, and fodder crops with drought tolerant traits for livestock	Agricultural Diversification	120	0.2
Livestock	Promote small stock production programme targeting chickens and goats	Agricultural Diversification	3,969	5.3
	Improved livestock management: vaccinations and veterinary care for affected animals	Agricultural Diversification	1,307	1.7
	Promote animal health surveillance systems	Agricultural Diversification	1,262	1.7
	Construction of livestock infrastructure: watering points, feeding troughs	Agricultural Diversification	2,100	2.8
Fisheries	Production of fingerlings in 4 Government Farms and 220 selected fish farms	Agricultural Diversification	235	0.3
	Implementation of integrated fish farming (fish, livestock and crops) practices among 1,500 fish farming households	Agricultural Diversification	275	0.4
	Implementation of climate smart aquaculture and water harvesting practices among 1,500 fish farming households	Other	134	0.2
Food Security	Procure 375,000MT of maize for humanitarian consumption	Response Mechanisms as part of resilience building	140,625	187.5
	Sensitise communities on food diversification	Agricultural Diversification	1,750	2.3
	Enhance food budgeting of vulnerable households	Livelihoods	1,250	1.7
Irrigation	Development of new irrigation schemes for both income and food security at both famers and national level	Sustainable Irrigation Development	65,700	87.6
	Promotion and development of climate smart and water efficient irrigation methods by utilising solar powered irrigation pumps and drip kits	Sustainable Irrigation Development	4,755	6.3
Land Resources Conservation and the Environment	Implement Soil and Water Conservation Interventions like in situ RWH structures - swales, infiltration ditches/ponds	Forest Landscape restoration	2,500	3.3
	Gully reclamation	Forest Landscape restoration	500	0.7
	Promote catchment management activities which include: afforestation, reforestation, agroforestry in catchments of rivers feeding Irrigation schemes	Payment for ecosystem services building	2,500	3.3
Water Supply	Construction and development of around 40 new improved water sources/intakes for existing rural piped water supply systems	Other	1,000	1.3
	Construction of approximately 30km new transmission conveyance systems/pipelines to the affected areas	Other	2,000	2.7
	Rehabilitation of approximately 1,500 existing boreholes to augment to the affected areas	Other	2,246	3.0
	Construction of around 10 emergency high-yielding boreholes to augment water supply in urban areas (BWB)	Other	2,000	2.7
	Construction of around 10 emergency high-yielding boreholes to augment water supply in urban areas (LWB)	Other	2,000	2.7
	Construction of around 54 emergency high-yielding boreholes to augment water supply in urban areas (SRWB)	Other	3,804	5.1
	Construction of around 23 emergency high-yielding boreholes to augment water supply in urban areas (CRWB)	Other	2,250	3.0

DRF Sectors	Priority Interventions	Alignment with NRP Components and Priority Areas	Total Programme Cost MWK million	Total Programme Cost US\$ million
DRR (DCCMS)	Develop a system for analysis and documentation of historical and future drought occurrence using historical data and future climate scenarios	Response Mechanisms as part of resilience building	10	0.0
	Diversify utilisation of drought information in sectoral development plan through integration of climate information	Early warning systems	3	0.0
	Support agricultural and DRR extension services through Participatory Integrated Climate Services (PICS) training, technical support and outreach	Early warning systems	33	0.0
DRM	Emergency Disaster Response Planning and Recovery	Response Mechanisms as part of resilience building	1,063	1.4
	Co-ordination of humanitarian response triggered by the MVAC assessments	Response Mechanisms as part of resilience building	700	0.9
	Resilience and Risk Reduction Programmes (e.g. community based mitigation works,	Other	582	0.8
Environment	Promote afforestation and reforestation	Payment for ecosystem services building	2,115	2.8
	Improve early warning systems	Early warning systems	257	0.3
Education	Reconstruct water taps and boreholes	Livelihoods	2,519	3.4
	Restore food production in schools	Social Support/Protection	349	0.5
	Provide food and nutrition recovery	Social Support/Protection	5,218	7.0
Nutrition	Provide Severe Acute Malnutrition (SAM) and Moderate Acute Malnutrition (MAM) Treatment to children under 5 years of age (OTP+NRU)	Social Support/Protection	2,994	4.0
	Provide Nutrition Care, Support and Treatment (NCST) – SAM & MAM – to adolescents & adults with HIV/TB	Social Support/Protection	3,456	4.6
Health	Build capacity of health workers on disease surveillance	Other	12	0.0
	Conduct surveillance on early warning and information systems	Early warning systems	5	0.0
	Provide drugs and medical supplies -including ORS, HTH	Other	14	0.0
	Conduct mobile clinics and outreach including additional village clinics	Other	9	0.0
	Control disease outbreaks	Other	6	0.0
	Conduct vector control and health promotion/IEC campaigns (IRS/ITNs & immunisation) and immunisation days	Other	67	0.1
Social Protection	Scale up public works programmes in districts affected by drought	Social Support/Protection	12,706	16.9
	Scale up social cash transfer programme	Social Support/Protection	19,475	26.0
Industry and Commerce	Create financing scheme making financing available to micro, small and medium enterprises and farmers at a lower cost	Social Support/Protection	3,748	5.0
<b>Total DRF Priority 1 intervention financing alignment with NRP priority areas</b>			<b>316,280</b>	<b>421.7</b>

## Annex 6: Monitoring and Evaluation

Sector	Performance Management Framework			
	#	Activity/Intervention	Progress/Process/Output Monitoring Indicators	Outcome Monitoring Indicators
Livestock	1	Improved livestock management: vaccinations and veterinary care for affected animals	# livestock vaccinated against foot and Mouth Disease # livestock vaccinated against Newcastle disease	Meat per capita consumption % increase in livestock production
	2	Promote small stock production programme targeting chickens and goats	# of goats procured and distributed	% food secure; % increase in household level income (asset value)
			# of chickens procured and distributed	egg per capita consumption
	3	Pasture Establishment	Hectares under pasture	% increase in livestock production
	4	Production enhancement: multiplication of livestock in government farms	# of livestock multiplication programmes initiated	% increase in livestock production Meat per capita consumption Milk per capita consumption
	5	Promote animal health surveillance systems	# of staff trained in animal health surveillance systems	% increase in livestock production
	6	Conduct a research study to establish indicators on impact of drought to livestock	# of drought impact indicators adopted and disseminated	% adoption of drought impact indicators
	7	Construction of livestock infrastructure: watering points, feeding troughs	# of watering points constructed/established # of livestock (population) using the water points constructed/established	% increase in livestock production
Water Supply	8	Promote Artificial Insemination programmes	# of staff trained in AI # of AI equipment (by type) procured	% increase in livestock production
	9	Construction and development of around 40 new improved water sources/intakes for existing rural piped water supply systems	# of beneficiaries # of new water sources (by type) constructed	% of people with access to improved water sources
	10	Construction of approximately 30km new transmission conveyance systems/pipelines to the affected areas	# of beneficiaries km of transmission conveyance system constructed	% of people with access to potable water throughout the year
	11	Rehabilitation of approximately 1,500 existing boreholes to augment to the affected areas	# of beneficiaries # of schemes # and type of inputs distributed	% of people with access to potable water throughout the year
	12	Construction of around 35 emergency high-yielding boreholes to augment water supply in urban areas (SRWB and CRWB)	# of beneficiaries # of boreholes	% increase in # of urban dwellers accessing potable water
Water Resources Management and Development	13	Construction of RWH structures (sSanitation and hygiene) in public institutions such as schools	# of beneficiaries # of structures by type	% reduction of cases of water- washed diseases
	14	Water resources catchment rehabilitation and protection	# of catchments rehabilitated Area (km2) of catchments rehabilitated	% increased water level
	15	Rehabilitation of damaged dams	# of dams rehabilitated	# of households with livelihoods restored
	16	Construction of excavated tanks	# of tanks constructed Volume (cubic m) of tanks excavated	# of households with livelihoods restored
	17	Setting up drought monitoring system (low-flow water level and discharge monitoring)	# of systems set	% reduction in prioritised water usage
	18	Campaigns for prioritisation of critical water uses	# of campaigns	# of people sensitised



Sector	Performance Management Framework			
	#	Activity/Intervention	Progress/Process/Output Monitoring Indicators	Outcome Monitoring Indicators
Irrigation Department	19	Promotion and development of climate smart and water efficient irrigation methods by utilising solar powered irrigation pumps and drip kits	New area under irrigation (Ha), # of irrigation schemes # of beneficiaries	% of food secure households, % of household with increased income levels, % increase in irrigated land
	20	Development of new irrigation schemes for both income and food security at both famers and national level	New area under irrigation (Ha) # of new irrigation schemes # of beneficiaries (no)	% of food secure households, % of household with increased income levels, % increase in irrigated land
	21	Rehabilitation and reconstruction of damaged and existing irrigation schemes taking into account issues of climate change and building back better	Irrigation area restored (Ha) # of rehabilitated irrigation schemes # of beneficiaries (no)	% of food secure households, % of household with increased income levels
	22	Promotion of river impoundments for utilisation new and existing irrigation schemes	# rivers impoundment for irrigation purposes Irrigated area (Ha) benefiting from river impoundment	% increase in cropping cycles per year, incremental average yield increase per hectare
	23	Construction of irrigation dams for water storage and utilisation during the times of dry spells/droughts and low river base flows	# of dams Constructed volume (litres ) of water stored in dams for irrigation purposes	% increase in cropping cycles per year, incremental average yield increase per hectare
	24	Distribution of manual irrigation pumps (treadle pumps) to vulnerable irrigation farmers in place where treadle pumps can be used sustainably	# of treadle pumps distributed, new area (Ha) irrigated using treadle pump	% of food secure households, % of household with increased income levels
	25	Capacity building of national Irrigation Engineers in practical and basic skill in Sustainable irrigation planning, development and management	# of professional engineering training sessions and workshops, # of Engineers trained	% increase in the # of professional irrigation engineers in the country, # of engineers qualifying for professional registration
DRM	26	Provide emergency food assistance	# of beneficiaries	% of food secure households
	27	Construction of safe havens	# of safe havens constructed	% increase in flood-risk population with reliable emergency shelter
	28	Equipping Emergency operating centres	# of emergency operations centres equipped	# of operation centres equipped
	29	Post Drought Disaster Assessment	# of assessment reports	key drought impacts on different sections identified; recovery and resilience needs identified
	30	DoDMA & Local Community Capacity building in drought risk management	# of people trained # of training sessions conducted	# of people with drought risk management knowledge and skills
	31	SGR replenishment	Tonnes of maize purchased	% food secure
	32	Livelihood support to vulnerable households through IFA programmes	# of beneficiaries; # of schemes; # and type of inputs distributed	# of food secure households; # of livelihoods restored
	35	Expansion of warehouse receipt scheme	Warehouse receipt system developed	

Sector	Performance Management Framework			
	#	Activity/Intervention	Progress/Process/Output Monitoring Indicators	Outcome Monitoring Indicators
Land Resources Conservation and the Environment	36	Implement Soil and Water Conservation Interventions like in situ RWH structures - swales, infiltration ditches/ponds	Area (Ha) conserved	% increase in Ha conserved
	37	Construct stormwater drains for safe disposal of run off to avoid soil erosion	# and length of storm drains	% decrease in soil loss (ton/Ha)
	38	Gully reclamation	# and length of gullies	Total Km reclaimed
	40	Promote use of manures - composts, AF biomass and Khola manure	Ha covered	% increase in crop yield
	41	Promote Conservation Agriculture	Ha under CA	% increase in crop yield
	42	Promote catchment management activities which include: regeneration, afforestation, reforestation, agroforestry in catchments of rivers feeding Irrigation schemes	Ha managed	% decrease in soil loss (ton/Ha)
			# of catchments and Ha regenerated	
			# of trees planted	Survival rate (%) of planted trees
			Ha and # of trees under AF	% increase in crop yield
	43	Conduct staff and farmer training in Soil and Water Conservation technologies, catchment management interventions and CA	# of trainings and staff trained	Increase in staff with soil and water conservation, CA skills
Nutrition	44	Disseminate IEC Materials on SWC, Catchment Mgmt. and CA	# of materials developed and disseminated	# of staff and farmers with access to IEC
	45	Build capacity on climate information interpretation and dissemination at all levels in support of EWS	# of staff	# of staff and farmers accessing and using climate information
	48	Provide Severe Acute Malnutrition (SAM) and Moderate Acute Malnutrition (MAM) Treatment to children under 5 years of age (OTP+NRU)	# children treated	% reduction in SAM and MAM
	49	Provide Nutrition Care, Support and Treatment (NCST) – SAM & MAM – to adolescents & adults with HIV/TB	# supported and treated	% reduction in SAM and MAM
	50	Conduct nutrition surveillance	# of surveillances	% reduction in SAM and MAM incidences
	51	Conduct monitoring and evaluation	# of M&E reports	
	52	Provide children under 5 and pregnant/lactating women Moderate Acute Malnutrition (MAM) Treatment (SFP+SFP-PLW)	# of children and women	% reduction in SAM and MAM
	53	Build capacity of and procure materials for Community based Management of Acute Malnutrition (CMAM) programme	# trained	% increase CMAM
	54	Build capacity for NCST	# trained	# of staff with NCST knowledge and skills
	55	Conduct pilot of Micronutrient Powders (MNP) (22- micronutrient) in South	# of pilots	# of children accessed MNP
Nutrition	56	Promote nutrition through Positive Deviance approach (Behaviour Change Communication) programme	# of people reached	# of people with better nutrition
	57	Conduct biofortification pilot in six districts (integrate with Agriculture sector)	# of pilots and families/district	# of families with improved nutrition
	58	Refurbish Nutrition Rehabilitation Units (NRUs)	# of NRUs	% in families accessing NRUs

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Agriculture Research-Crops	36	Cereal crop production enhancement: Promotion of utilisation of improved seed varieties, introduction of improved crop varieties, fertiliser, pesticides, herbicides	# of farmers accessed improved cereal crop varieties, fertilisers, pesticides and herbicides	% of farmers adopting labour saving technologies Increase of cereal crop yields per hectare
	37	Legume crop production enhancement: Promote utilisation of improved seed varieties, introduction of improved crop varieties, fertiliser, pesticides, herbicides	# of farmers accessed new cereal crop varieties, fertilisers, pesticides and herbicides	% of farmer adopting drought tolerant legume crop varieties Increase in legume crop yields per hectare
	38	Horticultural Crop production enhancement (high-value and export potential crops): support for improved nurseries with new varieties and associated marketing.	# of farmers accessed new cereal crop varieties, fertilisers, pesticides and herbicides	% of farmer adopting improved horticultural crop varieties Increase in horticultural crop yields per hectare
	39	Replacement of agricultural tools, machinery, and labour saving technologies focus on drought-specific in affected areas.	# of farmers accessing replacement tools, machinery and specific labour saving technologies	% of farmers adopting labour saving technologies Increase in # and types of tools and machinery used by farmers
	40	Seed Production and Multiplication Programme (cereals, legumes, vegetables, tubers, fruit trees).	# of sites and hectare under seed multiplication programmes per crop Quantities of seeds produced according to various classes of crops	Quantities of various classes of seeds accessed by farmers Increase in hectare of various classes of seed for various crops
	41	Post-harvest facilities: community grain stores, household level storage capacity	# of improved storage structures constructed at household # of community seed banks established	Increase in # of improved storage structures Increase in # of community seed banks established
	42	Value chain and market linkage development: to include apiary, mushroom, herbal, non-traditional crops	# of value chains developed # of market linkages established	Increase in # of value chains Increase in # of market linkages
	43	Support extension services, training, technical support, and outreach	# of extension staff trainings conducted # of lead farmers trainings conducted # of days per training session	Increase in # of staff trained Increase in # of lead farmers trained Increase in # days per training session
	44	Infrastructure development for sustainable drought resilience and recovery programmes (Rehabilitation of warehouses and Kandiyani Irrigation Site)	# of facilities rehabilitated	Increase in # of facilities rehabilitated
	45	Pasture and folder crops research enhancement: improved pasture grasses, legumes, and folder crops with drought tolerant traits for livestock	% of farmers adopted improved pastures and folder crops	Increase in # of farmers adopted improved pastures and folder crops
Food Security	46	Procure 375,000MT of maize for humanitarian consumption	Quantities of maize procured	% of target beneficiaries reached with humanitarian assistance on maize
	47	Procure 300,000MT of maize for non-humanitarian consumption	Quantities of maize procured	% of beneficiaries to non-humanitarian on maize
	48	Rehabilitate SGR storage facilities to 250,000MT capacity	# of storage facilities rehabilitated	Increased storage capacity
	49	Strengthen food security early warning system	# of early warning systems strengthened	Increase access to food security early warning reports
	50	Sensitise communities on food diversification	# of farming communities sensitised	% of communities sensitised
	51	Enhance food budgeting of vulnerable households	# of sessions conducted	% of vulnerable households utilising food budgets

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Fisheries	52	Production of fingerlings in 4 Government Farms and 220 selected fish farms	# of fingerlings produced	Increase in # of fingerlings
	53	Stocking of 15 million fingerlings in 5 years in small water bodies and ponds in 8 districts	# of fingerlings stocked	Increase in # of fish stockings
	54	Implementation of integrated fish farming (fish, livestock and crops) practices among 1,500 fish farming households	# of fish farming households	Increase in # of integrated fish livestock and crop farming
	55	Implementation of integrated fish farming and irrigation (stocking fingerlings in dams) in 8 districts (Blantyre, Chikwawa, Nsanje, Ntcheu, Salima, Lilongwe, Karonga, Zomba)	# of fish farming households	Increase in # of integrated fish livestock and crop farming
	56	Development of post-harvest technologies (solar dries, racks and smoking kilns) along Lakes Malawi, Malombe, Chiuta and the Lower Shire	# post-harvest structures constructed	Increase in # of post-harvest structures
	57	Training women and youth on the development of value added fish products and business management	# of trainings conducted # of participants # of days	Increased capacities of women and youth on value addition fish
	58	Implementation of climate smart aquaculture and water harvesting practices among 1,500 fish farming households	# of farmers practising	% of farmers adopting climate smart practices
	59	Capacity building of front line staff and fish farmers on water harvesting technologies by involving LUANAR and MZUNI)	# of staff trained # of fish farmers trained # of trainings conducted # of days	Increased capacities of staff and farmer on value addition fish
Education	36	Reconstruct water taps and boreholes	# of beneficiaries	% of schools accessing safe water
	37	Conduct WASH training and education campaigns	# of people trained and # of session conducted	% of trained schools
	38	Restore food production in schools	# of beneficiary schools	% of food secure schools
	39	Provide food and nutrition recovery	# of beneficiaries and # of schools	% of pupils attending school
	40	Develop psychosocial and other resilience strategies	# of people trained # of resilient strategies developed	# of resilient people to drought impact
Environment	41	Construct water points for wildlife	# of constructed water points	% increase in points sources
	42	Strengthen fire management	# of fire mitigation strategies	% decrease in fire accidents
	43	Promote afforestation and reforestation	# of trees hectare planted and managed	% increase in tree population
	44	Harmonise sectorial policies		# of sectoral policies harmonised
	45	Improve early warning systems	# of sectoral policies harmonised	
	46	Promote natural regeneration	# of hectare with regenerated vegetative cover	% increase in natural vegetative cover
	47	Strengthen capacity	# of trained people and training sessions conducted	# of people with management skills
	48	Conduct awareness campaign and sensitisation	# of awareness campaigns	% increase of population aware of environment and natural resources management

Sector	Performance Management Framework			
	#	Activity/Intervention	Progress/Process/Output Monitoring Indicators	Outcome Monitoring Indicators
Health	36	Build capacity of health workers on disease surveillance	# of health workers recruited and/or trained	% disease outbreaks reported
	37	Strengthen co-ordination and disaster management, including supervision	increase in # of health co-ordinated interventions during disasters	increase # of population provided with timely health interventions during disasters
	38	Conduct surveillance on early warning and information systems	# of centres maintaining health records	# of operational health information management systems
	39	Provide drugs and medical supplies -including ORS, HTH	# of health centres with essential drugs	% population accessing drugs and medical supplies
	40	Conduct mobile clinics and outreach including additional village clinics	# of health outreach activities	% population accessing health services
	41	Refer/transport patients to district hospitals from peripheral health facilities, including pregnant women	# of referral cases	% increase in referral cases
	42	Provide health care by Christian Health Association of Malawi (CHAM) facilities to pregnant women and under 5 children	# of CHAM facilities offering maternal health services	Increased # of women accessing maternal health services in hospitals
	43	Control disease outbreaks	# of outbreak cases detected	% decrease in outbreak cases
	44	Conduct vector control and health promotion/IEC campaigns (IRS/ITNs & immunisation) and immunisation days	# of health promotions/vector control campaigns	% increase in population accessing health information/interventions
	45	Provide health management of gender-based violence and services for women and girls, including family planning	# of health centres providing services	Increase in # of females accessing gender-based violence and family planning services
	46	Provide psychosocial support and reproductive health services	# of health centres providing services	Increase in # of population accessing psychosocial support and reproductive health services
DRR (DCCMS)	47	Analyse and document different historical droughts	# of documents on drought analyses	% increase in sectors/population accessing tailored drought information
	48	Develop future projections of droughts distribution using existing climate scenarios	# of downscaled climate projections for Malawi	% increase in sectors/population accessing future drought projections
	49	Review seasonal forecast production process to integrate drought forecast	# of revised SF integrating drought forecasts	# of sectors provided with seasonal drought forecasts
	50	Develop an outreach strategy for communicating drought information and impacts, including collaboration for production of impact-based information, and platform for communicating to specific sectors	# of communication strategies	% increase in sectors/population accessing drought information
	51	Support agricultural and DRR extension services through PICSA training, technical support and outreach	# of agricultural extension workers trained	% increase in farmers utilising drought information in decision making
	52	Diversify utilisation of drought information in sectoral development plan through integration of climate information	# of sectoral development plans integrating climate and drought information	% increase in institutions utilising drought information in development planning
	53	Install and maintain weather monitoring stations	# of new weather observation stations; # of weather monitoring stations maintained	Increase in # of sectors utilising drought information in planning
	54	Review and redesign drought monitoring system, including drought information archive	# of operational drought monitoring systems	Perception change in usefulness (relevance) of drought preparedness information