

**WELCOME TO THE PRESENTATION ON**  
**ICT FOR DISASTER RISK REDUCTION :**  
**CASE STUDIES IN BANGLADESH**



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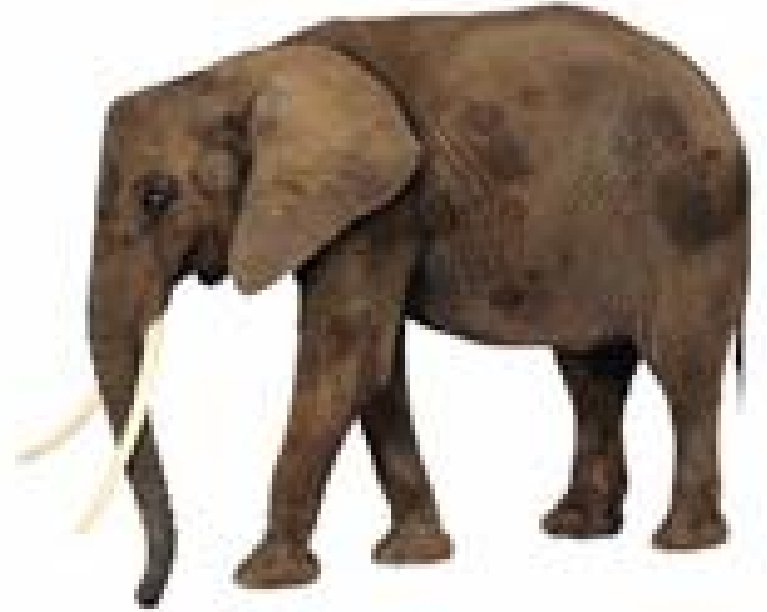
**ALEXANDRIA APRIL 2007**

# STRUCTURE

- **ICT FOR DISASTER RISK REDUCTION**
- **INTRODUCTION TO BANGLADESH**
- **CASE STUDIES**
- **OPTIONS FOR RISK REDUCTION**
- **CHALLENGES**

# ICT FOR WARNING DISSEMINATION

**FOR DISASTER  
FORECASTING**



**DISSEMINATION TO  
COMMUNITIES**





NEPAL

Arunāchal Pradesh  
(disputed)

BHUTAN

ASSAM

BIHAR

MEGHĀLAYA

MANIPUR

INDIA

WEST BENGAL

BANGLADESH

MIZORAM

MYANMAR

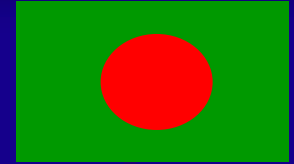
BAY OF BENGAL

## Bangladesh

Longitude 88 01' to 92 41' E

Latitude 24 34' to 26 38' N

# BASIC STATISTICS



**AREA : 147,570 SQ. KM**

**POPULATION : 145 MILLIONS**

**MAINSTAY ECONOMY : AGRICULTURE**

**PER-CAPITA INCOME :**

**EGYPT : US \$ 1,250**

**BANGLADESH : US \$ 440**

# MAJOR DISASTERS

**FLOOD**

**CYCLONE**

**RIVER-BANK EROSION**

# COMPARISON WITH USA

COUNTRY	YEAR	WIND SPEED (per hour)	HUMAN CASUALTY
BANGLADESH	1991	225 KM	138,000+
LOS ANGELES	1992	222 KM	18

# CYCLONE OF 1970

**HUMAN LIVES LOST      500,000+**





# METEOROLOGY DIRECTORATE

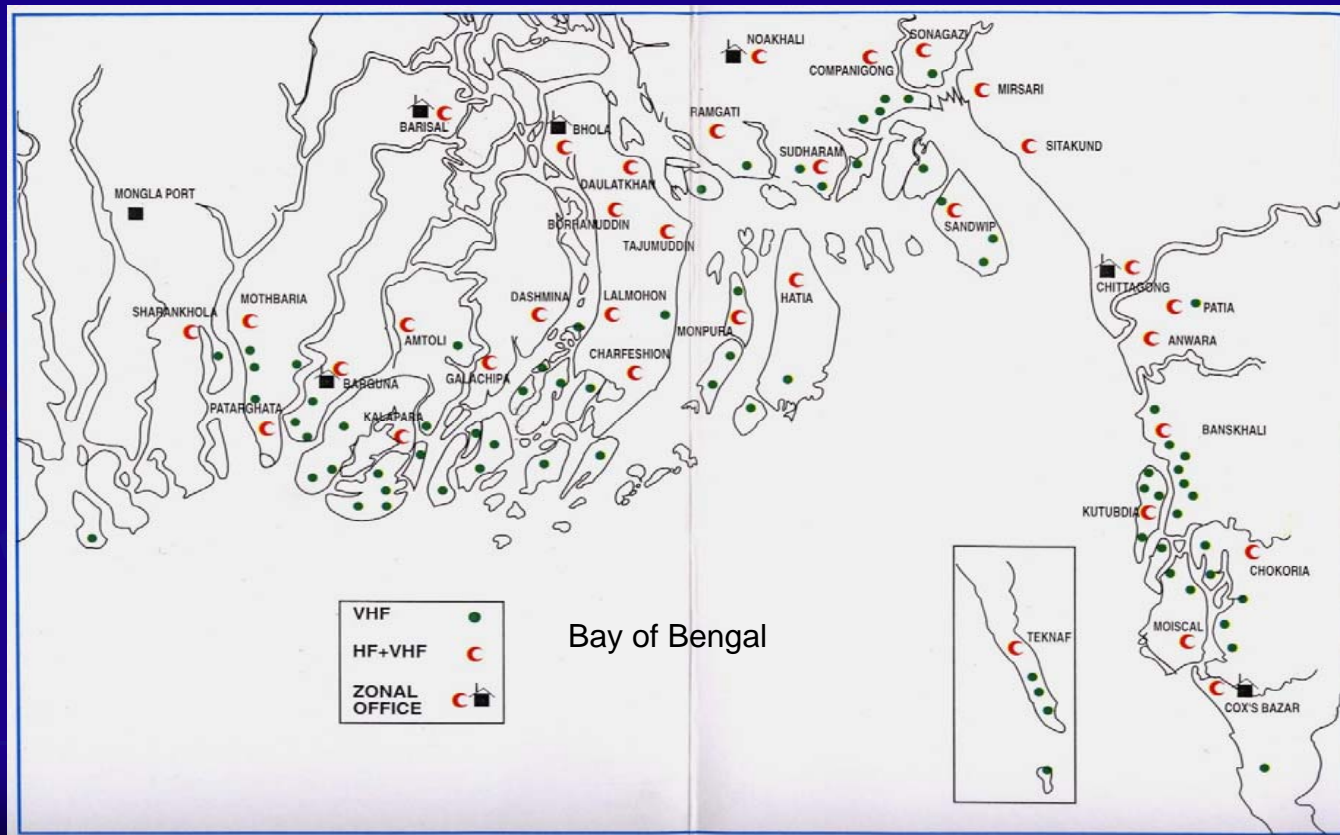
- SATELLITE
- RADAR STATION
- APT RECEIVER
- HYGROMETER
- PSYCHROMOTOR
- WIND VANE
- SSB RADIO



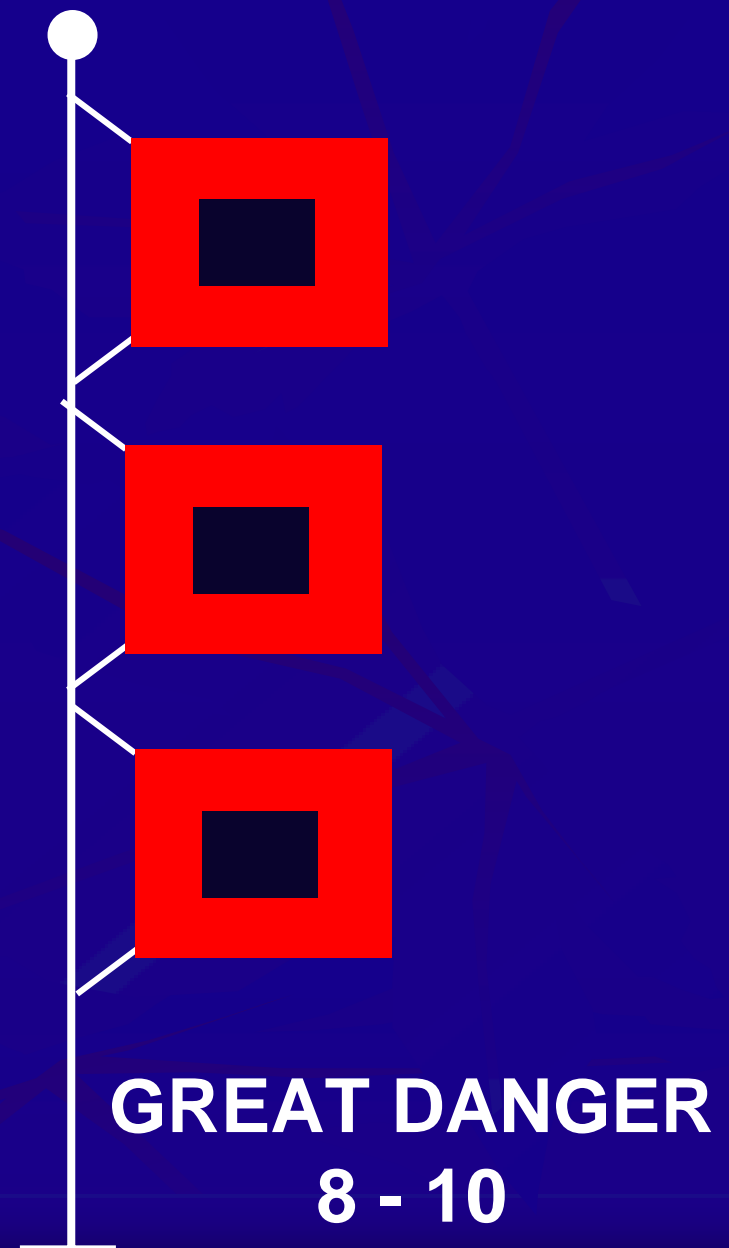
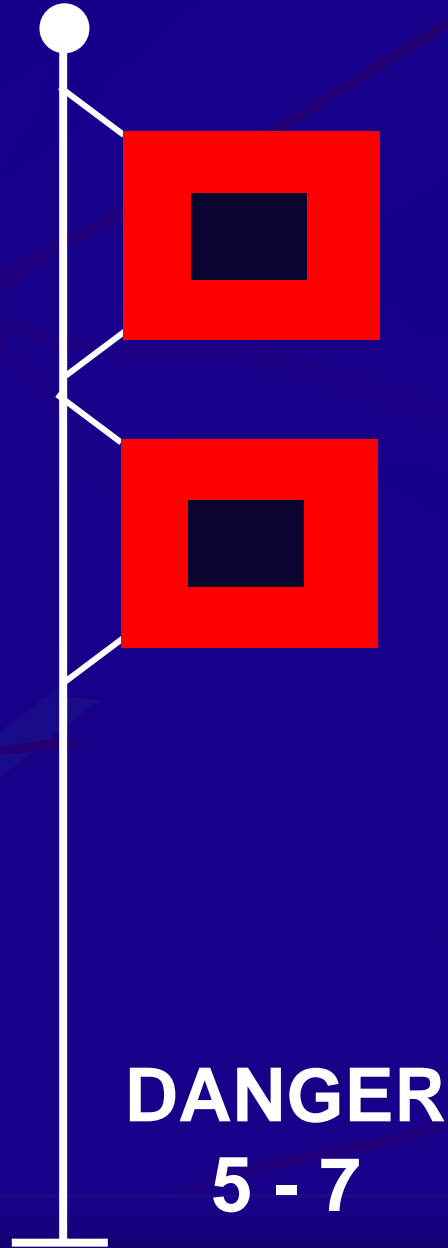
# CYCLONE PREPAREDNESS PROGRAMME

VOLUNTEERS : 33,240

POPULATION : 11 MILLION



# SIGNAL FLAGS







# FOCUS ON CHANGE AGENTS

- IMAMS OF MOSQUES
- TEACHERS OF SCHOOLS
- FOLK SINGERS



# FLOOD CATCHMENT AREA



AREA OF BANGLADESH : 147,000 SQ KM

CATCHMENT AREA : 1.6 MILLION SQ KM

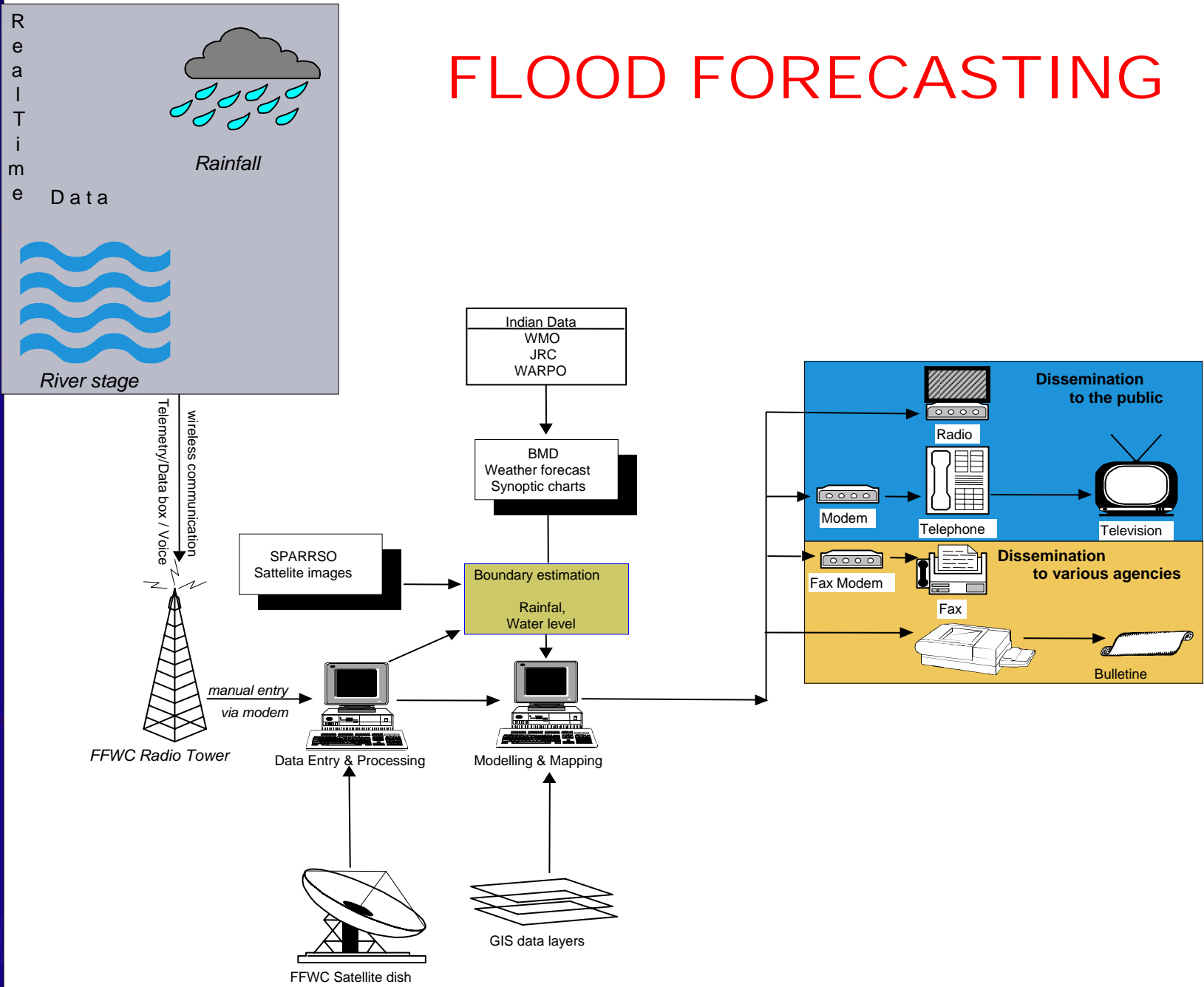


# FLOODS OF 2004



**POPULATION : 33 MILLION**

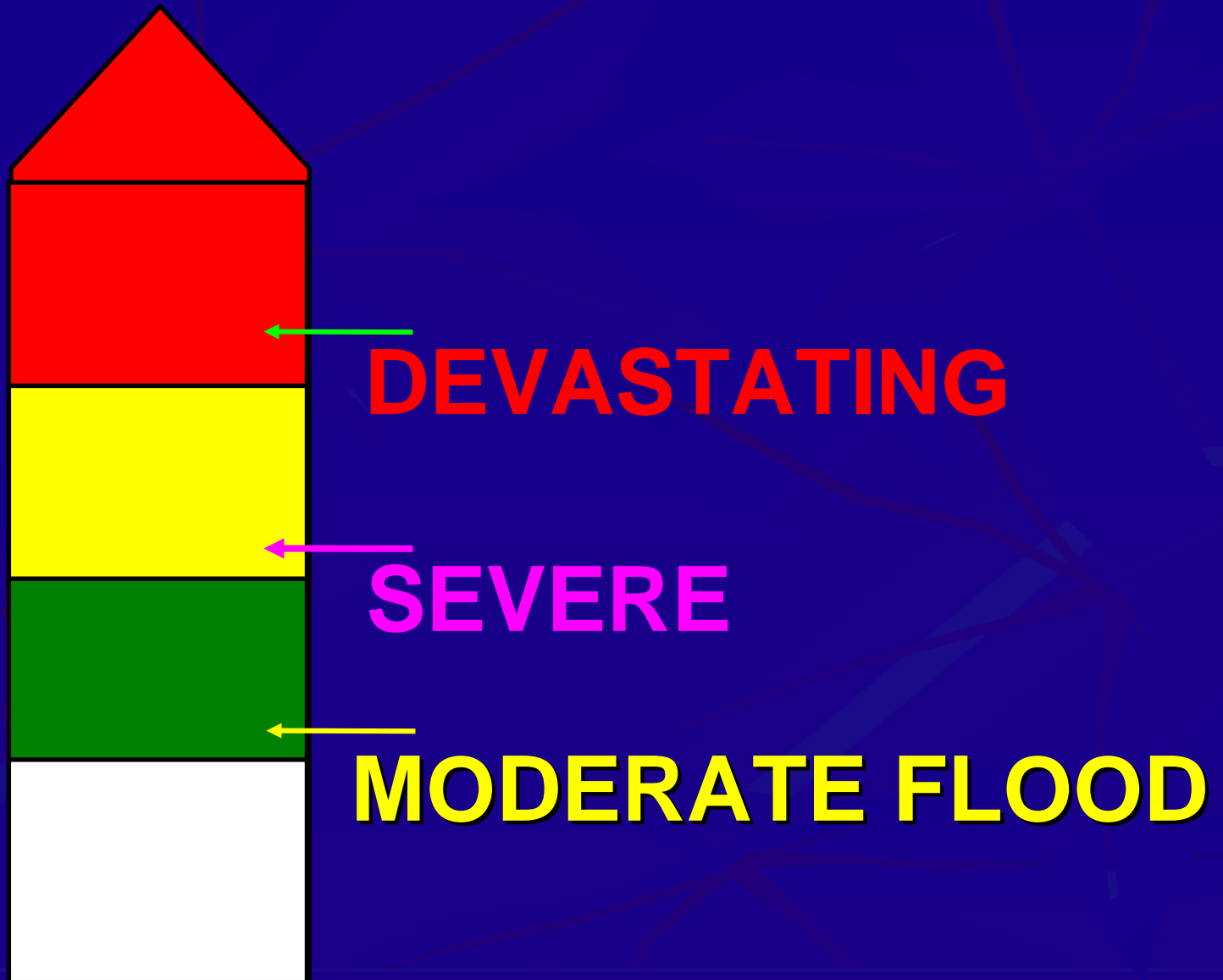
# FLOOD FORECASTING



# WARNING RECIPIENTS

- **President**
- **Prime Minister**
- **Ministers**
- **Head of diff. agencies**
- **DM Agency**
- **Media**
- **Field officials**

# FLOOD MARKER POST





# PUBLIC AWARENESS





# OPTIONS

1. RELO~~X~~CATION

2. DISASTER ~~P~~REVENTION

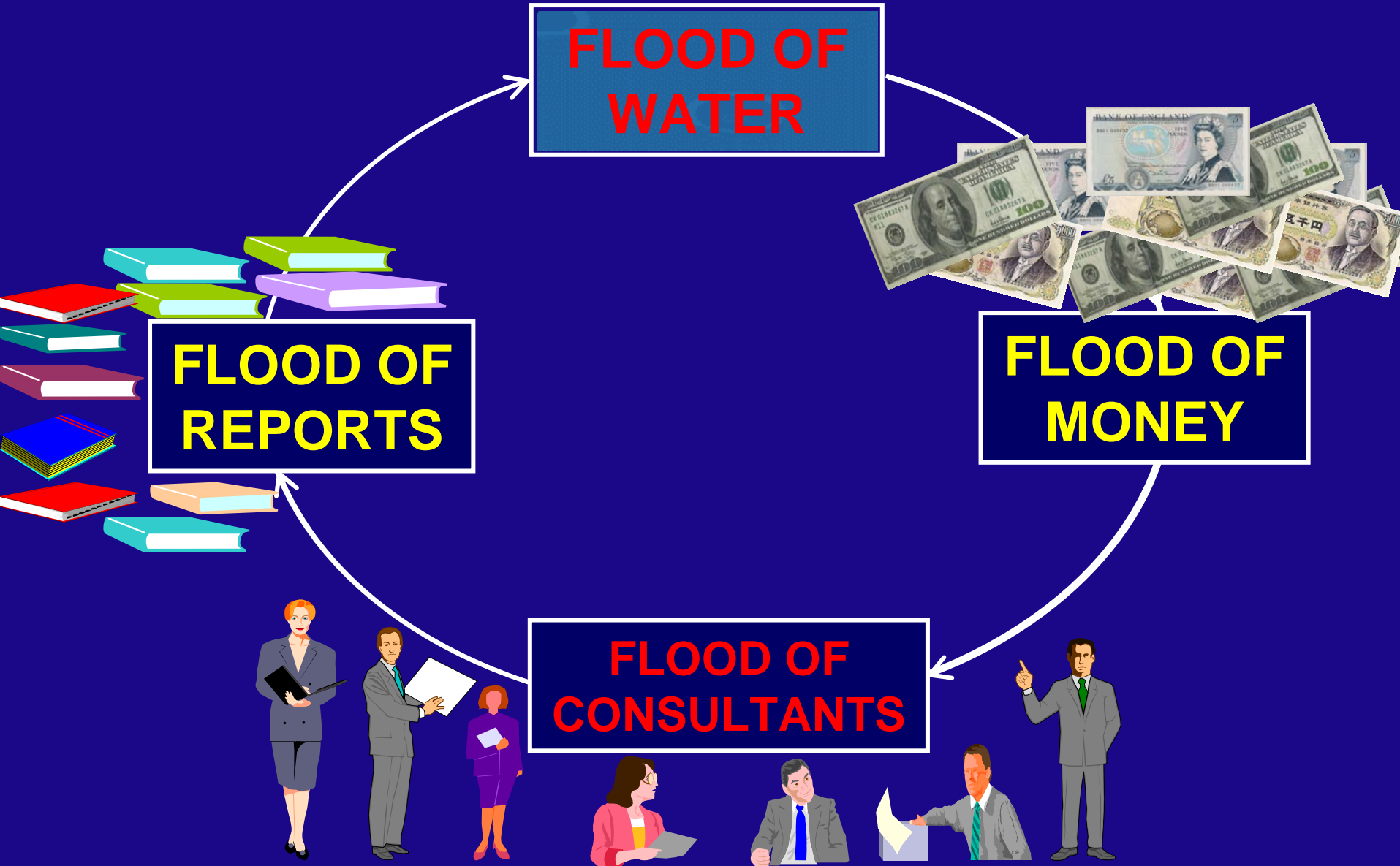
3. RISK REDUCTION







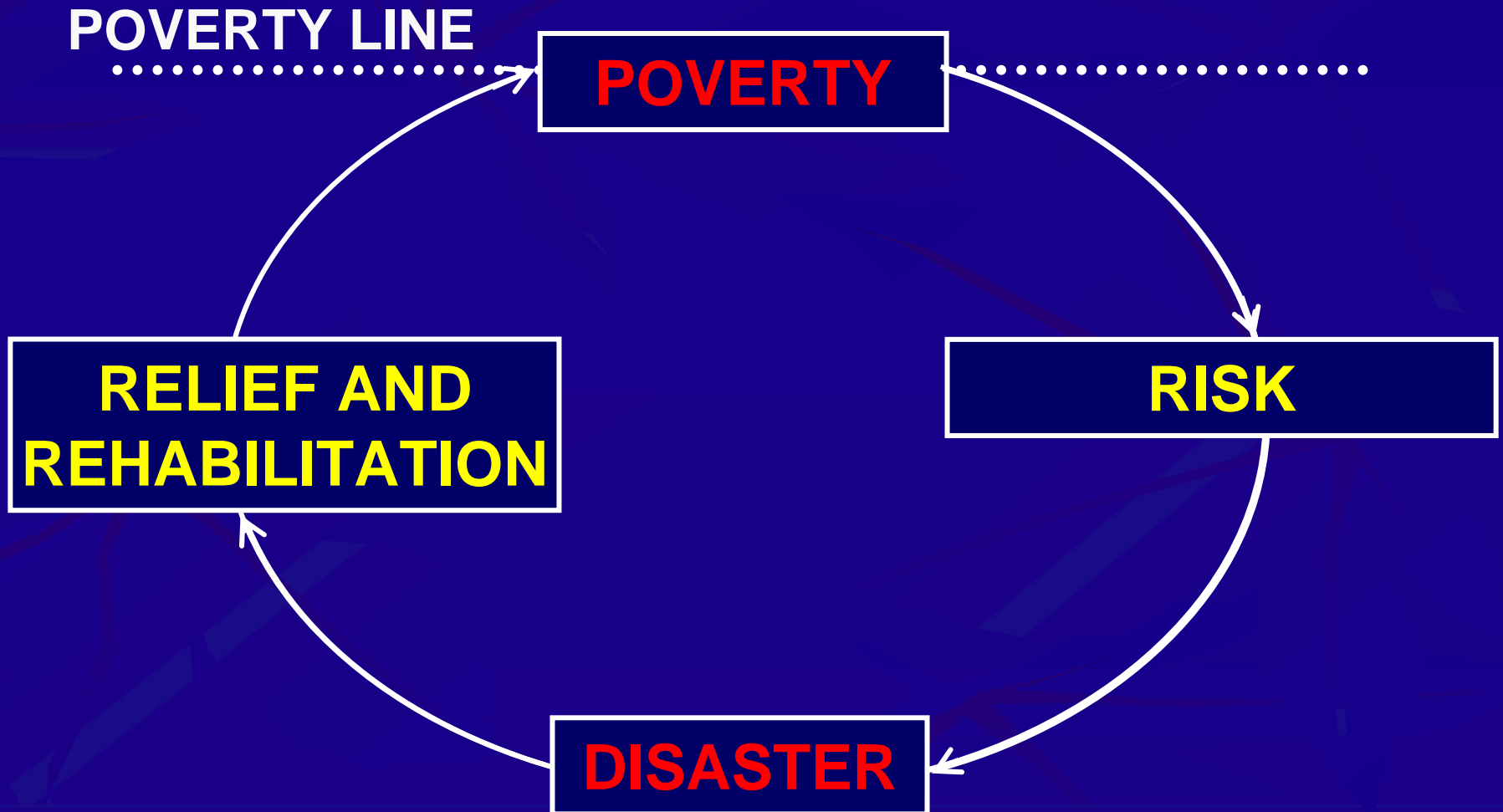
# CYCLE OF FLOODS

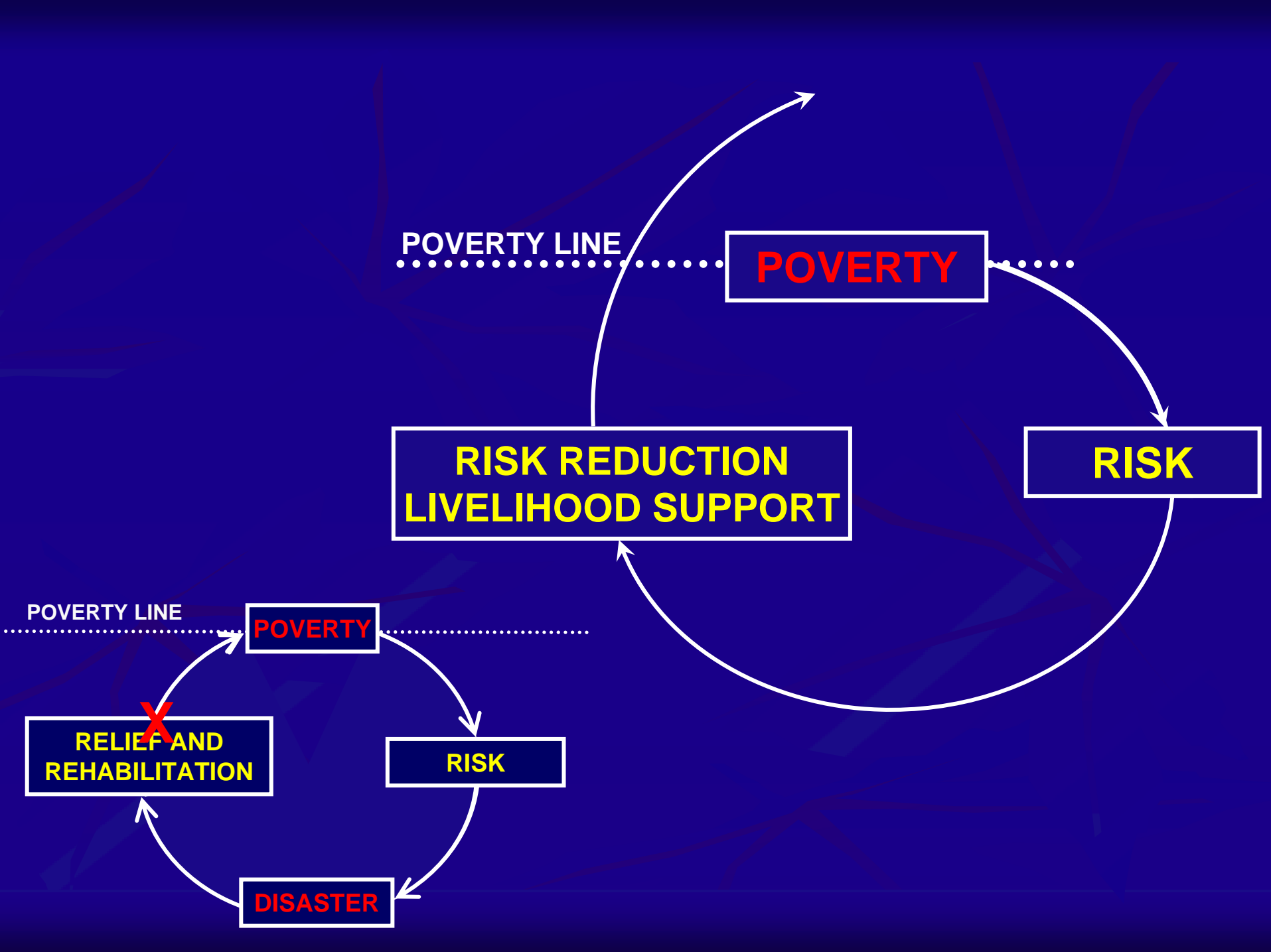


# EMPOWERMENT OF PEOPLE



# VICIOUS CYCLE OF DISASTER AND POVERTY





# ICT FOR RISK REDUCTION



# CHALLENGES

- **DE-EDUCATION OF KEY PLAYERS**
- **COMMITMENT FOR, AND BELIEF, IN THE EMPOWERMENT OF POOR THROUGH ICT**
- **INTEGRATION OF RISK MANAGEMENT INTO DEVELOPMENT PLANNING**
- **SOCIAL, MORAL AND RELIGIOUS RESPONSIBILITIES**

**THANK YOU**