

Importance of Drought Risk Profiles in SADC for regional and sector integration

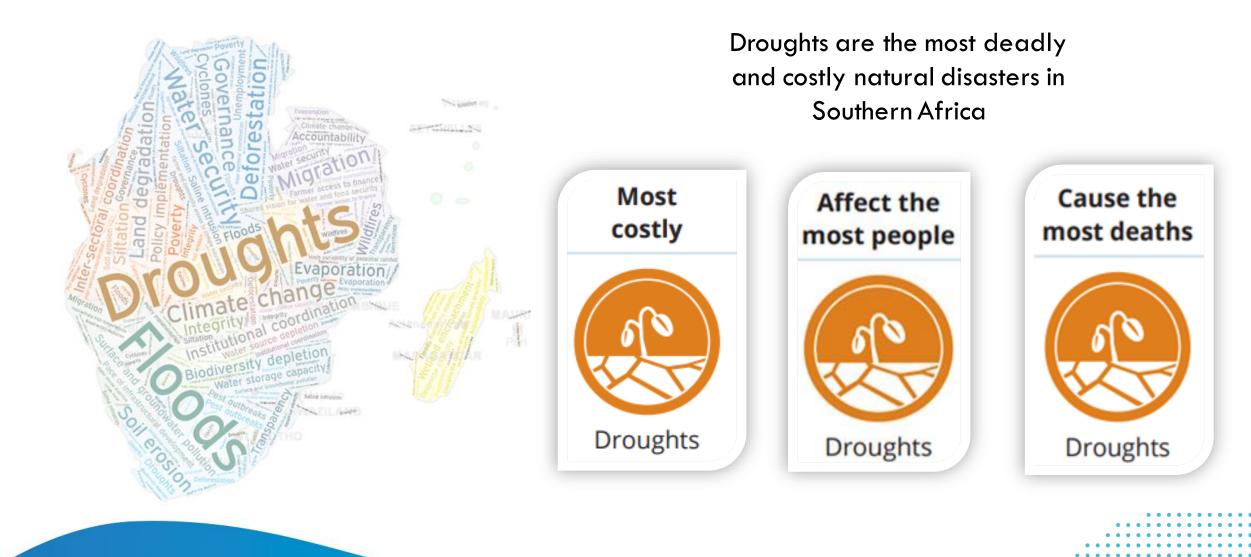
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Southern Africa

Problem of Drought

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Rationale

Drought: An entry point for building broader resilience

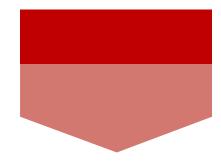
Droughts are costly and deadly

Cyclical droughts are exacerbated by climate change, and their frequency and intensity are increasing SADC economies are vulnerable

SADC economies are highly dependent on natural resources. Drought cause ecosystem degradation and food insecurity Droughts are felt across borders

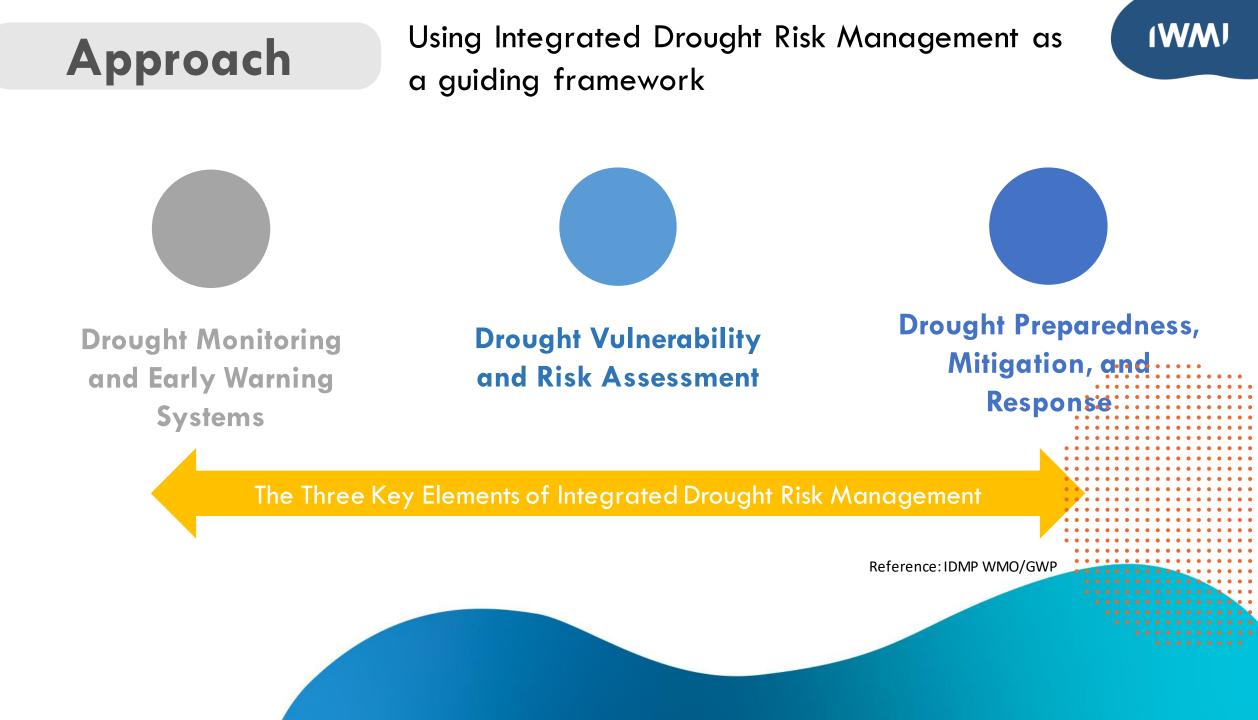
Meteorological, hydrological and agricultural droughts affect landscapes beyond national borders Impacts are felt across the economy

Cities run out of water; power generation declines; and, rural livelihoods collapse, causing widespread food insecurity



Action must be regional & cross-sectoral

The drought challenge requires a response that is regional and integrated across sectors







1. Stocktaking and Needs Assessment at the national and regional level

2. Knowledge Hub on Drought Resilience

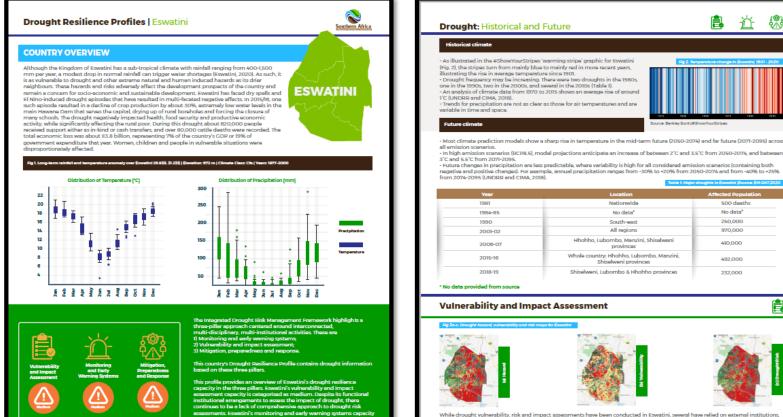
- Capture existing content/info through an internal platform.
- Stakeholder and Knowledge events to raise awareness, foster collaboration, and generate demand

Pillar 1:	Pillar 2:	Pillar 3:
Cities	Energy Systems	Livelihoods & Food Security

- City Drought Resilience Toolkit for TTLs
- Regional Guidance notes for water systems to reduce exposure and increase resilience to drought
- Dam Operation Optimization for the Zambezi Hydropower Cascade
- SAPP Drought Sensitivity
 Assessment and Adaptation
 Strategy
- 3. SAPP Drought Resilience Action Plan

- Development of agri-food value chain solutions for drought risks
- 2. Review of strategic food reserves policies
- 3. Operationalizing drought resilient contingency components/mechanisms
- 4. Integrated Water Resource Management Strategy for resilient livelihoods, food security, and agriculture

Drought Resilience Profiles



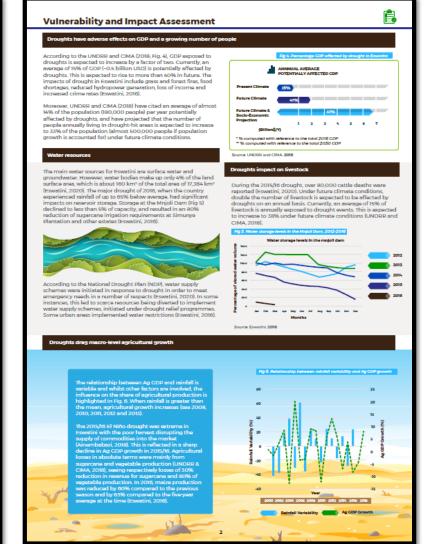
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While drought vulnerability, risk and impact assessments have been conducted in Eswatini, several have relied on external institutions For example, the drought risk assessment completed for the period 2000-2014 was conducted by the Joint Desearch Centre of the European Commission

The above maps (Fig 3a-c) depicts (a) Drought bazard areas (b) Areas of vulnerability and (c) Drought risk

Drought risk is defined by characterising hazard and exposure to vulnerability and the lack of adaptive capacity, using multisource information from satellite-derived drought indices and socio-economic conditions. In terms of components, hazard is defined through meteorological and agricultural drought i.e. Integrated Drought Severity Index (IDSI) and exposure and vulnerability expressed through population density, the human modification index, water risk, and irrigated systems. Agricultural production (agricultural practices i.e. irrigated area, food production as provided on HarvestChoice) was used to define levels of vulnerability which were finally combined with all three components to define levels of drought risk at the country level, referred to as the National Drought Risk Index (NDRI). This drought risk profile is therefore based on the probabilistic estimation of hazard and vulnerability to assess the drought risk in the exposed areas. Among the drought prone areas in Eswatini, the NDRI estimates 37% of the agricultural areas in the regions of Hhohho, Lubombo and Shiselweni (maps generated by IWMI).

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WORLD BANK GROUP

is also categorised as medium.

Through its National Drought Plan, Eswatini has crafted a proactive plan to improve its early warning systems and is also developing a combined drought indicator (CDI). The challenge however is Contained unoign massion (LOP, in Containing in conversion operationalizing these actions through capacity strengthwing, and improved communication and coordination. Similarly, Eavetim's capacity in Differ 3. mitigation, reparentaires and response, is categorised as madium, due in large part to the need for storager disaster risk reduction (DSR) management structures, in which drought management is embedded

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Most climate prediction models show a sharp rise in temperature in the mid-term future (2050-2074) and far future (2071-2095) across

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Future changes in precipitation are less predictable, where variability is high for all considered emission scenarios (containing both negative and positive changes). For example, annual precipitation ranges from -30% to +20% from 2050-2074 and from -40% to +25%

Year	Location	Affected Population	
1981	Nationwide	500 deaths	
1984-85	No data*	No data*	
1990	South-east	250,000	
2001-02	All regions	970,000	
2006-07	Hhohho, Lubombo, Manzini, Shiselwani provinces		
2015-16	Whole country: Hhohho, Lubombo, Manzini, Shiselweni provinces	492,000	
2018-19	Shiselweni, Lubombo & Hhohho provinces	232.000	

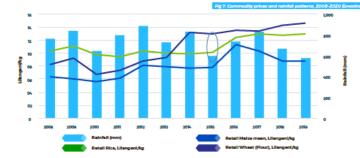


Drought Resilience Profiles

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Vulnerability and Impact Assessment

Droughts have an impact on commodity prices



Source: Own compilation from FAOSTAT & CHIRPS 2020

Fig 7 shows the connection between commodity prices and rainfall, with the oval shapes indicating drought years. In 2015/16 and 2018/19 the country was mostly characterised by low and erratic rainfall. As a result, the country observed an increase in prices for most displayed commodities in the subsequent years (2016 and 2019).

The severe droughts experienced by the nation had serious impacts on the achievement of food security associated with the increase in food prices. According to the 2015/10 Rapid Assessment, 68% of households reported a decrease in the number of meets consumed a day, while 63% reported a reduction in the type and versity of food consumed.

Vulnerability and impact assessment capacity

The Government of Eswatini recognises the importance of conducting vulnerability and risk assessments, as is evident by its inclusion in Eswatini's National Drought Plan (NDP).

In terms of institutional oversight of vulnerability and impact assessments, the Enwatini Vulnerability Assessment Committee (EVAC), which sits under the National Disaster Menagement Agency (NDMA), collects household level information to assess levels of chronic food insecurity, malnutrition, livelihoods and drought vulnerability in rural households in all regions of the country. It also aims to strengthen capacity of core EVAC members to undertake integrated food security and vulnerability analyses of household survey data (Enwanti, 2020).



According to the NDP, Esvetini uses a multi-sectoral approach to conduct disaster risk assessments (including drought) and uses that information for planning (Esvetini, 2020). However, there is no standardised tool that is being used to conduct the assessments by the various sectors and assessments are still done in an ad hoc fashion. The country has however committed to developing such tools for assessment st the onset of a disaster targoting the household and institutional level.

Several other institutions conduct and/or coordinate vulnerability and impact assessments. Apert from the NDMA that acts as a central repository for assessment tools and reports and plays a coordination role other role-players include the Essentini National Meteorological Services (EMS) and National Early Warning Unit (NEWU). NEWU falls under the Ministry of Agriculture, and therefore has a strong focus on food supply assessments; and providing advice on food supply policies, collecting, analysing and disseminating information on food security issues. Other institutions include the Surveyor Generals office, which provides maps and detailed locations; the Central Statistics Office, and Emergency Preparedness and Response Unit under the Ministry of Health. These departments deal with risk assessment at their sectoral level.

The NDP, developed in 2020, has effectively created a step change in Exwatin's drought management landscape by identifying institutional roles, coordination mechanisms and key prioritise and interventions. However, there is still some way to go to operationalise this. Individual institutions may conduct risk assessments, but they are undertaken in a relatively ad-hoc manner and not fully comprehensive in scope. Exwatini may consider conducting more structured and comprehensive multi-actoral risk assessments in all its four regions in order to compile a comprehensive drought risk profile. This will serve as guidance to influence decision-making in terms of mainstreaming drought management and dissets risk reduction into development processes.

The data management, use and storage of DRB information is hamppend by the absence of a centralised database on previous disaster events and impacts. Historical information and previous disaster events are not yet stored in a centralised database managed by the NDMA. There is no aggregation or analysis undertaken, and detailed maps do not exist. Baseline data on disaster incidents and vulnerability are not available to measure improvement.

Exverting is further constrained by the absence of systematic data collection and information management for DRP due to lack of tools, funding, staff and competencies. Therefore, most data collection is initiated as part of specific projects carried out by UN Agencies, NGOs or other international organisations. Data collection is often halted once the projects end, and in most cases, it does not constitute a nationwide effort.

Vulnerability and Impact Assessment

The lack of continuous datasets is another challenge due to the difficulties in having consistent observations carried out because of resource constraints. There are also frequent breakdowns in the functioning of weather stations leading to sporadic gaps in the recorded dataset series.

Exwatini may banefit from developing a dadicated national risk observatory, which would continuoudy collect and analyse data from relevant agancies, coordinate and/or disseminate early warnings and save as a communications hub. The National Birks could unify and streamline the disparate databases of various agancies providing invaluable evidence for directing future response, interventions and policies. Finally, there is need for a contralised database system that will capture and quantify all disaster incidences in financial values to establish trands and compare the impact of the harzards over the years (Exwatini, 2020).

Monitoring and Early Warning Systems

Monitoring and early warning systems capacity

Table 2 represents a summarised traffic light checklist to illustrate the state of monitoring and early warning system capacity in Exwetini. It summarises key aspects needed for a strong monitoring and early warning systems framework, most notably, whether there is an official definition of drought used in the country, whether drought indicators are used, and if so, which ones whether there is a drought early warning system (DEWS) in place, and if so, how functional it is, and whether the country makes use of seasonal forecasting. Eswatini has made considerable stride in enhancing its monitoring and early warning system capacity in recent years.

Table 2. Summarized checklist of monitoring and EWS capacity

Official definition of drought	•			
Drought indicators used	•			
Existence of a DEWS	•			
Capacity to tailor EWS messages to end-user needs	•			
Effective communication of early warnings with built-in feedback mechanisms				
Use of most salient communication channels to reach women/youth/disenfranchised communities				
Use of community relays, extensions services, local media to communicate EWS and reach at risk communities promptly				
Seasonal forecasting	•			
😓 Yes 🛛 🔴 No 🥚 Limited				

Drought monitoring is a coordinated task by different institutions: The EMS under the Ministry of Tourism and Environmental Affairs (MTEA) is the national metacological subtroly in Eswatini, while the Department of Water Affairs (DWA), under the Ministry of Natural Resources and Energy (MNRE) is the agency responsible for hydrological services. The EMS is mandated to provide weather, flood, climate and astronomical products and services that are used to monitor people's safety and wellbeing. The EMS runs countrywide network of 20 meteorological stations which ensure the recording, transmission and processing of meteorological information, according to instant needs and the directives of the World Mateorological Organization (WMO).

The information obtained from monitoring is used for the development of meteorological and agro-meteorological forecasts, warnings on natural meteorological phenomena, for use in global and regional meteorological data exchange networks and climate change assessments. The main parameters monitored are temperature, humidity, daily sunshine hours, atmospheric pressure, average daily wind spead, rainfall, lightning data and eveporation rates.

Drought conditions in Exvestini are therefore monitored by the NDMA, EMS and NEWL. The EMS in collaboration with WMO and partners in the SADC region provides three main products that can be used to monitor and forecast drought which all use the Percentage of Normal Reinfall Index (VRM) at national scale.



Monitoring and Early Warning Systems

In terms of the indicators used, ideally a drought monitoring indicator would include spatial data on evapotranspiration and soil attributes to get a more complete picture of circumstances within agriculture in Eswatini. However, real time and/or regular collection of this information is expensive especially in a small developing country characterised by complex topography and a low GDP, like Eswatini. Rainfall-based indicators are therefore used as proxies for agricultural and hydrological drought. As such, NDMA recently adopted the Standardized Precipitation Index (SPI), Normalized Difference Vegetation Index (NDVI) and Land Surface Temperature (LST) anomaly, and Root Zone Soil Moisture (RTZSM) for improved drought monitoring and early warning. The cross-sectoral forum of technical experts that will produce and refine this Combined Drought Indicator for Eswatini (CDI-E) is expected to follow an iterative process of monthly monitor map publications, drawing increasing linkages with decision making.

While these priorities have been clearly set out in the NDP, many of them have not materialised and remain blueprints of what Exwetin's EWS and monitoring capacity could be. Owercoming the numerous capacity and resource constraints will be the Etrus test of whether Exwetini can rise to the challenge and bacome a regional leader in this regard.

Efforts to improve transfer and facilitate exchange of relevant information within the country remains essential. To support the operations of the EMS, further capacity strengthening is required to input information, process and issue more timely warnings.

In addition, the system does not incorporate mechanisms for turning scientific/technical information on weather from the NEMU into risk scenarios. The country has historically experienced weak communication and collaboration between producers, managers and users of EWS information. The EWS is fragmented with little synergy and collaboration across sectors. There is an urgent need for effective communication and collaboration between producers of weather and climate information and next users in order to empower farmers, individuals and communities under threat from natural and other hazards to take effective and timely measures to protect lives property and the environment from the effects of disasters. The improved communication would form a basis for nationwide and regional initiatives against climate change-induced disasters. Traditionally, drought communication has been a one-way process of alerting communities to evolving drought circumstances, providing advice on what they should do, and clarifying and coordinating the roles of each of the relevant government agencies as drought evolves.

This is still very important to ensure coordination for effective response. Therefore, NDAA hear secandly developed an disseminated improved mechanisms for two-way communication around dissetsen, providing emergency verning messages and receiving real-time impacts reports through a dedicated website, text messages, and Smartphone Apps. This new communication protocol outlined in the NDP is multi-dimensional and presents actions for opening effective lines of communication with communities during drought and actions that the Covernment of Ewestini and communities take during and after drought.

Combined Drought Indicator (CDI)

An noted, Exwetini is in the process of operationalising a CD1 that consolidates indices and indicators into one comprehensive notional drought map. The CD1 map for Exwetini was created using a weighted combination of four indicators of drought - precipitation, wegatation stress, land-surface temperature and soil moisture. January 2010 was selected to depict the aswering of the 2015/nd drought.

The January CDI, usually being the peak of the rainy season, provides an assessment of the drought's magnitude (duration and intensity), spatial extent, probability of occurrence and impacts. The January 2016

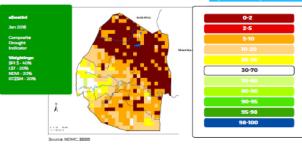
CDI map shows the areas of the country end impacted by some degree of drought, with the concentration predominantly in the north and eastern part of the country.

With support from the World Bank and the The CDI approach consolidates the National Drought Mitigation Center (NDMC) various indices and indicators that can at the University of Nebraska, Eswatini is be used to identify drought into one currently developing this CDI-based drought comprehensive national drought map monitor to be operational. Through this making decision-making clearer This process Eswatini will improve collaboration will be developed and validated among stakeholders on drought information, through a consultative process leading enhance monitoring systems and information to the Eswatini (CDI-E) which will delivery for preparedness and reduced capture existing conditions on a drought impacts. It is envisaged that this will monthly basis. support a proactive approach to drought The validation will involve checking mitigation and planning measures, risk management, public outreach and resource temporal and spatial extents of historic stewardship drought events generated by the CDI-E

2016 Multiple users of the tool will be able to ry enhance their network and build the with necessary capacity for a more substantive and sustained drought preparedness and realiance programme in the country (Erweitin 2020)

Rg 8. Combined drought indicator for Exectini, January 2016

against existing impact data



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Drought Resilience Profiles

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Website

Mitigation, Preparedness and Response	Mitigation, Preparedness and Res	sponse		Ä	Mitigation, Preparedness and Response	畄
Drought policy framework			atin's drought institutional fra	omework (2020-2030)		
Eswetini has a wide range of policy instruments to enhance weter security, reduce risks associated with netural disesters, conserve natural resources, increase national wealth and increase the nation's resilience to climate change. All these instruments are directly relevent to national drought planning and risk reduction. These includes the National Davelopment Strategy (NDS) Vision 2022, the Powerty Reduction Strategic and Action Plan (2007-2015); the National Food and Nutrition Security Policy and Action Plan; the National Disester Management Act (2006); the National Disester Fisk Management Policy (2010); the Swatian year and Action plan (2007-2008); the National Disester Resiliance Strategy and Action plan (DTR); the National Emergency Response, Mitigation and Adaptation TBM 2010-2022; the Swatiland Environment Action plan (SEAR); the National Climate Change Policy (2016); the National Biodiversity and Action Plan-2 (2018); the National Agricultural Research Policy (2018); the National Irrigation Policy (2005); the Vethan Government Action Plan-2 (2018); the National Agricultural Research Policy (2018); the National Irrigation Policy (2005); the Vethan Government Action Plan-2 (2018); the National Agricultural Research Policy (2018); the National Irrigation Policy (2005); the Utban Government Action Plan (2020-2030).	CARINET		DROUCHT MONITOR EMS DWA NEWW CSU	υ	References and data sources 1 Ainambabazi, J. H. (2018). The 2015-16 El Niño-induced drought crisis in Southern Africa: What do we learn from historical data? (No. 2058-2018-5260). 2 Eswatini (2020). Eswatini National Drought Plan. Ministry of Agriculture. Kingdorn of Eswatini. 3 Eswatini (2018). Swaziland Drought Assessment Report. Rapid Assessment 2015/2016 seeson. March 2018. 4 Mienga, D. H., Jordsan, A. J., & Mandebvu, B. (2019). Monitoring droughts in Eswatini: Apatiotemporal variability analysis using the Standard Precipitation Index. Jamba (PotcheStron, South Africa, 110). 725. Https://doi.org/10.4016/jmba.2015/1725	Data Sources: Climata Data: CHIRPS Drought Risk (WMI CDE NDMC Population Data: WorldPop
The government works through the NDMA to apply the Disaster Bisk Management (DBM) Policy to guide all disaster management programmes in the country. The policy is well signed with the National Development Strategy, 'vision 2022 and other national development instruments with respect to making the country disaster-proof. The DBM policy aims to change the approach to and the nature of Disaster silk Management in Esventini, specifically, in recognition of the country's changing disaster profile, it sats out the requirements for the institutionalization of Disaster Bisk Management in Esventini in a cost-effective, permanent and sustainable very (Esventini, 2020)	Communities BELIONS National Drought Risk Reduction Programme	<u> </u>		CHNICAL PERTS	 National Disaster Management Agency (NDMA) (Soth JUNE 2017). The Socio-Economic Impacts of the 2015/81 Et. Niño Inducad Drought in Swazilland. National Drought Mitigation And Adaptation Plan (NERMAR) 2016-2017. Swaziland Drought Assessmant Seport. Bagid Assessmant 2015/80 Sasson. UNDER and CIMA (2018). Eswatini Disaster Risk Profile. Nairobi: UNDRR and CIMA Research Foundation. 	Hoppitack, CDR-FAQ, World Bank
While the DMA and DDM Policy are in place, their implementation has not been optimal due to the factors already described. As a result of the current limitations to implementation, drought negories and menagement in Executing generally remains reactive, known to be untimely, poorly coordinated/integrated and before under information (Secundra) 2020).	Recent drought resilience efforts and recommendation				About the Southern Africa Drought Resilience Initiative (SADRI)	
Arguably the most comprehensive and progressive policy instrument for drought is the NDP The NDP encompasses a peradigm shift to a proactive approach at reducing the country's vulnerability and increasing drought realience. It is time-bound (to years) and definitive in its goats and actions and follows best-practice models for disaster management, including but not limited to, the Sendai Framwork and the three pillers of integrated Drought Risk Management. Its implementation utilization related to the Sendai Framwork framwork, and strong cross-sectoral coordination, led by NDMA and in partnership with other key agencies such as the Ministry of Agriculture.	In terms of drought mitigation, preparedness and response government has made a cleve commitment and priority to disaster. This has involved saving lave, livelihoods and prop plans of action to roduce the risk of impact before the over To create a fevourable socio-economic environment that o and eradicate the synergistic effects of powerty, HV and for Pramework (2015-2003) on disaster management that en	 protect its citizens and national ass erty by anticipating disaster threats its occur. an effectively shield households from dissecurity among other issues 15 	ets by reducing the risk and erecting necessary n disasters, the country i to DBM Policy follows th	t of losses from estructures and needs to address he Sandai	SADRI is a World Bank initiative supported by the Cooperation in International Waters in Afric the energy-water-food-environment nexus to help lay the foundations for making southern A multi-sectoral impacts of drought. Its main objectives are to generate tools and dialogue for e across Member States and to inform future national and regional investments in drought-rele	frican countries more resilient to the mhancing partnerships and capacity
Institutions and coordination	the consequences of powerty and climate change, includin their communities to the worst of disaster impacts. The as the already existing impacts of powerty and further deeper	g the specific socio-economic cond ressment of the impacts of the 2014	itions that predispose h -2016 drought shows th	ouseholds and at it exacerbated		
In terms of institutional arrangements, there are different structures are set up to assist with coordination and delivery of services during drought. The Covernment of Exwatini has the ultimate mandete and responsibility to lead and coordinate all national disaster properdences and represence actions to prevent and mitigate the effects of disasters. Under DDMO the NDMA is the overall national coordinator of Disaster Risk Reduction (DRR) and Disaster Risk Management (DRM) programmes.	household assets and savings. There are several measures that Esvetini could take to mit altamative water sources, community education and outre	igate risk and be better prepared, in ach to encourage water conservatio	cluding the developme	nt of new and		
The NDMA coordinates different DRR clusters in line with the Disaster Management Act (2006) and Disaster Risk Management Policy (2000). Multi-sector involvement/ungagement is undertaken through the Multi-Hazard Contingency Ban (MHCP), which is lad, coordinated and managed through the NDMA clusters. In the contact of an expended humanitarian country partmentship, ioli society organisations such as Red Cross, World Vision Eswetini, Nazarene Compassionate Ministries and Save the Children play a vital role in DRR coordination and implementation of DRR activities.	monitoring and impact assessment. The NDP outlines these In addition, it is recommended that the Covernment of En- natural hazard policies. The NDMA may wish to focus on in endemic risks to drought at the household level and in all that every citizen in the country, regardless of income statu- benefit from the establishment of a dedicated Disaster Ma	watini consider incorporating and re nplementing the programmes stipu sectors of the economy. Lastly, since a: receives adequate protection in t	lated in the DRM Policy the NDMA's mandate is he event of a disaster. Et	to address the s to make sure		
United Nations Country Team (UNCT) operates under the guidence of the UNICC and is responsible for effective and efficient implementation of Inter-Agency diseaser ink management activities. It provides overall leadership to the cluster planning, response and recovery and for initiating dialogue with the Covernment and donors.	Recent drought resilience efforts by the international co	ommunity				
The National Emergency Preparedness and Response Unit is another structure set up to assist with drought-related matters and it is responsible for providing leadership and coordination on health emergencies, monitoring disease outbreaks and assessing performance of health system during emergencies.	Table 3. Selected drought projects implemented by international organization of the second se	tions during the most recent drought in Eswat	IFAD/GEF UN-	-Lead and UNICEF		
performance or mean system comparises. While the policy and institutional framework is proactive, and holistic, key challenges remain including those of capacity, communication and coordination, as well as an operational structure still in its infancy (or under development).	World Bank Water Supply and Sanitation Access Project - The recently approved Eswatini Water and Sanitation Access Project has several activities specifically focused on improving drought realience. The	Natural Disaster Risk Reduction Program - Activities will foster the development of a	The Smallholder Market-led Project (SMLP)	Water and senitation mitigation approach for		
The DMA has complex management structures and thus coordination needs can grow exponentially, at the risk of duplication. Most of the organs created by the act are not in place accept for the NDMA. The National Action Plan (NMA) 2008-2005 was solopted by Cabinet. However, due to NDMA institutional constraints, the NAP lacks a coherent systematic coordination and management in terms of its implementation. The national DDM Policy was adopted, however it has not been operationalised since this. The policy she lacks a	project is supporting inflatuture development and expansion of sanilation access in particularly wuhneable and under-serviced portions of the country. It also supports the development of a long-term water and sanisation master plan that	combined drought monitor and early warning system; analysis will be undertaken to quantify drought risk in key sectors	Budget (USD): 24.5M Time Period: 2015 - 2020	population living in water scarce drought affected areas. Budget (USD):		
coherent strategy for its operationalisation. In this regard, Esvathir may wish to consider reviewing and aligning the DMA and DRM Policy with the aim of promoting efficiency in DBM interventions in the country st various institutional levels. There is weak mainteeming of DRR into national development plans, sector plans and budgets which translates into lack of	will account for climate change and other uncertainties in recommanding future infrastructure investments: The Project is also helping the country to institutionalize a Drought Program that addresses many of the ass and	of Eswatini, such as agriculture, water, health, and/or education; several pilot drought contingency plans will be supported:		14,8K Time Period:		
ownership of DBR initiatives. Closing these gaps and inconsistancies in the national institutional framework by reviewing and harmonising drought-relevant policy will be key to the successful implementation of the NDP. This may include the development of action plans for operationalising the	Program that addresses many of the gaps and recommendations mentioned in this Drought Profile, including to support the development of: the CDF-E, drought management plans for all Eswelini close and towns, detailed disester risk	identifying identify the most appropriate risk financing and insurance mechanisms for mitigat-				
Will be leg to the Soccessful imperiation of the NDA. Instruction with development of soccessful and the soccessful imperiation of the NDA. Instruction with the Soccessful in	esvidui i cuiva ai nu tovino, divalanto di usadani nati profiles and na nacompanying DBR investment plan and decision support tuols, e diasatar risk financing strategy, and ulimately an updated Diasate Risk Reduction strategy. Budaet (USD-45M Time Period: 2020-2025	ing the impacts of droughts and communi- cation, knowledge. Budget (USD): 200K Time Period: 2019-2021				

Key messages

- Power of partnerships to realize joint/shared/regional initiatives
- Inter-institutional and inter-sectoral coordination, the strengthening of country capacity in vulnerability and impact assessments
- Drought Profiles as a starting point to scale up an operational drought monitor and early warning system
- Opportunities to develop clear priorities for regional and country investments to boost drought resilience
- Links to mega-projects (AICCRA, OneCGIAR, Africa WASA)



International Water Management Institute

Thank you

