Assessing migration and adaptation in deltas — integration in DECCMA


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The WP5 research questions and proposed milestones

Q1) Which socio-economic, climatic-related environmental stresses and governance factors are most important in explaining migration of men and women in the delta?

Analysis of historical & DECCMA household survey data (spatial, temporal, gender-specific)

Preliminary conceptual framework

Tier 1: household migration

Tier 2: household migration & temporal, gender-specific)

Tier 3: household-migrant

Tier 4: household-community

Revised conceptual framework of migration

Final draft conceptual framework of migration and adaptation

Stakeholder validation

Final DECCMA conceptual framework

Q2) What are climate-resilient & successful adaptations for men and women in deltas?

.catalogue of coping, adaptation and development options
devise robust evaluation criteria of adaptation options

toy model development and parameterisation

Q3) What are the advantages & disadvantages of migration as an adaptation to climate stress compared with in situ resilient responses for men and women in the delta?

Model development (Bayesian Network, ABM)

Develop robust evaluation criteria for migration

Tier 1: household

Tier 2: household migration & adaptation

Tier 3: household-migrant

Tier 4: household-community

Tier 5: Spatial systems model

Q4) How can government policy promote more climate-resilient & successful outcomes for men and women in the delta?

Scenario development (climate, environment, etc.)

Scenario testing

Synthesis of development pathways and lessons learnt

The DECCMA project seeks to understand how climate change and sea-level rise might influence migration in three deltas (Ganges Brahmaputra Meghna, Mahanadi & Volta). DECCMA also aims to provide better evidence to inform policy makers about the possible futures of deltas, how adaptation can mediate potentially adverse impacts of climate change, and the potential role of migration as an adaptation option.

WP5 (integration) provides the conceptual underpinning as well as the methodological tools for integration between the work packages. A Fast Track report is prepared outlining the proposed methods of this integration exercise. Similarly to the model development activities, scenario development also requires consortium-wide collaboration and harmonisation of methods.

This presentation aims to enable a consortium-wide understanding and discussion on the planned WP5 activities.

The preliminary conceptual framework of the households (Tiers 1-3)