

Literature review on vulnerability and adaptation to climate change and sustainable development

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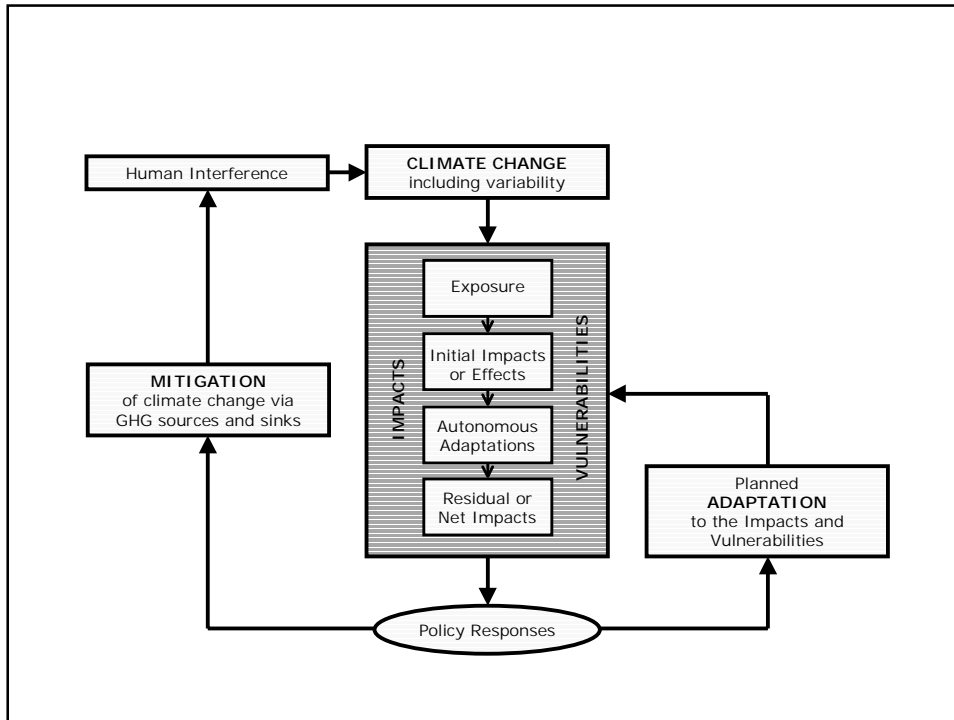
Climate Change Programme

IIED

London

Climate change and sustainable development

- Mitigation
 - Developed countries
 - Developing countries
- Vulnerability and Adaptation
 - Developed countries
 - Developing countries



Vulnerability and Adaptation

- IPCC Third Assessment report
- Food security
- Natural hazards
- Human health
- Natural resource management

Vulnerability at different scales

- Household
- Sub-regions within countries
- Countries/national
- Regional (multi-country)
- Global (inter-country)

Vulnerability by sectors

- Water resource
- Coastal zones
- Natural disasters
 - Floods
 - Droughts
 - Hurricanes/cyclones
- Human health
- Natural ecosystems

Vulnerability by regions

- Africa
- Asia
- Small island states
- Latin America

		Anticipatory	Reactive
Human Systems	Private	<ul style="list-style-type: none"> · Purchase of insurance; · Construction of house on stilts; · Redesign of oil-rigs. 	<ul style="list-style-type: none"> · Changes in farm practices; · Changes in insurance premiums; · Purchase of air-conditioning.
	Public	<ul style="list-style-type: none"> · Early-warning systems; · New building codes, design standards; · Incentives for relocation. 	<ul style="list-style-type: none"> · Compensatory payments, subsidies; · Enforcement of building codes; · Beach nourishment.
Natural Systems		X	<ul style="list-style-type: none"> · Changes in length of growing season; · Changes in ecosystem composition; · Wetland migration.

Adaptation

- Policies
- Adaptive capacity
- Economic estimation
- equity

Adaptation linkages

- Mitigation (CDM)
- Other MEAs
 - Desertification
 - Biodiversity
 - Ramsar
- Development
 - NSSD
 - PRSP

Adaptation funding

- Climate Change Fund
- LDC Fund (NAPAs)
- Adaptation Levy(on CDM)
- Development funding
 - Multi-lateral
 - Bilateral

Conclusions

- Policy
 - National planning
 - International funding policies
- Development assistance
 - Role of adaptation
 - Incremental cost concept
- Research
 - Linkages between adaptation and mitigation
 - Equity related issues