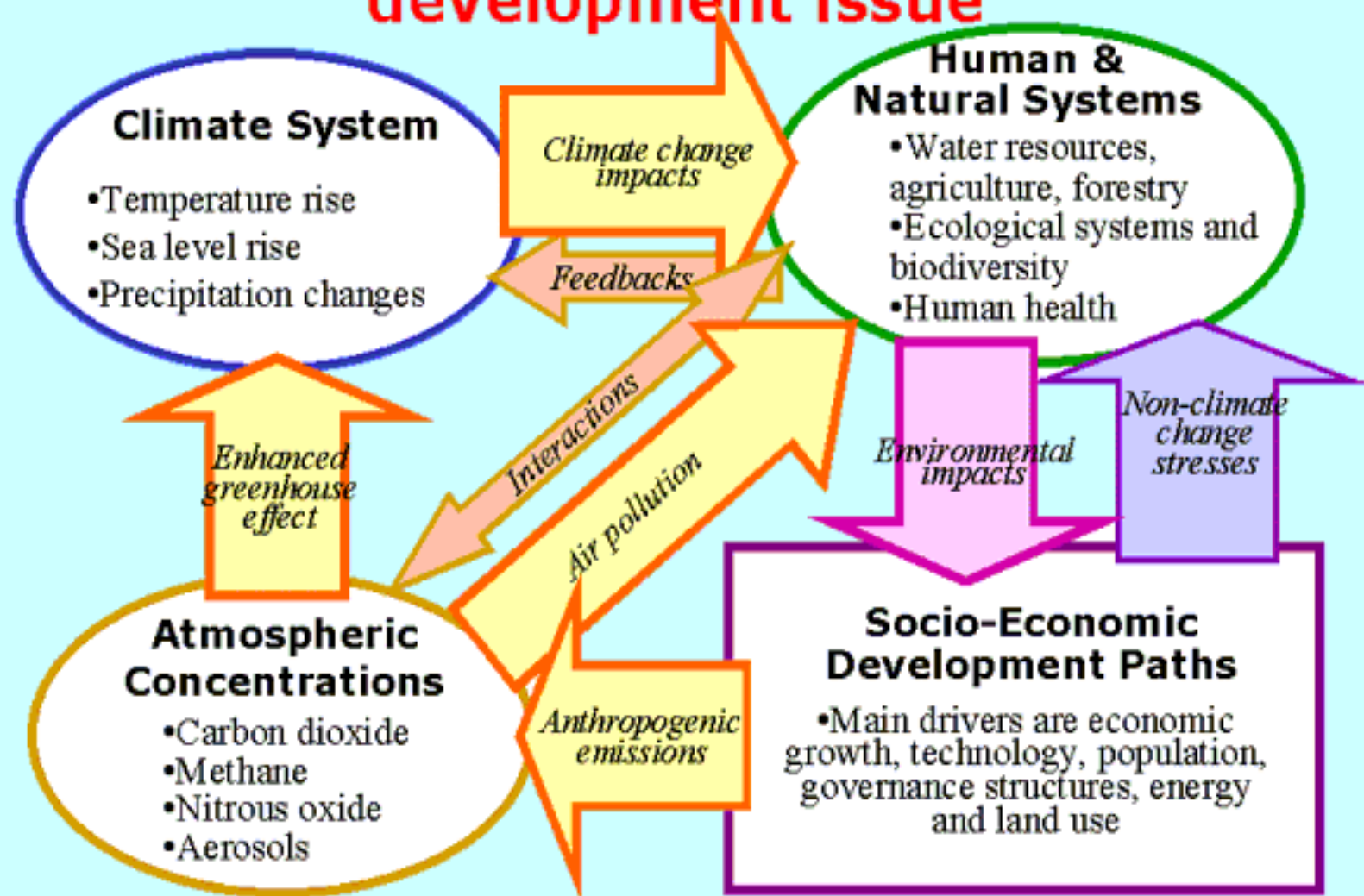


Cooperative Approaches to Science and Technology in Asia and the Pacific

14th Asia and the Pacific Seminar on Climate Change
21-24 September 2004

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Figure 9: Climate change is a sustainable development issue



Science and Climate Change

- Intergovernmental Panel on Climate Change (IPCC)
- Objective: To assess scientific, technical and socio-economic information relevant for the understanding of climate change, its potential impacts and options for adaptation and mitigation
 - 2001 Third Assessment Report
 - 2007 Fourth Assessment Report

Science and Policy Framework

Agreed:

- Worldwide scientific consensus on global warming
- Need to take steps to address the global warming

Disputed:

- How to address global warming and climate change issues

Technology and Climate Change

- Tools to respond to take steps in addressing climate change issues
- Low Carbon Technologies: Energy Efficiency, Decarbonisation in the use of Energy, Fuel Cell, Carbon Sequestration
- Technology itself does not inherit elements of sustainability. Needs sound policy framework to ensure sustainability

Challenges

- Technologies are available to reduce greenhouse gas emissions but policies and measures are needed to realize the technological potential
- The real challenge of controlling emissions is to overcome the many political, economic, social and behavioural barriers to implementing mitigation options

Challenges

- Scientists must still identify the level of GHG emission that the atmosphere could sustain without an adverse impact on human and natural systems
- Strategies to reduce emissions would have to be mutually agreed.
- Linking technology development and utilization to sustainable development

Cooperative Approach

- Collaborative research in science and technology
- Joint technology development including promotion of endogenous technology
- Capacity-building in science and technology
- North-South AND South-South

Thank you.
