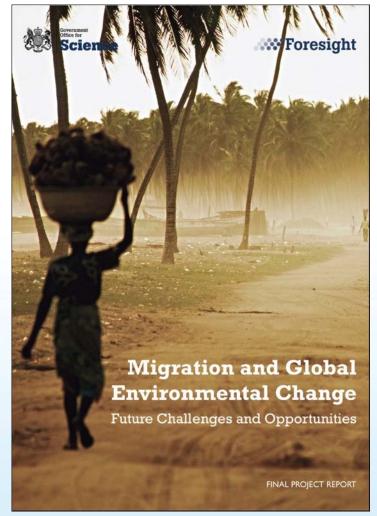


Foresight

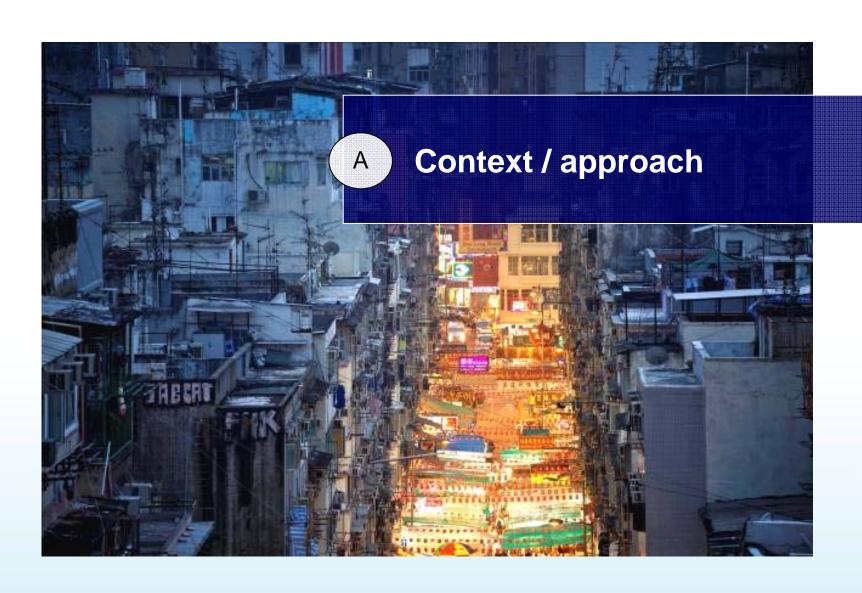
Migration and Global Environmental Change

10th Coordination Meeting on International Migration

Professor Andrew Geddes



www.bis.gov.uk/foresight

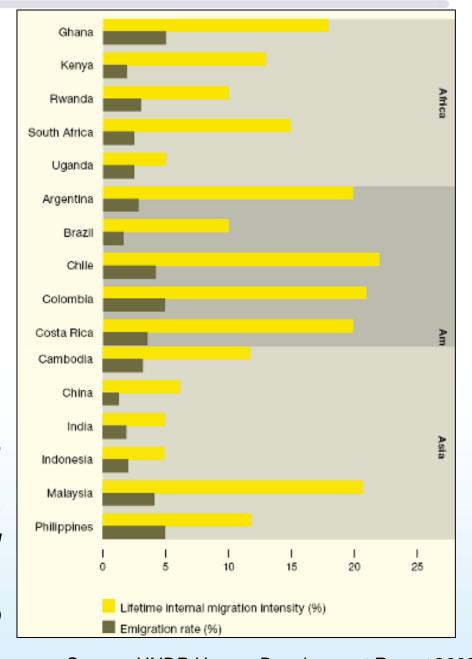


Scope of the Project

- A global perspective
- Importance of internal migration
- Analysis of key ecological regions
- Long term perspective

In 2009, there were approximately 740 million internal migrants compared with approx. 210 million international migrants in 2010.

HDR 2009 / IOM 2010



Source: UNDP Human Development Report 2009

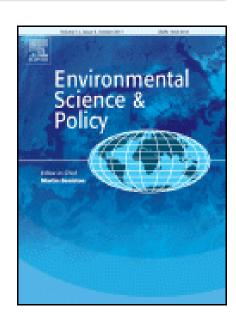
Foresight Approach

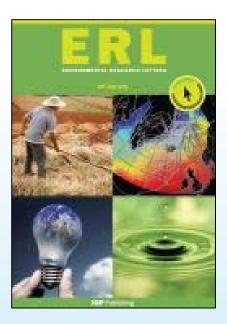
- Independent analysis
- Diverse international experts and stakeholders
- Interdisciplinary
- Peer-reviewed evidence



Nepal workshop





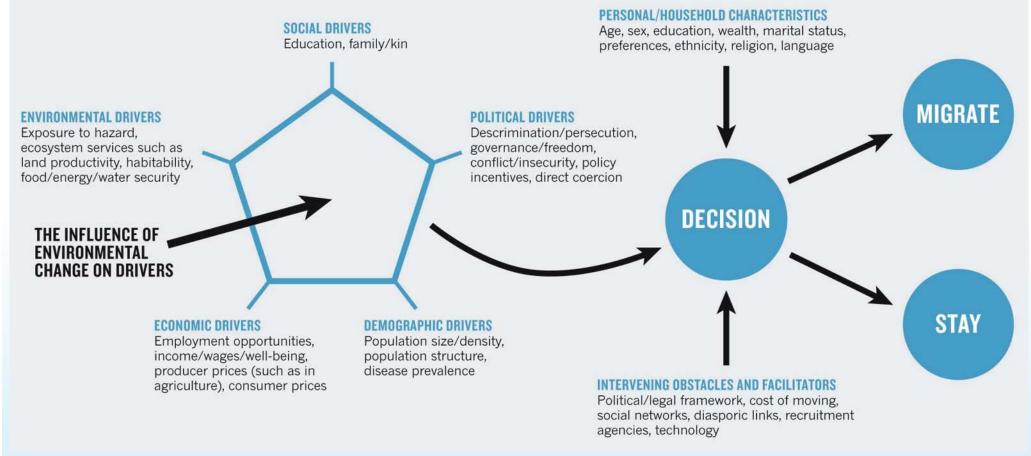




Foresight's Conceptual Framework: the Drivers of Migration

THE DRIVERS OF MIGRATION

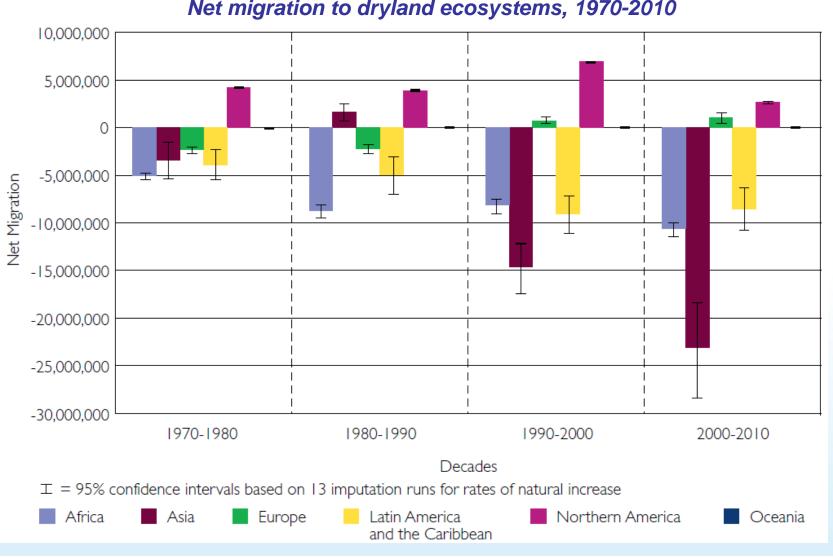
Many factors influence whether a person or family will migrate. Their effects are closely intertwined, so it makes little sense to consider any of them in isolation.



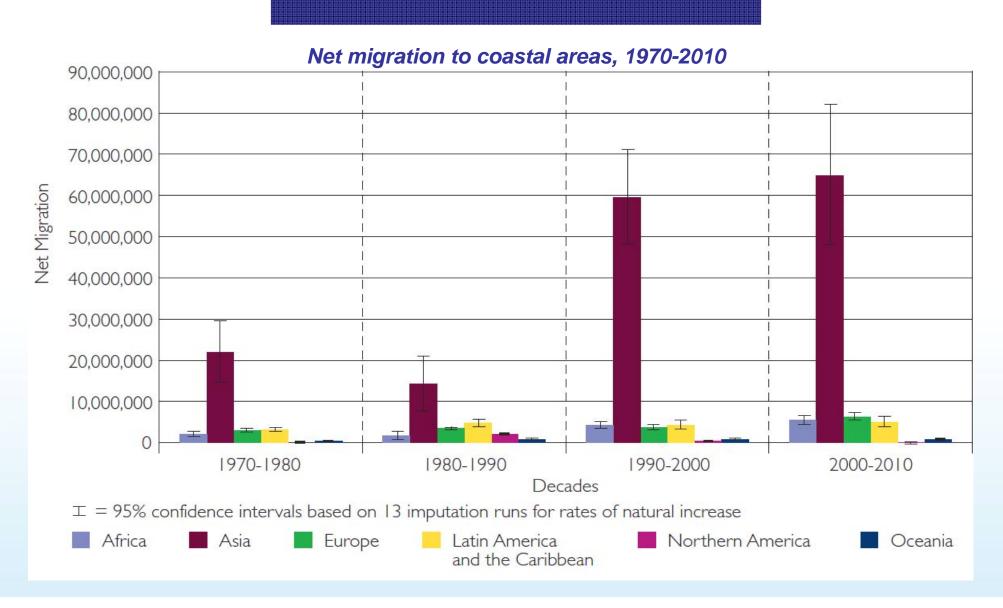
Source: Nature 2011, Vol. 478

Regional Outlooks of Migration

Net migration to dryland ecosystems, 1970-2010

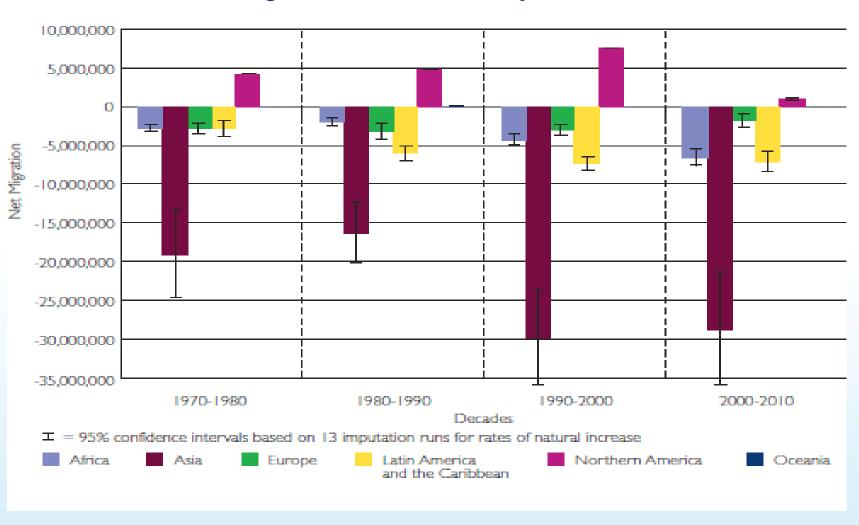


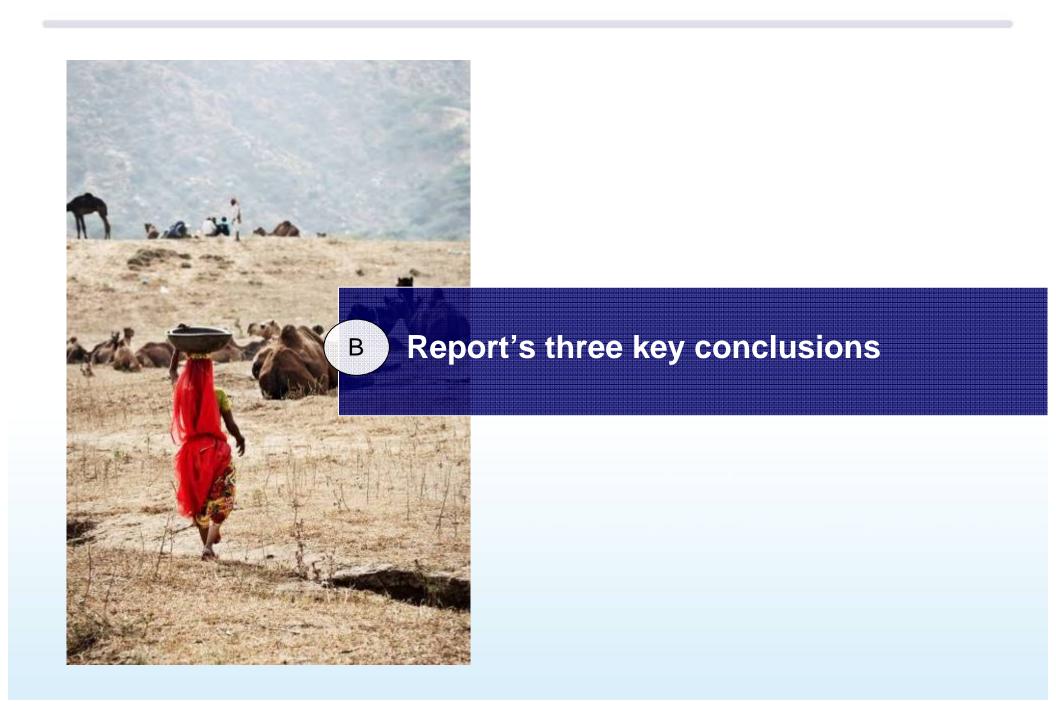
Regional Outlooks of Migration



Regional Outlooks of Migration

Net migration to mountain ecosystems, 1970-2010

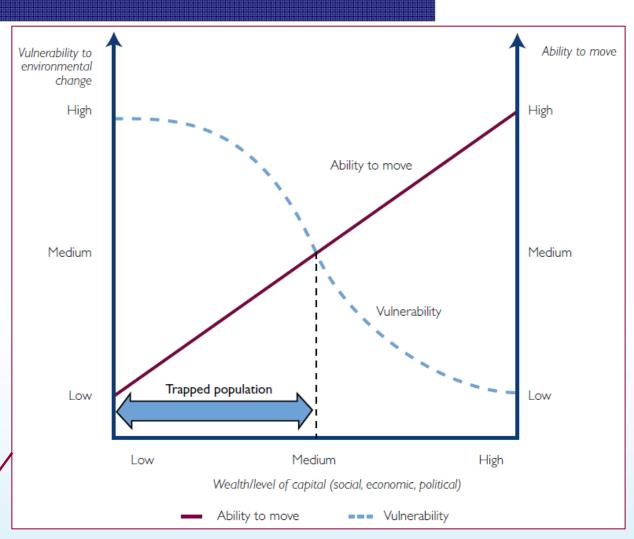




Key conclusion 1: Accounting for immobility



But is this population really likely to migrate..?



Or is it more accurate to describe them as 'at risk' – and possibly even trapped?

Key conclusion 2: Migrating Towards Environmental Risks

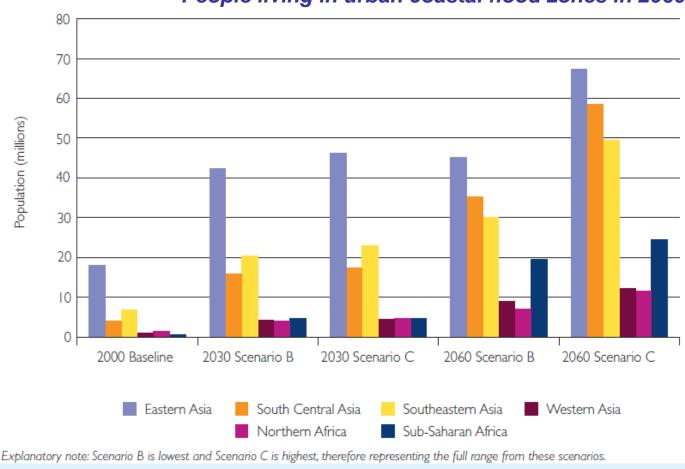
South Central Asia

- 4.1 million in 2000
- 17 million in 2030 (high)
- 59 million in 2060 (high)

Sub-Saharan Africa

- 0.7 million in 2000
- 5 million in 2030 (high)
- 25 million in 2060 (high)

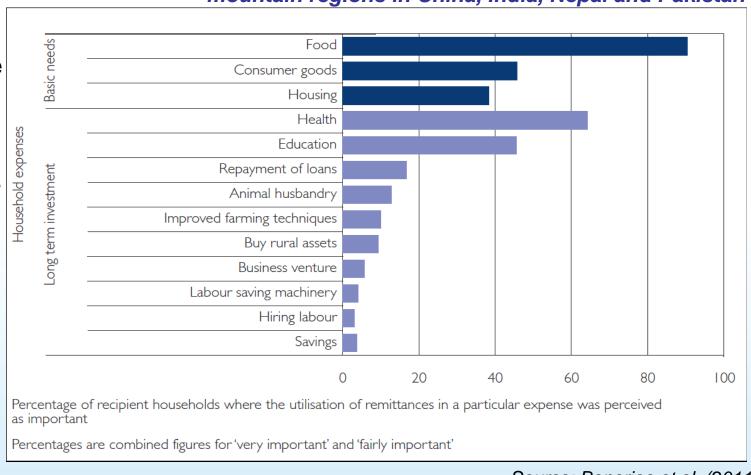




Key conclusion 3: Migration as Adaptation

Perceived importance of remittance utilization for different household expenses across case studies in mountain regions in China, India, Nepal and Pakistan

- **Livelihoods**: comprise social, financial & other forms of capital.
- Migration / remittances can build this capital
- A sustainable livelihood is better able to cope with & recover from stress and shocks



Source: Banerjee et al. (2011)



Summary of policy approach to issue of migration & GEC



Limit or slow environmental change

Reduce impact of environmental change

Increase resilience to environmental change

Plan for/respond to migration in context of GEC

Address protection gaps

Planning for urban growth and adaptation

Mitigate social tensions and conflict

Recognise migration as adaptation to GEC

Relocate communities

Build new cities

Facilitating migration as adaptation



Top down...

....Bottom up

Summary of policy approach to issue of migration & GEC

Reduce the impact of global environmental change (GEC) on migration

Limit or slow environmental change

Reduce impact of environmental change

Increase resilience to environmental change

Plan for/respond to migration in context of GEC

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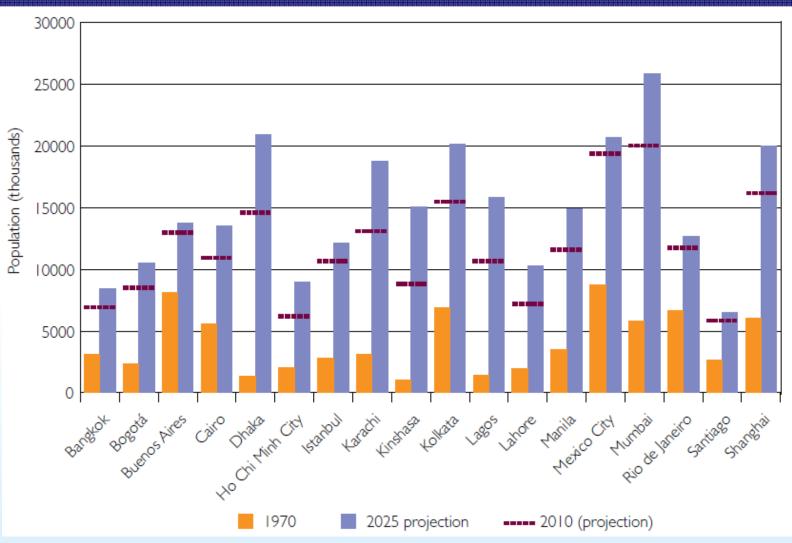
Build new cities

Facilitating migration as adaptation

Top down...

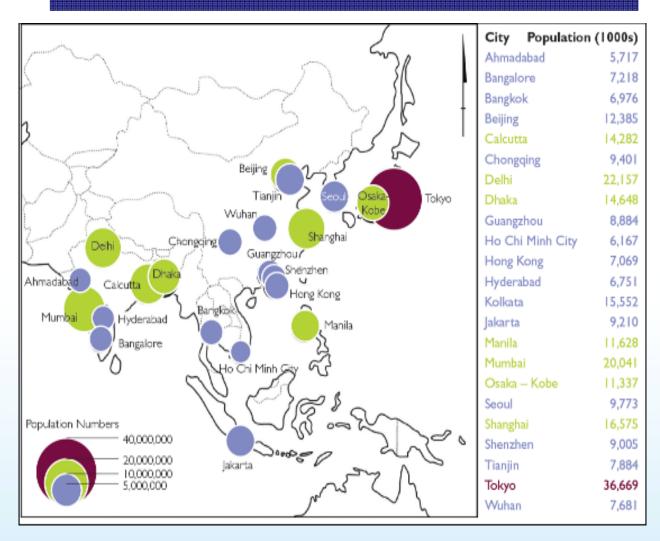
....Bottom up

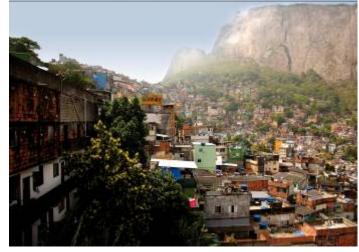
Priorities for international policy 1: A focus on urban areas



Source: UN DESA Population Division (2009a).

1 (cont). Planning for Urban Growth





Appropriate Policies

- Infrastructure & hazards
- Including migrants
- Spatial planning

Source: UNDESA Population Division (2009a)

Priorities for international policy 2: building resilience

The Ashdown Review

Humanitarian Emergency Response Review

28 March 2011 Chaired by Lord (Paddy) Ashdown

- Enhancing livelihoods
- Insurance
- Social protection
- Factoring in migration

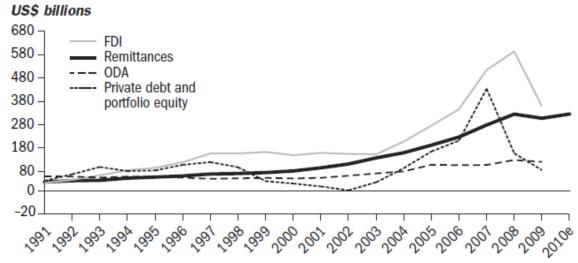


Priorities for int. policy 3: migration as part of the solution

- Adaptation to prevent migration? Not a recommended approach
- Adaptation that builds on migration is important:
 - Education
 - Social linkages
 - Remittances
 - Connectivity between places
- Resettlement only as a last resort

Remittances Compared with Other Resource Flows

Remittance Flows Are Large and Resilient



Source: World Bank (2011)

What about protection gaps and global governance?



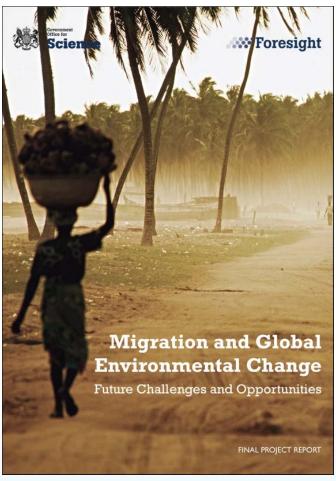
- Protocol on 'environmental migrants' likely to be inappropriate
- Importance of building on existing institutions and legal agreements
- Promoting regional solutions

Case study: New Zealand:

- Pacific Access Scheme
- 75 migrants per year from Tuvalu / Kiribati
- 250 per year from Tonga
- Not linked to the environment.
- Seasonal migration encouraged

Summary of what this means for UN

- Focus on 'environmental migrants' is difficult to justify conceptually...
- ... and critically misses key 'at risk' groups:
 - Those who move towards env. dangers;
 - Those who are trapped & unable to move.
- Yet environmental change, future migration, and links between are fundamental trends deserving of international attention. Key issues are:
 - 1. Urbanisation in the scope of environmental threats
 - 2. How migration can be a pathway to adaptation
 - 3. Harnessing migration to build resilience.
 - Can the Global Forum and HLD develop these agendas?



What are Foresight's next steps?

- Follow-up work
- Supporting stakeholders in interpreting the report for their own organisations (including international, intergovernmental stakeholders)
- Strong track record
- Already developing workstreams, e.g. with World Bank, holding workshop in Ghana, work with other parts of the UN system.
- Think of us for collaboration.







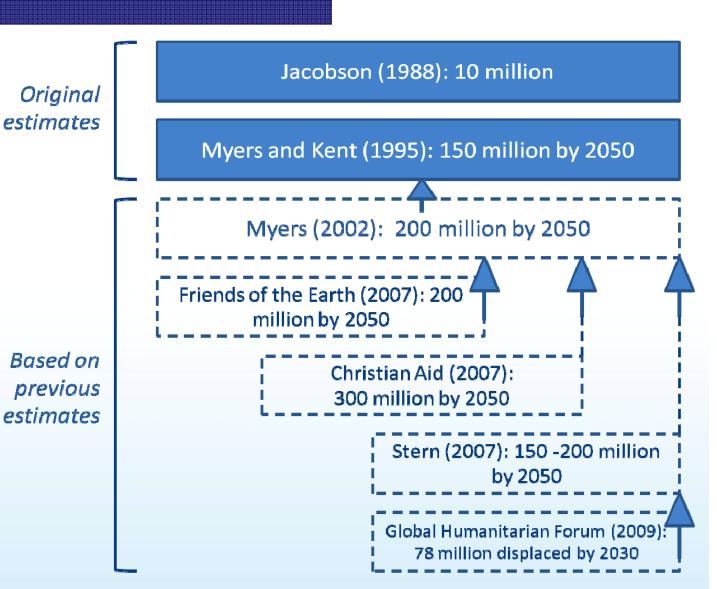




END (Back up slides to follow)

Starting Point: Existing Knowledge

- The roots of 'environmental migration' estimates
- Distinguishing populations 'at risk' from actual migrants
- The next stage of the debate



Three Key Ecological Regions

Drylands



Low-Elevation
Coastal Zones

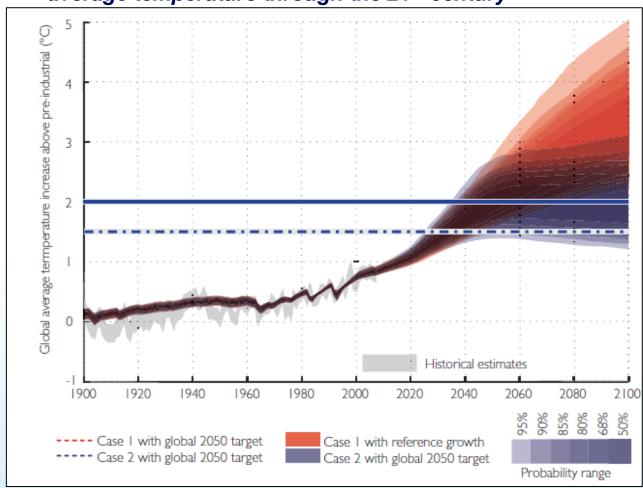


Mountain Regions



Slowing the Rate of Environmental Change

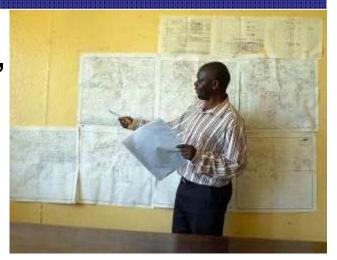
The effects of the Copenhagen Accord on global average temperature through the 21st century



Source: Rogelj et al. (2010).

Reducing the Impacts

Forecasting, Warning



(DFID / International Development Research Centre / Thomas Omondi)



Structural measures (e.g. water supply)

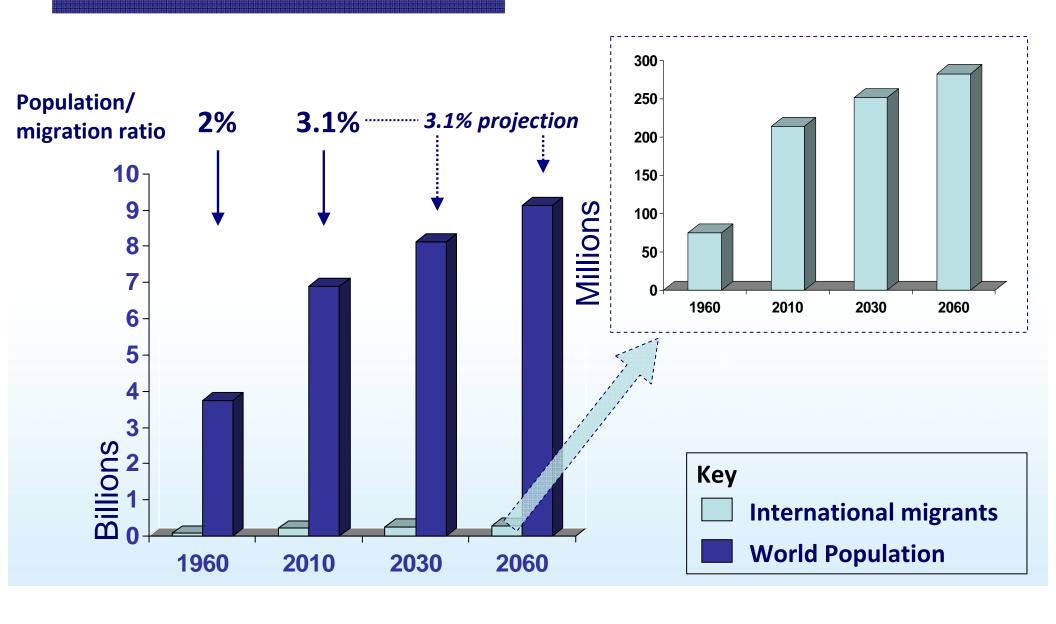


Emergency response

Reducing exposure (e.g. agricultural practices)



Planning for migration



Conflict and social tensions

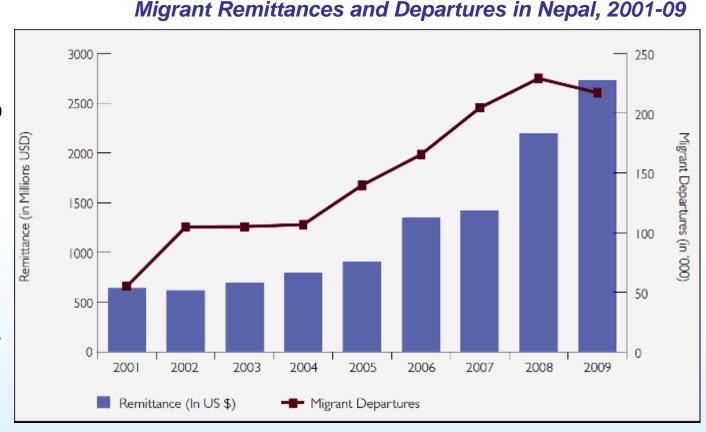
Causal linear relationships are difficult... but this is what we can say:



Trends	Policy Responses
Migration can interact with tensions in destinations	• 'Normal' urban development
	Community-led conflict resolution
Conflict can cause <u>immobility</u>	Factor trapped populations into 'normal' conflict policies
	Resolving resource conflict

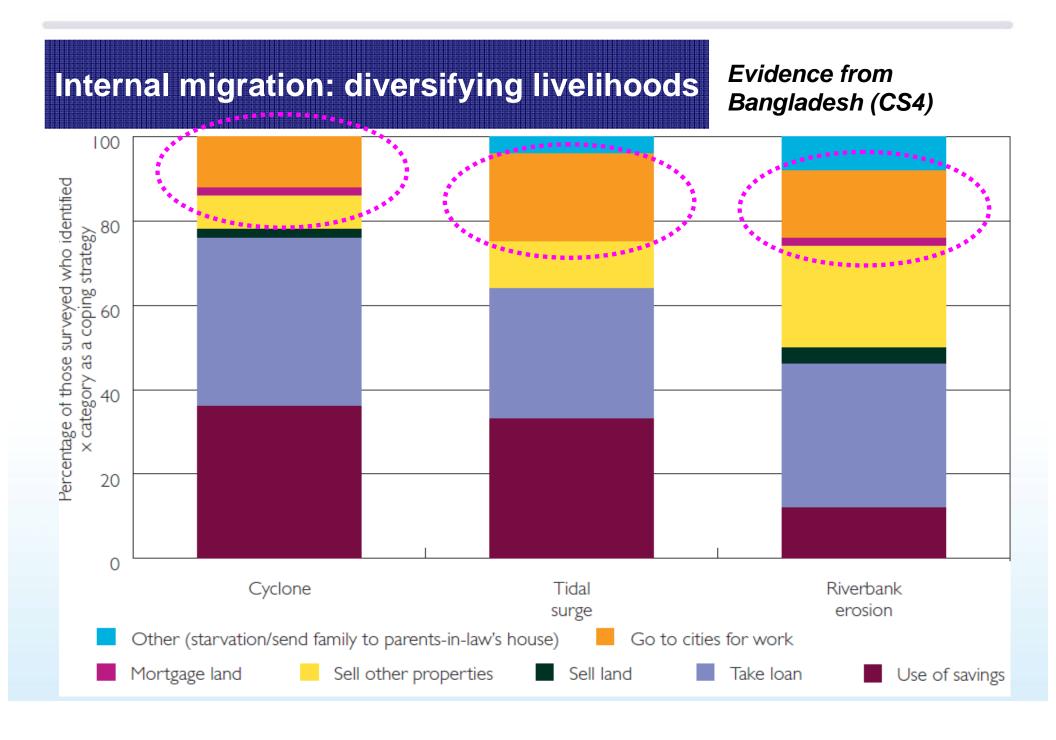
The Importance of Remittances

- 2009: international remittances = US\$307bn, compared to **US\$120 ODA**
- Africa: remittances quadrupled to US\$40bn between 1990-2010
- Remittances account for 28% of Tonga's GDP, 22% of Samoa's



Source: World Bank (2011), Ratha (2011)

Source: World Bank (2009a)



Building migration into adaptation planning

Three Domains of Measure Covered in Paragraph 14(f) of the Cancun Adaptation Framework

