



Anticipatory Action

and Red Cross Experience in Ethiopia

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- Anticipatory action is a set of actions taken to prevent or mitigate potential disaster impacts before a shock or before acute impacts are felt
- Anticipatory Action is an innovative approach that systematically links early warnings (impact-based forecast) to actions designed to protect families and their assets ahead of a hazard event.
- Impact Based forecasting (IBF) a forecast which integrates the anticipated hazard with its respective impact
- IBF is not only what a hazard could be but also what a hazard could DO

Why Anticipatory Action

THE CHALLENGE

Humanitarian finance is available when a disaster strikes and suffering is almost guaranteed. But climate-related risks are rising worldwide, and just waiting for disasters to happen is not an option:



Wind of Opportunities to Reduce Risks of Crisis

Many humanitarian actions could be implemented in the window between a forecast and a disaster. Many climate-related hazards can be forecast; humanitarians get information about when and where extreme-weather events like storms, floods and droughts are expected.

Can we set up an automatic system that triggers and funds preparedness actions before a disaster strikes when a credible warning arrives? If so, we could prevent suffering, use humanitarian funds more efficiently, and contribute to strengthened community resilience:



Stakeholders Involved

- National AA Technical Working Group There is a TOR
- EDRMC lead
- ERCS Secretariat
- EMI, MoA, MoWE, WFP, OCHA, (even FAO) are members

We have developed a national level EAP for Drought and Riverine Flood and Activated in 2022 and 2023

Phases of AA



Risk Analysis

Provide a justification of the selection of hazard.

Answer who is vulnerable to this hazard and where are they?

understand the risk through mapping and other statistical methods

what types of vulnerability and exposure can combine with the hazard to cause impact

Gather and analyze data on indicators for hazard exposure, vulnerability and coping capacity

Prioritized Impact for Flood

This EAP has prioritized five following impacts



Loss of human life (due to drowning/washed away)



Destruction of crops



Death of livestock (due to drowning/washed away)



Damage to Houses/shelters leading to displacement



Contamination of drinking water

Vulnerability Analysis

5 vulnerability indicators identified



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- Uprooted people(IDP, Refugee)
- Shelter/wall material



Hotspot woreda/as proxy indicator to FI



- □ VI were combined to create CVI based on INFORM risk
 - framework

Prioritized Impact for drought and when it is being felt

- Seasonal d/c over locations (Crop Calendar) -FAO
- Slow on set hazard (Drought case by case)





CRA Dashboard

Community Risk Assessmer









Trigger Development

1. Identification of Indicators :

- Rainfall Forecast
- River discharge forecast
- **2. Inventory of Forecast**
- **3. Historical Impact Hazard curve**

Forecast	Source	Lead time	False Alarm Ratio	Number of times the forecast has been issued for floods in the last 10 years
WRF model	EMI	1 to 10 days	0.4	Two times a week for ten day time period
Global Flood Awareness System (GLOFAS)	European Commission Copernicus Emergency Management Service	30 days	For each location	Issued daily since 2011
Seasonal forecast	EMI, MoWE	120 days	Not known	Every four month Since 1987
HYPE discharge model	MoWE	To be determined	Not Known	Under Experiment
Water level flow measurement	MoWE	Real time	Real Time	Every day/rainy season/

You have selected Dubti

72

64 72

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1,775

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Select Rainfall Threshold (in mm):

52

Select a Threshold for The GLOFAS

1.061

0 178 556 554 712 890 1,068 1,424 1,775

Select lead time(dis=0,dis_3=3

days or dis_7=7 days) discharge

Select A GLOFAS Station:

13

0 2 10 24

G1045

Station in(cms):

.

variable

dis

0







Activation Of Flood EAP

IBF model for Riverine Flooding: Used to Activate The Flood (Dubti Kiremt 2022 and drought EAPs (over East Bale 2023 Bega).

- Dubti
- Maintenance of 10 breaking points in an Irrigation Canals to protect around 250 hq of farmlands (300 CFW deployed)
- Evacuation of 1900 HHs from the down stream side two kebeles (NFI: water tank, chemicals, sleeping mat and Plastic sheet cover)







Activation of Drought EAP

Drought Over Sewena/East Bale Zone

- Area closure works done on the selected areas (FTC or PTC)
- Installation of 2 (10,000lt) roof water harvesting WT done (3 Kebele)
- Payment and cash transfer is also ongoing
- Ground water harvesting by plastic membrane support given for one kebele







Challenges Faced

- Limitation in quality and quantity of risk data
- Limited Skills of the Forecast Models (though there is significant improvements recently by EMI)
- Limited technical skills in the area of AA
- Most of the AA initiatives are still at national level
- Lack of coordination among different actors (though there seems to be good move recently by EDRMC and other actors)
- Limited funding for AA