Strengthening Early Warning Systems and Forecast-based Anticipatory Action in Teknaf

30 March 2022
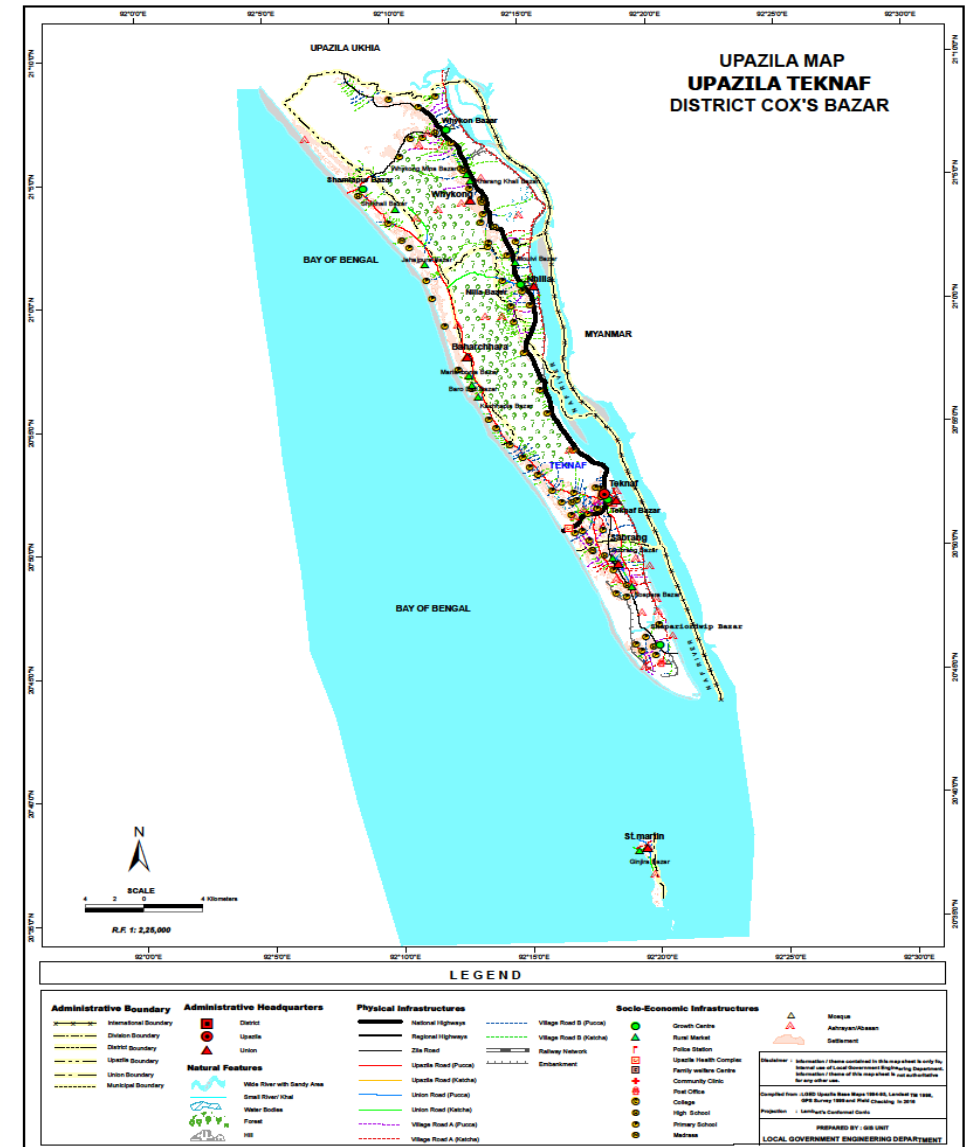
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Overview

- August 2020 – July 2022

- Three unions (Nhila, Sabrang, Teknaf) of Teknaf District

- 3,000 poor and vulnerable households

- Multi-hazard approach

  - Flash flood

  - Cyclone storm surge flood

- Threshold and trigger model

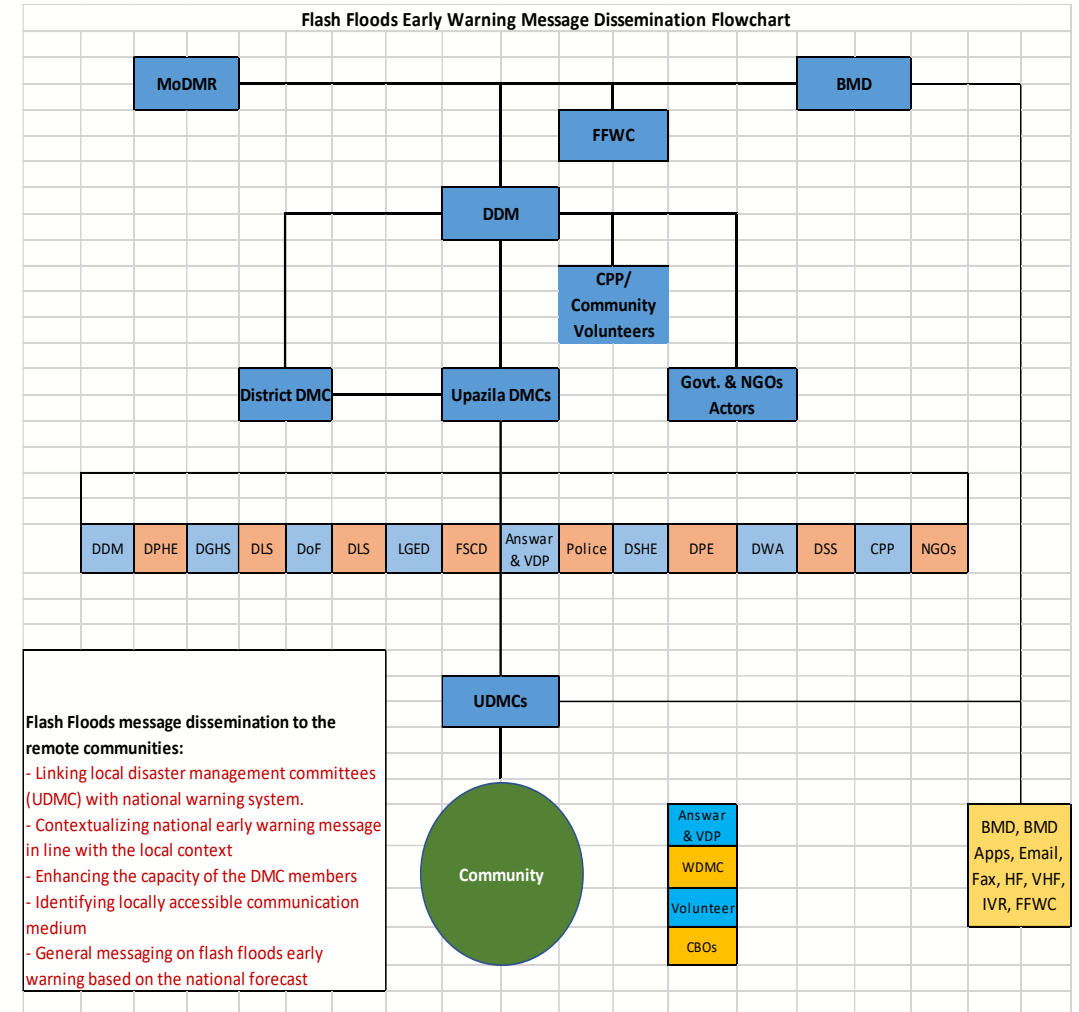- Forecast-based financing of 4,100 BDT

Trigger Model

Flash flood	Two- step triggers (Expected lead time for activation)	**Readiness:** 72+ hours pre-activation (forecast of heavy rainfall to exceed 150 mm in 72 hours with lead time of 72 hours) **Activation:** 48 hours activation (forecast of heavy rainfall to exceed 150 mm in 72 hours with lead time of 48 hours)
Cyclone storm surge flood	Two- step triggers (Expected lead time for activation)	**Readiness:** 72-120+ hours pre-activation (forecast of cyclone in the Bay of Bengal likely: 50%) (flood depth in the exposed area is expected to be 0.5 meter) **Activation**: 48 hours activation (forecast of cyclone in the Bay of Bengal highly likely: 70%) (flood depth in the exposed area is expected to be 1 meter)

Early Warning Dissemination

- Community-level early warning dissemination framework

- Disaster preparedness awareness sessions with UDMCs and the beneficiaries

- Coverage of early warning message increased by 21% to 93% *(PDM survey)*

Flash Floods Early Warning Message Dissemination Flowchart

Flash Floods message dissemination to the remote communities:
- Linking local disaster management committees (UDMC) with national warning system.
- Contextualizing national early warning message in line with the local context
- Enhancing the capacity of the DMC members
- Identifying locally accessible communication medium
- General messaging on flash floods early warning based on the national forecast

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Trigger Activation & Cash Transfers

- Flash flood trigger activated on 15 June 2021: 991 HHs received 4,100 BDT

- Flash flood trigger activated on 3 August 2021: 1,320 HHs received 4,100 BDT

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Lessons Learned

- Strengthen weather information

- Enhance understanding of disaster preparedness

- Familiarize WFP staff with anticipatory action and forecast-based financing

- Build a network of Anticipatory and Forecast-based Financing actors

- Linkage to development work
  - Cyclone shelters
  - Sluice gate and drainage system

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Thank you