



























## 2015 Dry Season

The original embankment was just on verge of failure and the retired embankment was only some10-20m on the country-side of the original embankment.

In desperation, the community attempts to provide protection..







- On 30 July 2015 a depression developed in the bay of Bengal, which developed as "Cyclone Komen", crossing the coastline on 31 July 2015.
- The original embankment breached at the end point of Baintola khal and developed 3 deep channels across the line of the embankment.
- A large portion of BCG (Britti-Birala-Chandghar-Jaliakhali) and Akra Bahir Akra WMG areas was flooded. According to preliminary reports, 18 villages were affected, 1286 households more or less affected, 404 houses (mud & thached) fully damages and 325 houses partly damaged.



















# Monsoon 2016/Dry Season 2017

The embankment withstood monsoon 2016

In Dry Season 2017, contractor is making slow progress

- Current progress is around 50%.
- Embankment and the breach closures need to strengthened to full section
- Land acquisition is required for a length of around 100m of the proposed embankment
- Primary school needs to be relocated







#### **Case Study Conclusions**

29

• There was every effort to do the right thing

- A considerable investment has been made in repairing the infrastructure
- A significant economic impact on infrastructure and livelihoods
- The uncertainty for the local community has continued for the last 3 or 4 years
- There is a need to act quickly to finalise the current contract and take additional measures to prevent a breach

Bue

Observations and Questions
Pre-emptive action saves money
Provision of technical and UP support to field XEN in presenting his preferred solution to those affected by his decisions
Incentives for contractors to complete and to take

- Incentives for contractors to complete and to take responsibility for ensuring the integrity of the embankment over (say) two flood seasons
- Flexible funding arrangements

 Role of BWDB, UP and polder-level WMA in determining priorities

Bue

30



# Longer-Term Measures 2

32

## **BWDB Design**

 Design Circle-5 of BWDB, advised by a design review committee, reviewed the IWM design and finalized it in October 2016 (to be presented by Md Mutaher Hossain)

Bue

• Tender documents have been prepared

