

NARRI Flood Resistant Shelter Program in SW Bangladesh



What is NARRI?



National Alliance for Response
and Risk Reduction Initiative

To discover more please visit narri-bd.org

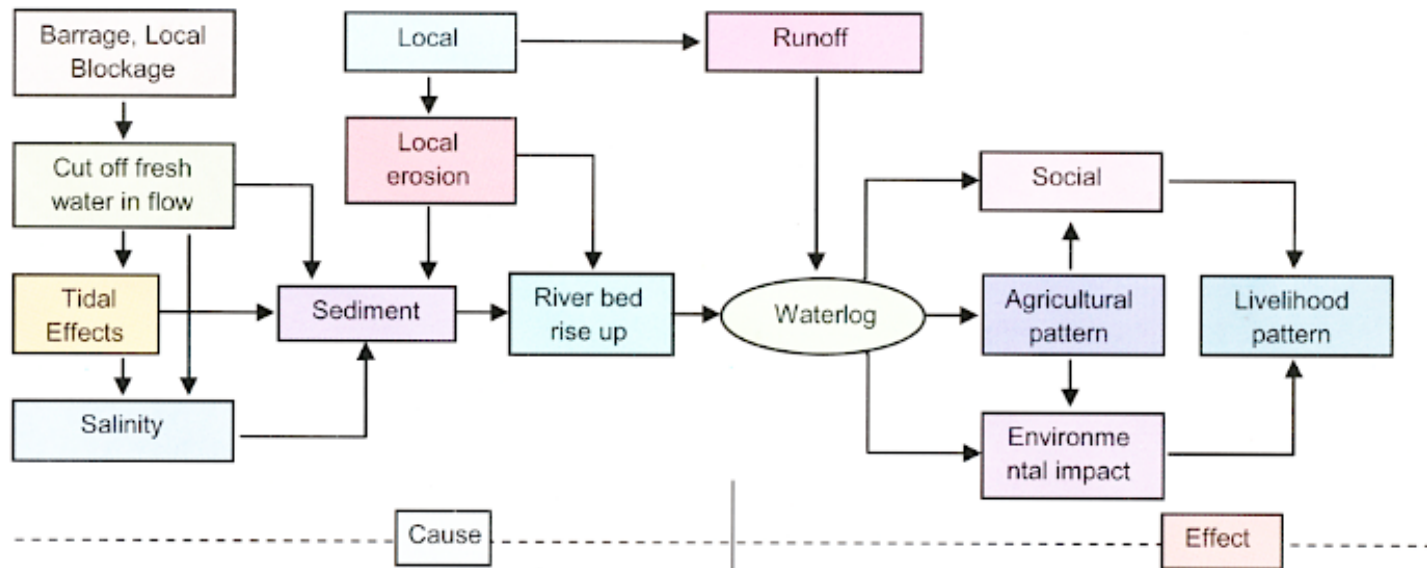
2011 Flooding and water-logging

- July and Aug 2011, heavier than average rains, coupled with drainage congestion
- Waters didn't recede for 3-4 months
- 184,388 HHs/
921,940 individuals affected
- Population displacement



Causes

Flow-Chart of Waterlogging Problem



Rahman, M.S., (2011), Analysis of Physical changes and Socio-economic Impact due to Siltation of the Kopotaksha River and its Adaptive Measures, Unpublished M.Sc thesis paper, IWFM, BUET.

Impacts

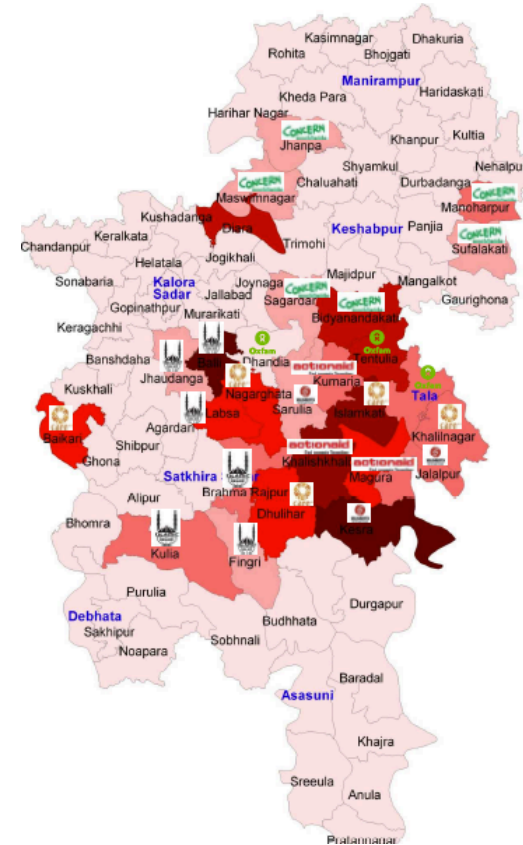
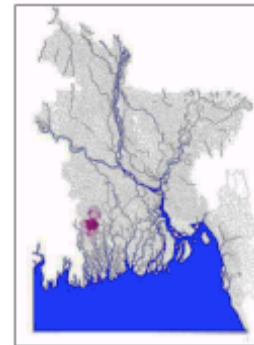
- Water supply, sanitation, shelter, food security challenges
- 23% houses damaged or destroyed: 19,534 houses destroyed, 25,283 partially damaged
- Houses sitting in water for long time
- Usual coping mechanisms stretched



FRESH - Project overview

3 main components:

- Shelter
- WASH
- Advocacy



- 12 month program launched in Feb 2012
- 11,092 shelters and latrines
- 6 INGOs, 5 local NGO partners
- Strong community level engagement
- Accountability mechanisms built into program

Shelter and latrine design

Approach:

- Design developed jointly and same design used by all agencies
- Main risks are flooding and waterlogging, not strong winds
- Increased resilience to expected future flooding and waterlogging



Shelter and latrine design

Key aspects:

- Plinth raising and strengthening for shelter and latrine
- Potential for shelter to be expanded
- Fully maintainable by owners - locally available materials used



Reducing vulnerability to future flooding and waterlogging **while**

Mitigating/reducing potential negative environmental impacts caused by the program

Key considerations

- Materials – Source? Type? Maturity?
- Transportation - damage to roads caused by heavy transportation?
- Sourcing of earth for plinth raising:
 - Pressure on earth collection
 - Must not use top soil
 - Avoid other negative impacts of earth removal



What not to do...



Efforts towards reducing the risk of future water logging

Advocacy component within FRESH

Objective

- To contribute towards the reduction of people's vulnerability to water-logging in a sustainable manner
- Contributing to addressing root causes of water logging

Defining focus and activities, including:

- The improvement of water management systems
- Reduction in the number of illegal occupations of rivers & canals
- Including communities and involving all stakeholders
- Combination of field level and central level activities

Risk reduction – coordinated approach



Conclusion

- Disaster resistant shelter and WASH interventions – reducing vulnerability
- Minimising negative environmental impacts of project – environmental accountability
- Efforts towards longer term risk reduction

BUTits early days... report back with lessons learnt at a later date?

Questions?