



# Early warning and anticipatory action within the Government of Bangladesh

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- Government of Bangladesh has its own mechanism to disburse emergency funding.
- For effective utilization of the allocated resources of Government and partner agencies the Forecast based Actions need to be expanded as **viable vehicle**.
- If able to take early action based on forecast to mitigate the loss and damage before disaster, that will lead to both **essential and effective** early response **saving both lives and properties**.

# World Disasters in 2020



**389**  
Reported  
disasters



**15,080**  
Dead  
people



**98.4 million**  
People  
affected



**171.3 billion**  
US\$ economic  
damage



**Asia and Pacific is the world's most disaster-prone region**

**‘A person living in the region is 4 times riskier than those in Africa and 25 times than in Europe or North America.’**

**Protecting Development**

**Gains**

Reducing Disaster Vulnerability and Building Resilience in Asia and the Pacific



# Impact of Disasters in South Asia (1900-2020)

COUNTRY	POPULATION	OCCURRENCE	TOTAL AFFECTED PEOPLE
Afghanistan	38 M	197	23 M
<b>Bangladesh</b>	<b>163 M</b>	<b>352</b>	<b>451 M</b>
Bhutan	0.76 M	10	0.087 M
India	1,366 M	731	2,456 M
Maldives	0.53 M	7	0.067 M
Nepal	28 M	128	17 M
Pakistan	216 M	226	97 M
Sri Lanka	21 M	112	31 M
<b>Total</b>	<b>1,835 M</b>	<b>1763</b>	<b>3,077 M</b>

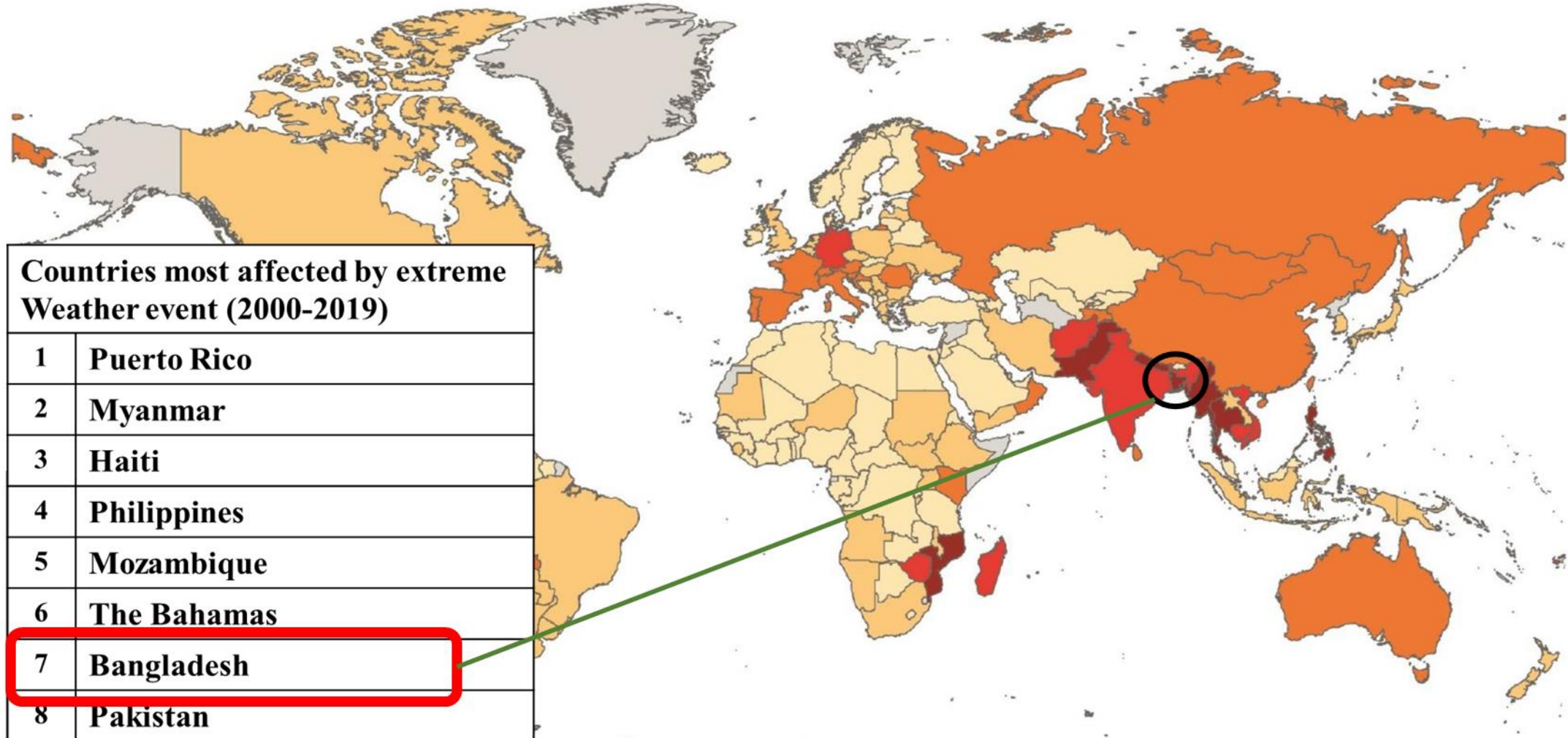
Source: UN (2019), EM-DAT (2020)

# Top 10 Disaster Affected Countries in 2020

 India	Cyclone Amphan	18.0 million	 Honduras	Hurricane Eta	4.6 million
 China	Flood	10.0 million	 China	Flood	4.2 million
 Mali	Drought	6.8 million	 Niger	Drought	3.7 million
 Bangladesh	Flood	5.4 million	 Philippines	Typhoon Rolly (Goni)	3.4 million
 Philippines	Typhoon 'Ulysses' (Vamco)	4.9 million	 Burkina Faso	Drought	2.9 million

Source: Cred Crunch : Disaster Year in Review 2020, Issue No.62, Brussels, CRED, 2021

# Climate Risk Index Ranking (2000-2019)



Source : Germanwatch “Global Climate Risk Index (2021)”

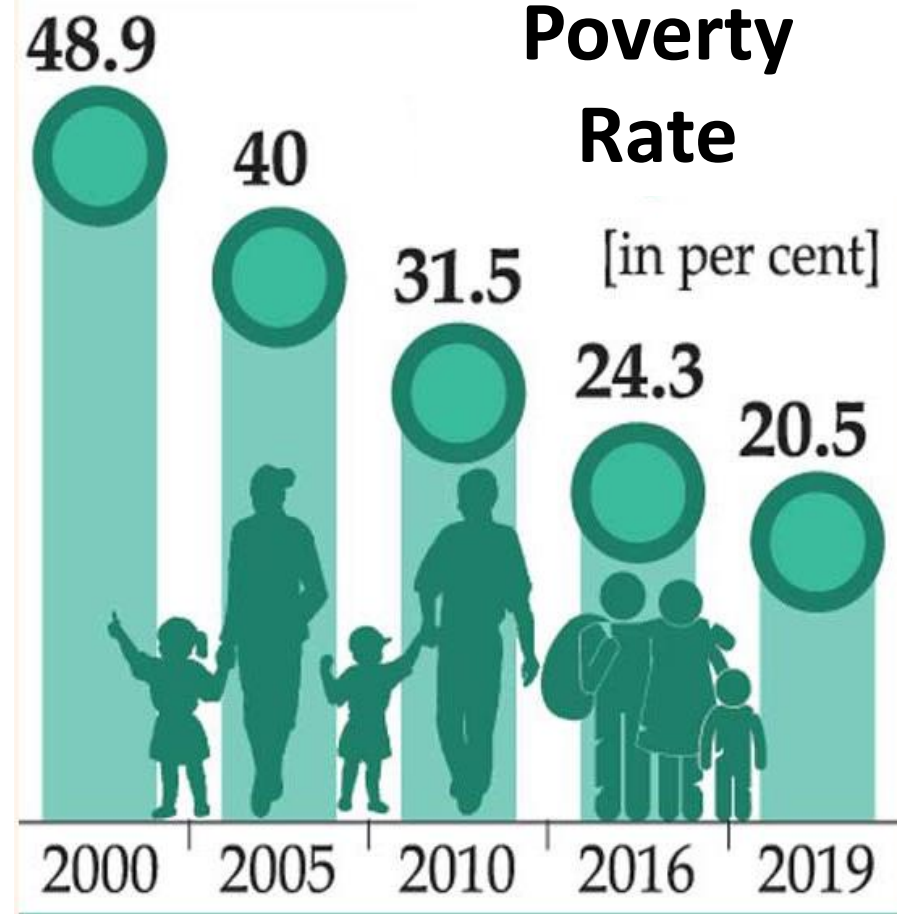
# Bangladesh Population and Poverty Rate

**Population:**

165,57 million (Jan 2019)

**Population Density:**

1,116 people/sqkm



Source: BBS



# Relevant Policies for Risk Management in Bangladesh



## Delta Plan 2100

Long-term Intersectoral development plan for Bangladesh

## Disaster Management Act 2012

Law regarding Disaster Management



## Disaster Management Policy 2015

Detail out on Preparedness and response

## Standing Orders on Disaster 2019

Responsibilities for each stakeholders of all level

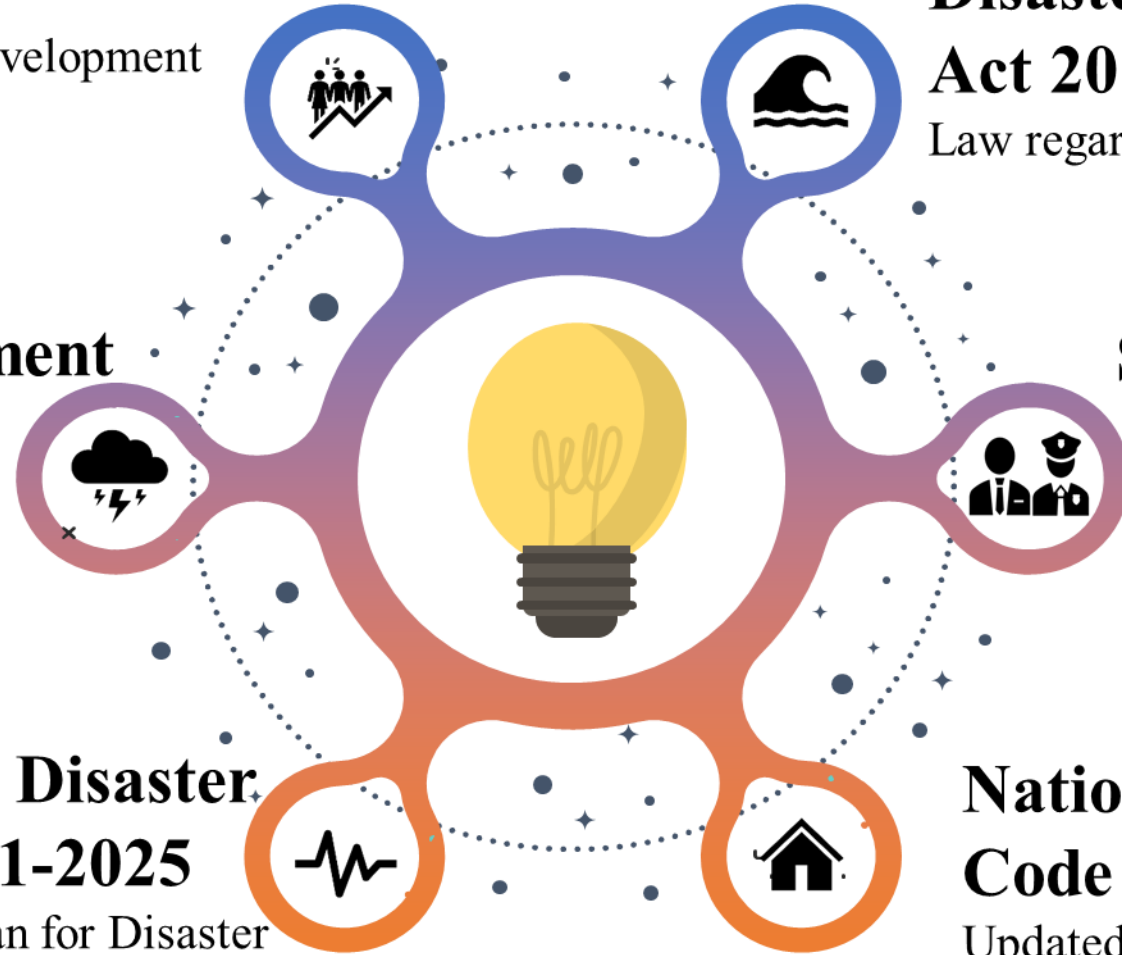


## National Plan for Disaster Management 2021-2025

Set the 5 Year National Plan for Disaster Management

## National Building Code 2020

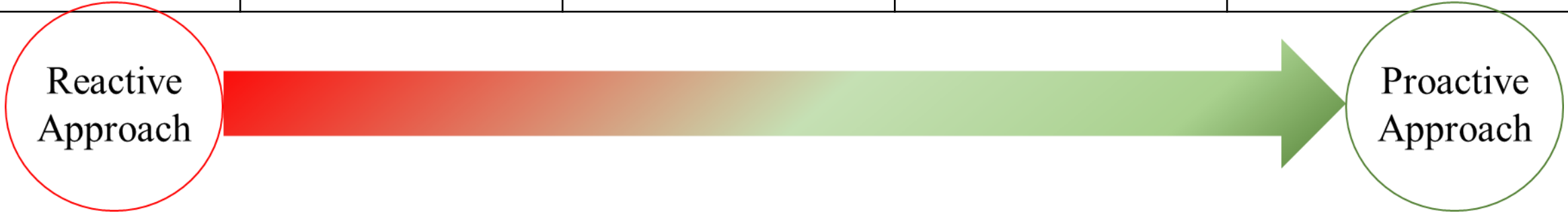
Updated considering local context



# Evolution of Disaster Management in Bangladesh



<b>1<sup>st</sup> Generation:</b> <b>Life Saving &amp; Relief</b>	<b>2<sup>nd</sup> Generation:</b> <b>Flood and Cyclone Preparedness</b>	<b>3<sup>rd</sup> Generation:</b> <b>Institutional Preparedness</b>	<b>4<sup>th</sup> Generation:</b> <b>Community Preparedness</b>	<b>5<sup>th</sup> Generation:</b> <b>Whole of Society Approach for DRR</b> <b>Anticipatory Action</b>
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# Evolution of International and National Disaster Management Framework



# Unlocking the dividends of investments in anticipatory action

- Understand from experienced government and national level actors how the dividends are manifesting in the context of national systems and priorities for disaster risk management.
- Encourage critical thinking on key opportunities and challenges in **scaling up investments in anticipatory action**, especially with regards to multi-stakeholder **coordination**.

# **Mainstreaming FbF/A: Policy level intervention**

- **Section-32 of Disaster Management Act 2012:** ‘National Disaster Management Fund’ and ‘District Disaster Management Fund’.
- **Humanitarian Assistance:** FbF/A for potential flood affected people may be provisioned in general relief programme to the Upazilla & Union level.
- **SOD 2019** includes the forecast based early action.

# SOD 2019

## 3.1.16 Forecast based finance/action (FbF/A) Taskforce

### Roles and Responsibilities

Preparing strategies for forecast based early actions by determining the intensity, triggering/thresholds and impact of disasters in consultation with stakeholders.

Develop FbF/A Strategies and Implementation Guidelines for all possible disasters.

## **FbF/A & Standing Orders on Disaster**

- Develop and use standardized triggers and thresholds, and to help inform policy at the national level to integrate the modality of FbF/A.
- Create an enabling environment, so that actors at all levels can promote FbF/A through whole of society approach.

# Case Study

A case study on forecast based early action implementation by Bangladesh government in cyclone “Fani” in 2019, Flood in 2020: WFP and others..... implemented FbF.

Government acts early ahead of an extreme weather event with predetermined **anticipatory actions** at the national level based on scientific assessments of weather forecasts and vulnerabilities.

Coordinated approach at community levels, linking anticipatory actions to local disaster response plans, as well as helping to improve the effectiveness of government social support systems and DRR activities **together.**



## Case study

- In cyclone “Fani” implemented early action by Cyclone Preparedness Programme (CPP) based on the cyclone forecast by implementing last mile early warning dissemination as per Standing Orders on Disasters.
- The actions included shelter management, arrangement of transport for evacuation, emergency food support for the people in the shelter, etc. These actions helped to reduce the sufferings, loss of lives and properties. For example, few days before 4<sup>th</sup> May, before landfall of cyclone Fani, more than 1.6 million people evacuated within 8 hours.

## **Proactive response**

- Government of Bangladesh is more sensitized and capable of doing proactive response rather doing reactive response.
- FbF/A is one of the solutions for the shift from reactive to proactive. Create an enabling environment so that actors at all levels can promote FbF/A through whole of society approach.
- Integration of FbF/A with social safety-net programs will provide additional emergency support to protect the food security and livelihoods of beneficiaries.

# Specific Role and Function of District Disaster Management Committee

- Ensure dissemination of early warning among vulnerable communities, and monitor overall security and early warning dissemination activities;
- Prepare checklist of activities including scheduling of persons engaged in emergency response;

# Responsibilities and Functions Upazila Disaster Management Committee

Undertake measures to speedily disseminate forecasts and warning messages among the people at risk and monitor the overall security;

# Union Disaster Management Committee

## Duties and Functions

- Assess local vulnerability and capacity at the union level through Community Risk Assessment (CRA) to prepare risk reduction action plans and **mobilize resources** for its implementation;
- Send the SOS/D-Form to the Upazila Disaster Management Committee for calculating and prioritizing the damage and needs, and humanitarian assistance for speedy recovery;

# Union Parishad Ward Disaster Management Committee

## Duties and Functions

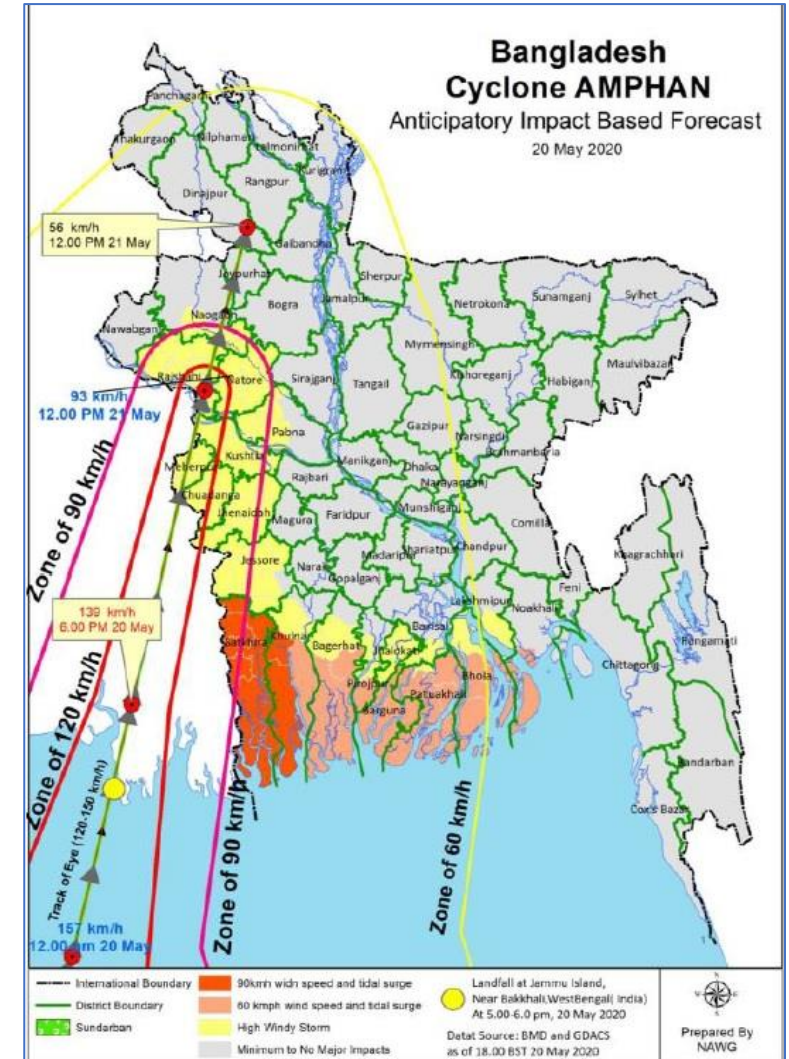
- Undertake necessary measures to disseminate forecasts and warnings prior to floods, cyclones and other disasters in coordination with volunteer groups and other organizations.

# Cyclone Amphan in 2020

## Super Cyclonic Storm "Amphan"

-Hit Bangladesh and West Bengal State of India on 20 May 2020.

-Damaged more than 150 km Embankment, 440km Road, etc.



# Early Warning and Evacuation

Local Administration worked with Volunteers at Coastal Area





# Early Warning and Evacuation

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## Amphan: India and Bangladesh evacuate millions ahead of super cyclone

19 May 2020

**UNB**  
UNITED NEWS OF BANGLADESH



Cyclone Amphan

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**Cyclone 'Amphan': 12,078 shelter centres ready in coastal areas**

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UNB NEWS PUBLISH- MAY 18, 2020, 09:40 PM UNB NEWS - UNB NEWS

UPDATE- MAY 19, 2020, 12:10 AM



**2.4 million**  
**people**  
**evacuated**



# Cyclone: Forecast based Early Actions

Cyclone Preparedness Program (CPP) implements:

- early warning dissemination
- Evacuation support
- shelter Management.

## **a) Evacuation:**

- Shelter preparation, transport arrangement as FbF mechanism
- Resource mobilizations and engagement of volunteers

# **Cyclone: Forecast based Early Actions (Cont.)**

## **b) Inclusive Shelter Management:**

- Arranging emergency food support including baby food- FbF
- Gender responsive and disability inclusive shelter,
- WASH
- Supplying warm clothes
- Ensure First Aid & Healthcare

## **c) Security measure for livestock and left out properties:**

- Mujib killa (Fort)
- Livestock friendly shelter management
- Community based security system and left out properties

# **Flood: Forecast based Early Actions**

## **a) Early Warning:**

- Early Warning dissemination- EW from BMD and FFWC to local communities
- Cash assistance before flood water reaches trigger point

## **b) Evacuation:**

- Flood Shelter preparation
- Resource mobilization
- Transport arrangement
- Gender Responsive and Disability inclusive plan

# **Flood: Forecast based Early Actions (Cont.)**

## **c) Inclusive Flood Shelter Management**

- Arranging emergency food support through local body (decentralized approach)
- Arranging baby food
- Supplying warm clothes
- Water Sanitation and Hygiene (WASH)
- First Aid and Healthcare etc.

# Climate Risk Insurance: Piloting Initiatives

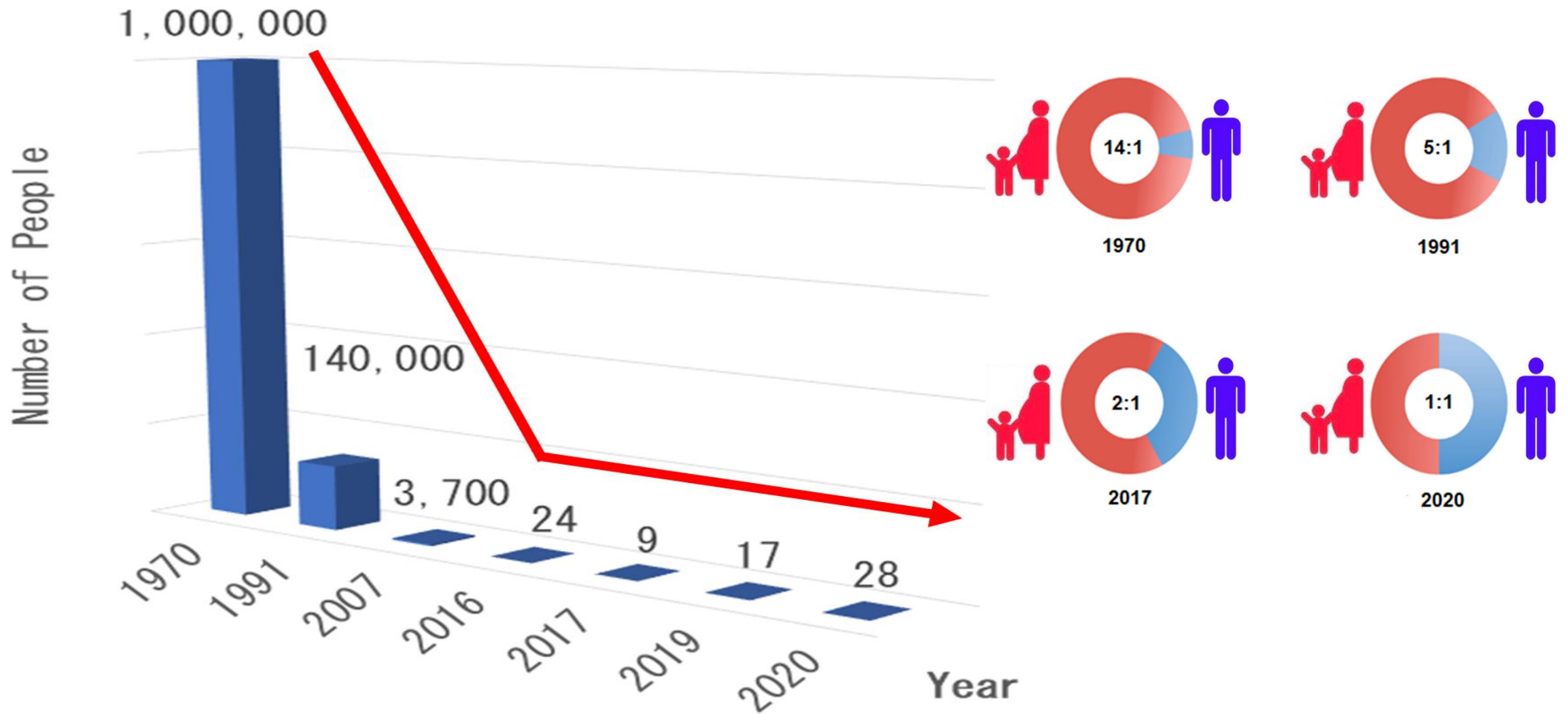
Enhancing Insurance Sector

Reliable weather, water, and  
climate information services

Index-based Flood Insurance for Farmers

Weather Index Insurance for Farmers

# Drastic Reduction of Cyclone Mortality



# Facts behind the Success

**Enabling Legal and Institutional Arrangement**



**Effective Early Warning**

**Dedicated 5 million Volunteers for Dissemination**



**Dedicated Shelters for Evacuation**

**Whole-of-Society approach**





Thank You !

