




The Tidal River Water Custodian

WHAT?

A process based approach to utilize both geo-ICT technology and local livelihood expertise and Mental Modelling to successfully implement nature based solution (Tidal River Management -TRM)

- Our Focus: Tidal River Management – a recognized nature based practice based on indigenous knowledge and experience
- Our focal area: South West Bengal Delta (Khulna, Shatkhira)
- Our focal audience:
 - Local communities (farmers, fishermen, climate migrants)
 - Local and National decision makers

WHY?

- To address the practical challenges of implementing TRM practices in regional set-up
 - To develop community based resilience strategies
 - To arrive at consensus building and local supported decisions linking gaming and DS technology
 - To explore mental models of all stakeholders in monitoring and decision support process
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Problem statement:

How does our project fits the proposal CIC scheme


Key theme

- Nature based Solutions for adaptation
- Integrated WRM

Principles

- Local partnership and Co development
- Low resources and cultural particularities
- Regional applicability and scalability
- Transferred to other SAR

Expected outcome

- Enhancing local and institutional capacities
 - Enhance local inclusive decision making
 - Awareness and knowledge sharing
 - Replicability in similar environments
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Tools and Trajectory

TOOLS TRAJECTORY

1. Decision Support System (DSS)

- Local community
- Integration of IWRM with
 - Enhance in

Erosion-deposition
- last 40 years

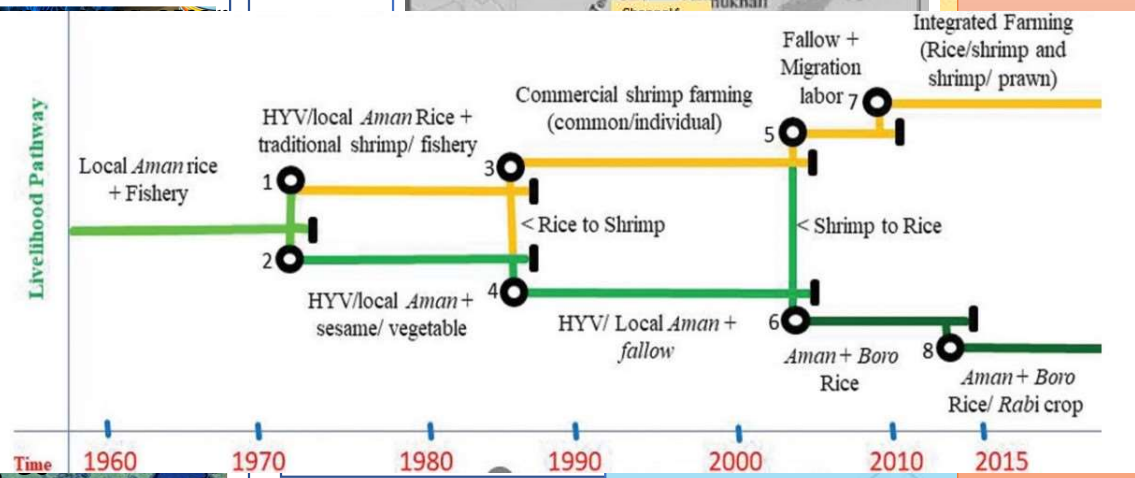
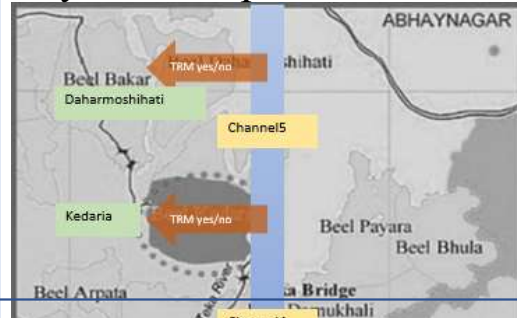


2. Early warning
Monitoring

Generating livelihood options through adaptation pathway
Development to strengthen climatic and economic resilience

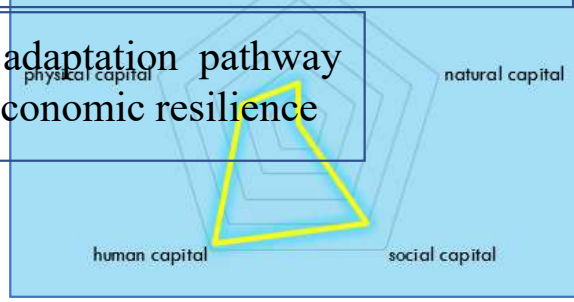
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Physical components



Prime Goal
Resilience and
Adaptation process for
communities

1. Serious
Gaming





Practicalities & Strength of our Project

- Extensive experience with the practical challenges of TRM
 - Involvement with ‘Living Polders, ‘Dynamic Deltas’ projects
- New concepts of **serious gaming** and **adaptation pathway** introduced to the existing application framework of area of interest
 - Gaming approach for exploring mental models of local communities and regional risk profiles
 - Adaptation Pathways approach to explore strategies and sequencing of interventions
 - Geo-ICT to monitor and forecast local and regional drainage and water logging situation
- Prime focus on local community decision making
 - Decision making as a **process**, linking technology with mental models
- Co-development of an initial framework of the project
 - with Dutch experts and local partners (Bangladesh) consisting of companies, educational institution and practitioners.

