

Background



Migration and climate change adaptation nexus is highly debated

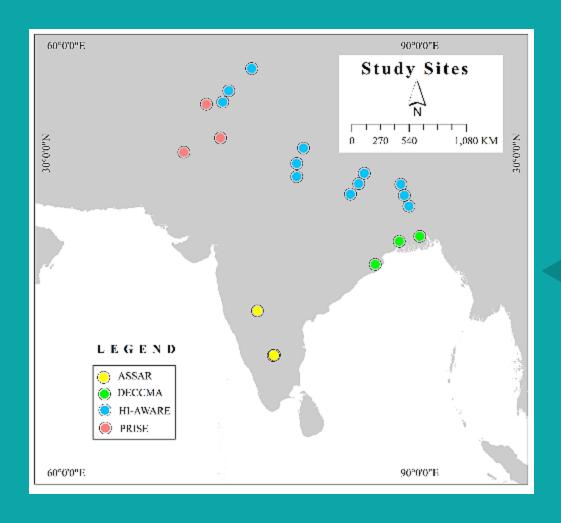


Migration still perceived as a challenge & the policy continues to focus on reducing migration



Empirical quantitative studies limited

Methodology



Climate hotspots approach

...regions where the impact of climate change are well pronounced and is likely to be more severe because of increased vulnerability and comparatively lower adaptive capacity

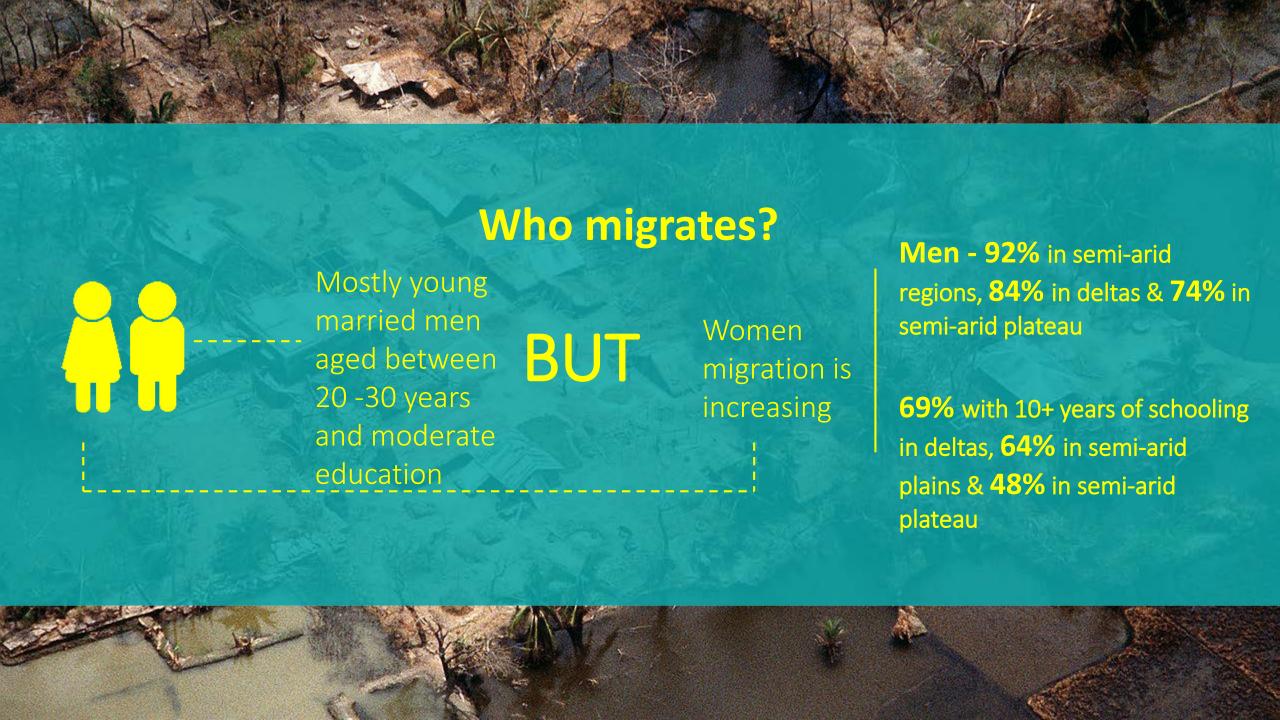
Total Households = 9427

Deltas 4115

1987

River Basins Semi-arid plains Semi-arid plateau 600 2725







Drivers of migration



Major driver is economic

48% in Deltas44% in river basins55% in semi-arid plateaus82% in semi-arid plains



Environment drivers have low attribution

6% in Deltas
12% in semi-arid plains



Not everyone can migrate

24% in Deltas29% in river basins39% semi-arid plateau41% semi-arid plains

Immobile households – 59% in Semi-arid plains and 35% in Deltas

River Basins: Migration & Household adaptive capacity

90%

Perceived change in climate

	Non Migrant	Migrant	
Sector	Households	Households	Difference
Agriculture	27.2	34.44	7.23***
Livestock	14.97	15.9	0.93
Forest	6.45	9.26	2.80**
Water	35.41	34.79	- 0.06



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Semi-Arid Plains: Resilience Index	Livelihood Resilience/ Determinants		Migrant's Score	Non-Migrant's Score			
	Adaptive Capacity						
	Assets, Access, Income and Food security	0.526	0.462				
	Strengthening and Adapting livelihoods		0.467	0.401			
	Anticipatory Capacity						
	Preparedness and planning		0.526	0.452			
	Capacity, Information, and mobilization	0.589	0.536				
	Absorptive Capacity						
	Saving and safety nets	0.504	0.470				
	Substitutable and diverse assets and resou	0.211	0.146				
	Resilience Index Score (Sum of Ad	laptive,	2.822	2.467			
	Anticipatory and Absorptive capacities)	SANE IN Probator to the					
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Semi-Arid Plateau: Life Histories Approach

Code	Household Description and migration type	Implications of migration		Well-being Well-being at source destination
U3: Possibly adaptive Male, 58	 Permanent migrant (30 years), shopkeeper, election officer 	 Improved material well-being, differences in subjective well-being bet husband and wife 	· ·	
G29: Surviving Male, 28	 Semi-permanent migrant (16 yrs). Painter (earlier low skilled labourer), works as agricultural labourer during harvest season 		 Small landholding in village/ lack of appropriate skills & education 	
G12: Positive coping Male, 26	 Semi-permanent migrant (5 yrs). Formal salaried job 	 Stable employment & income,send remittance 	 Technical education that enabled employment 	
U11 : Surviving Male, 33	 Permanent migrant (10 yrs); petty shopkeeper. Extended family reside at origin 	Precarious employmentSeries of informal sector jobs	 Lack of appropriate education and skills, insecurity of housing tenure adversely affecting quality of life 	
U 12 : Surviving Female, 45	 Permanent migrant (25 yrs); tailor Extended family reside at origin 	 Long unemployed leading to debt, living in informal settlement with little facilities. Learning tailoring has given her a livelihood opportunity 	education • Engagement with NGO and	



Deltas:Difference in adaptation measures

Adaptation	Non-migrant household (%)		Migrant household (%)		p-value				
	IBD	MD	BD	IBD	MD	BD	IBD	MD	BD
Taking out a loan	47.2	43.5	70.2	63.6	51.0	72.5	0.001***	0.020*	0.375
Modifications to the house	39.9	33.2	60.3	51.7	41.3	62.6	0.001***	0.008**	0.423
Work outside the village	8.2	16.0	5.0	61.0	51.6	71.6	0.001***	0.001***	0.001***

^{***} p < 0.001, ** p < 0.01, *p < 0.05

IBD = Indian Bengal Delta, MD = Mahanadi Delta, BD = Bangladesh GBM Delta

From response to adaptation

Migration as response

- Low remittances
- Informal work
- Short term migration
- Autonomous adaptation with short term benefits

Government driven coherent adaptation & migration policy

Migration as adaptation

- High remittances
- Formal employment
- Strengthening translocal ties
- Access to planned in-situ options



Supported by the UK's Department for International Development (DFID) and Canada's International Development Research Centre (IDRC)



Centre de recherches pour le développement international





