

**IPCC TAR WG II FINDINGS REGARDING
ADAPTATION AND THEIR IMPLICATIONS FOR
IMPACTS/VULNERABILITY/ADAPTATION METHODOLOGIES**

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Mont Gabriel
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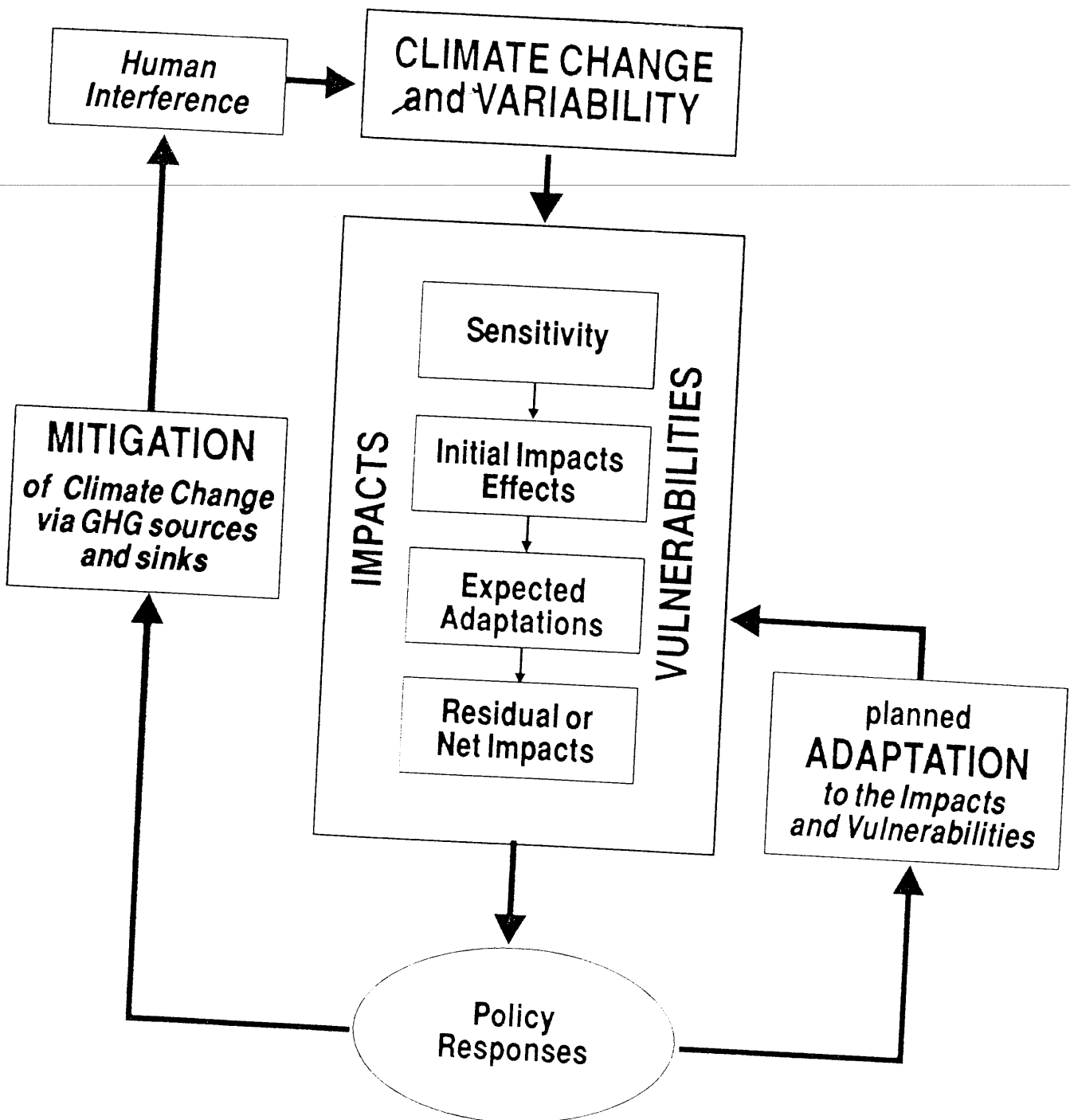
What is Adaptation to Climate Change?

Adjustments in ecological, social or economic systems in response to actual or expected climatic stimuli, their effects or impacts.

Refers to changes in processes, practices and structures to moderate potential damages or to benefit from opportunities associated with changes in climate

Involves adjustments to reduce vulnerability of communities, regions and activities to climate change and variability..

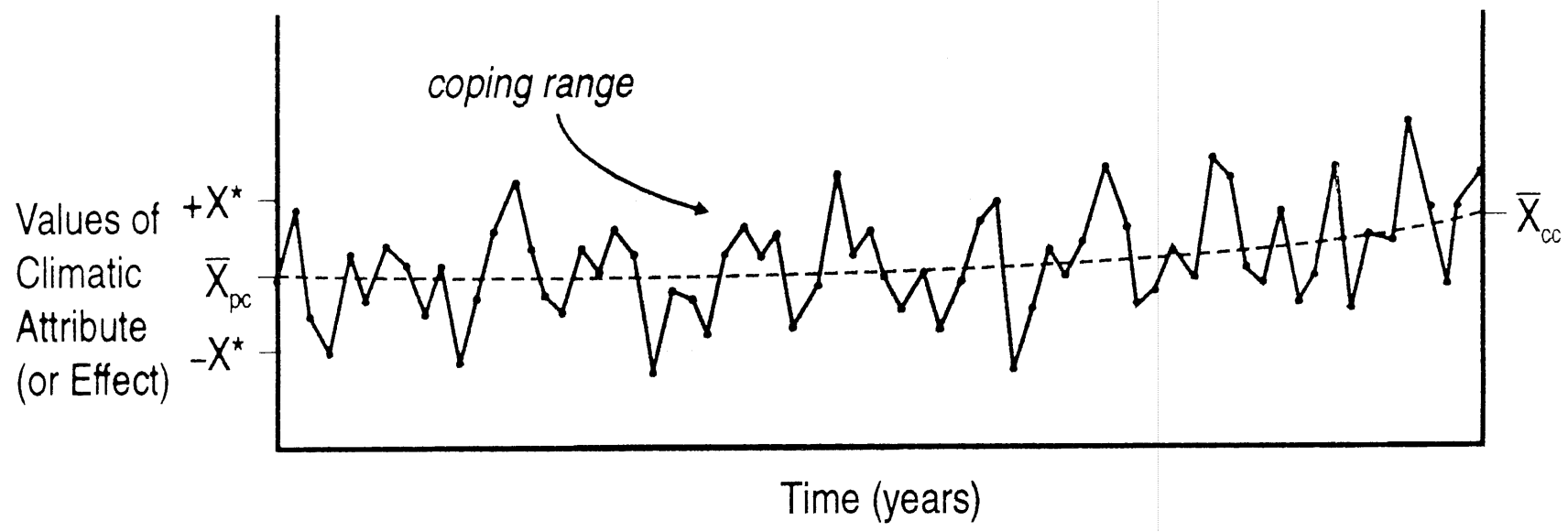
Adaptation, UNFCCC, Kyoto



Key Questions in the Science and Policy of Adaptation to CC

- Who or what adapts?
- Adaptation to what?
- How does Adaptation occur?
- How good is the Adaptation?

Hypothetical Climate Time-Series



Types of Adaptation

		Anticipatory	Reactive
Human Systems	Private	<ul style="list-style-type: none"> • crop diversification • purchase insurance • house designs 	<ul style="list-style-type: none"> • crop diversification • borrow, change activity • reconstruction, relocation
	Public	<ul style="list-style-type: none"> • early-warning • building codes • infrastructure 	<ul style="list-style-type: none"> • disaster relief • relocation incentives
	Natural Systems		<ul style="list-style-type: none"> • changes in ecosystem composition, location • wetland migration

Assumed Steps in Adaptation

- identify potential measures / options
- evaluate / assess options
- select good / best options
- implement options

Determinants of Adaptive Capacity

Economic Resources

Technology

Information and Skills

Infrastructure

Institutions

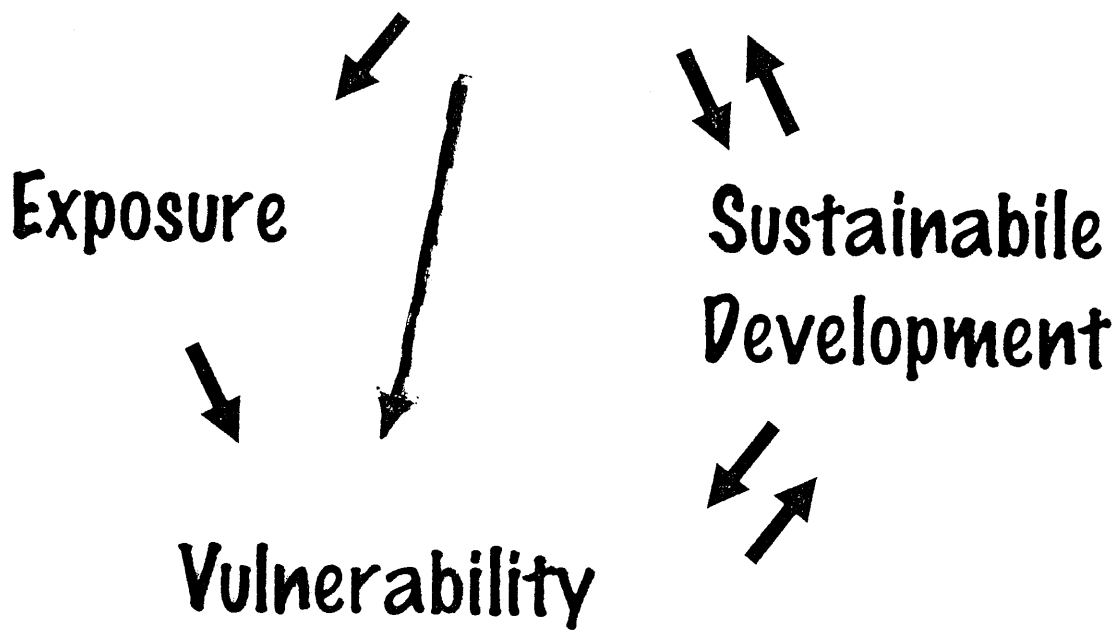
Equity

Adaptive Capacity

Exposure

**Sustainable
Development**

Vulnerability



Needs in Impact/Vulnerability/Adaptation Methodologies

- **Alternatives to Scenario-based studies**
 - ~ relevant climate attributes
 - ~ relevant development issues, processes
 - ~ role of non-climate forces
- **Vulnerability Assessments**
 - include ~ impacts (in what, to what . . .)
 - ~ adaptive strategies, capacity
- **Adaptation and Adaptive Capacity**
 - ~ part of management, development processes
- **Knowledge Gathering**
 - ~ rather than "data collection" and "numerical modelling"
 - ~ framework rather than procedures
- **Stakeholder Participation**
 - ~ assessment and promotion must involve those vulnerable and those making decisions
- **Methods must be Practicable**