

# The Delta Community

Forwarding UDW research in Bangladesh



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# The Delta Community

## Long-term Goal

To serve as a platform for delta-focused research and policy engagement through networking and collaboration



# The Delta Community

Key objectives are -

- (1) to enhance inter-project collaboration through identifying common interest and synergy;
- (2) to connect with the non-UDW delta-focused research in Bangladesh;
- (3) to engage with policy actors specifically BDP 2100;
- (4) to create and maintain continuity and sustainability of the delta community.

# Strength of NWO research to contribute in knowledge agenda of BDP 2100

<b>BDP 2100 Knowledge agenda</b>	<b>NWO (UDW I, II and WOTRO) research theme</b>
1. Climate Change	- Resilient adaptation to flood risks under urban growth and climate change dynamics
2. Adaptive Delta Management	- a fast, integrated model to explore multiple futures and pathways - Exploring uncertainties in Community Livelihood Adaptation for ADM - Making waves: transfer of Dutch delta planning expertise - Deltas dealing with uncertainties
3. Rivers and Ecosystems	- Interaction between hydrological and social processes (Brahmaputra floodplain)

A research may qualify for more than one knowledge agenda

# Strength of NWO research to contribute in knowledge agenda of BDP 2100

<b>BDP 2100 Knowledge agenda</b>	<b>NWO (UDW I, II and WOTRO) research theme</b>
4. Coastal Zone	<ul style="list-style-type: none"><li>- Geo-chemical process investigation in saline aquifer (MAR system)</li><li>- Modeling of aquifer storage and recovery systems</li><li>- Groundwater security in per-urban areas (multi-scalar hydrologic and anthropogenic context)</li><li>- Dynamic polder management for sustainable livelihood</li><li>- The role of participation and learning in strengthening Tidal River Management</li></ul>
5. Flood Risk Management	<ul style="list-style-type: none"><li>- Ecosystem-based flood management strategies</li><li>- Assessing technologies for flood resilience</li></ul>

# Strength of NWO research to contribute in knowledge agenda of BDP 2100

<b>BDP 2100 Knowledge agenda</b>	<b>NWO (UDW I, II and WOTRO) research theme</b>
6. Water for sustained food security	<ul style="list-style-type: none"><li>- a low-cost and simple Arsenic-safe drinking water supply</li><li>- mobile application for agricultural water information services in peri-urban delta</li></ul>
7. Urban Water Management	<ul style="list-style-type: none"><li>- Relations with groundwater mining and land filling by sand in Dhaka city and surroundings.</li></ul>
8. Governance and Institutional development	<ul style="list-style-type: none"><li>- Governance prerequisites of successful implementation of MAR system</li><li>- Participatory institutional approach</li><li>- Polder governance (regional and with TRM)</li></ul>

# UDW research in BDP 2100 Hotspots

- 1.Coastal Zone
- 2.Barind and Drought Prone Areas
- 3.Haor and Flash Flood Areas
- 4.Chattogram Hill Tracts
- 5.River System and Estuaries
- 6.Urban Areas

# Our Researches

- Analyzing planning and implementation
- Transdisciplinary in nature
- Integrating Bottom-up approach, perception
- combining social and technical innovations
- Joining forces for developing adaptive management



# Opportunity for Collaboration with other delta focus research

- UKRI GCRF Living Deltas Hub
- ESPA Deltas
- DECCMA
- Etc.

# Future Research Areas

- Climate change
- Adaptive delta management
- River and ecosystem
- Coastal zone
- Flood risk management
- Water for sustained food security
- Sustainable livelihood of vulnerable community
- Urban resilience
- Governance and institutional development  
(integrating bottom-up perception, sector)



**Phds and Postdocs**

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