



Welcome

# Responding to the needs of the climate policy community



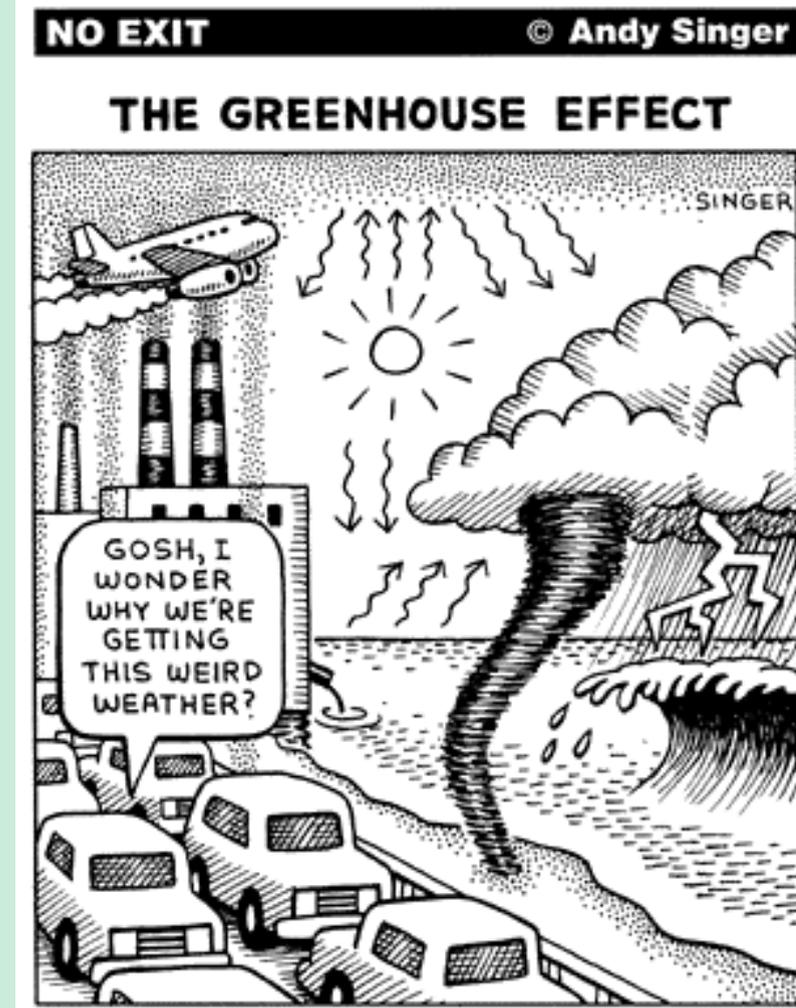
## Perspectives from IGBP

Kevin Noone, IGBP Executive Director  
UNFCCC SBSTA Side Event, Bonn, Germany, 19 May 2006

GLOBAL  
I G B P  
CHANGE

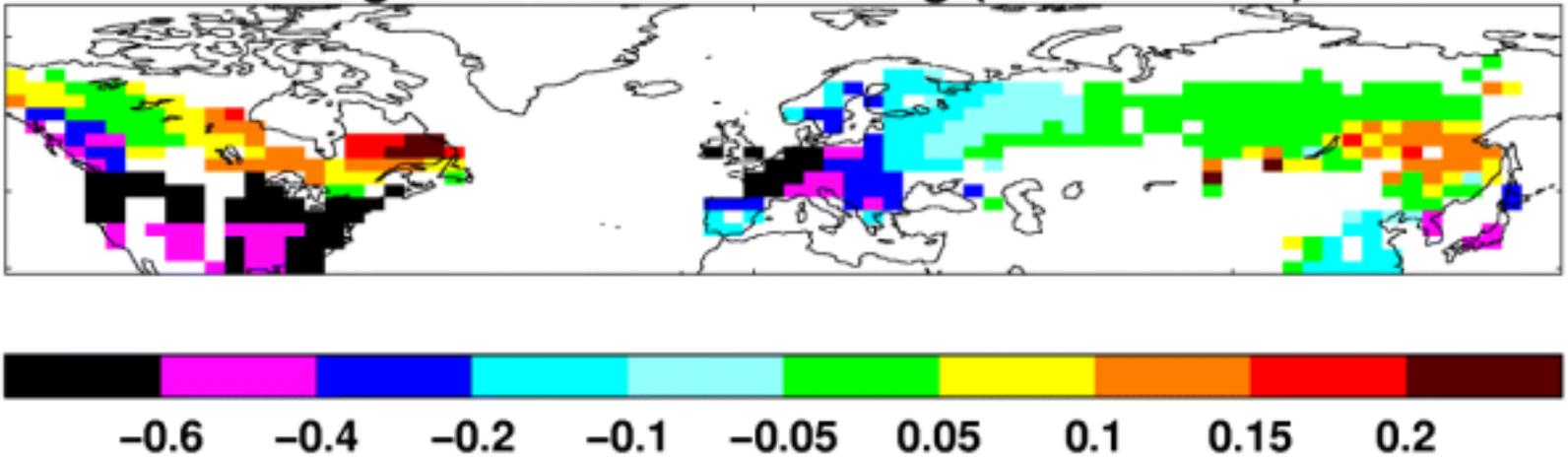
# Outline

- Scientific contributions
- Structural contributions
  - Direct contributions
  - Empowering developing country scientists
  - Enabling multidisciplinary, international science
- Thoughts for the future



# Net radiative forcing due to a 1 ha “carbon sink” plantation in different locations

Net global radiative forcing ( $\text{nW m}^{-2} \text{ ha}^{-1}$ )



**Positive net forcing implies afforestation causes net warming**

**Some regions see neutral effect of afforestation**

**Some regions still see net negative forcing (cooling) - but smaller than that expected from carbon sequestration alone**

# Direct Contributions

- *28 SC, project SSC members contributed to IPCC, 7 to MA*
- 10: Improved observations of the climate system
  - *GEO, IGOS, CEOS*
- 15: Improved understanding of radiative forcing, processes & coupling
  - *IGAC ACE experiments*
- 16: Unresolved processes and coupling
  - *Aerosol-cloud-precipitation-climate (LBA)*
- 17: Improved understanding of implications of atmospheric GHG concentrations
  - *C<sup>4</sup>MIP, AIMES “Applied Earth System Science”*

# Empowering developing country scientists

- National committees in 73 Countries
- Criteria for SC, SSC membership: 1) scientific excellence; 2) complementary backgrounds; 3) geographical representation; 4) gender balance
  - Example: GLP SSC (co-sponsored with IHDP): USA(3), The Netherlands, Argentina, France, Australia, India, China, Kenya, Denmark, Japan, Austria, Brazil, New Zealand, South Africa. 5/16 female.
- New IGBP Chair (Carlos Nobre) is from Brazil
- Activities carried out with local collaboration

Best available  
scientific information

IHDP



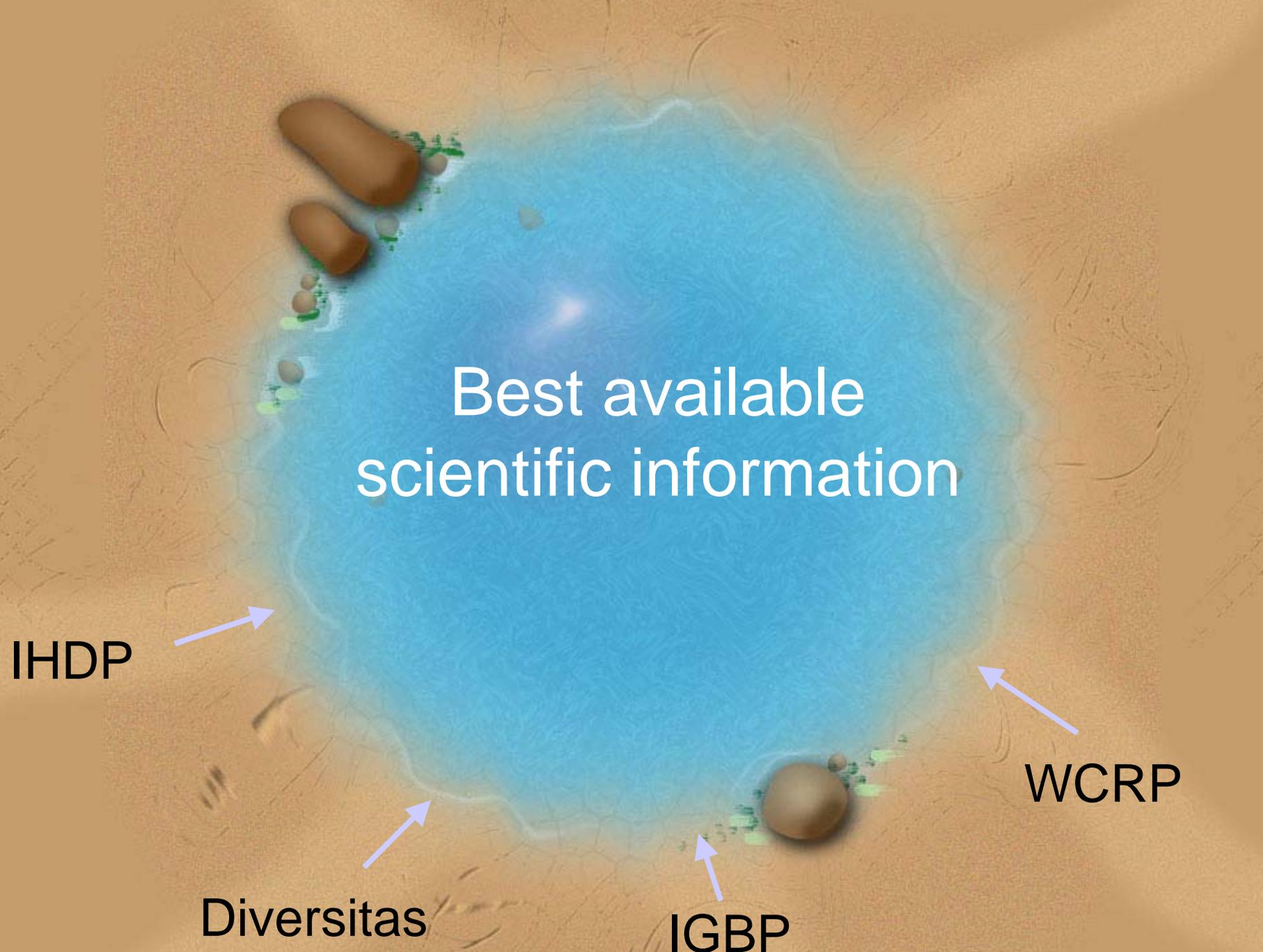
Diversitas



IGBP



WCRP



IPCC

Millennium Ecosystem  
Assessment

Best available  
scientific information

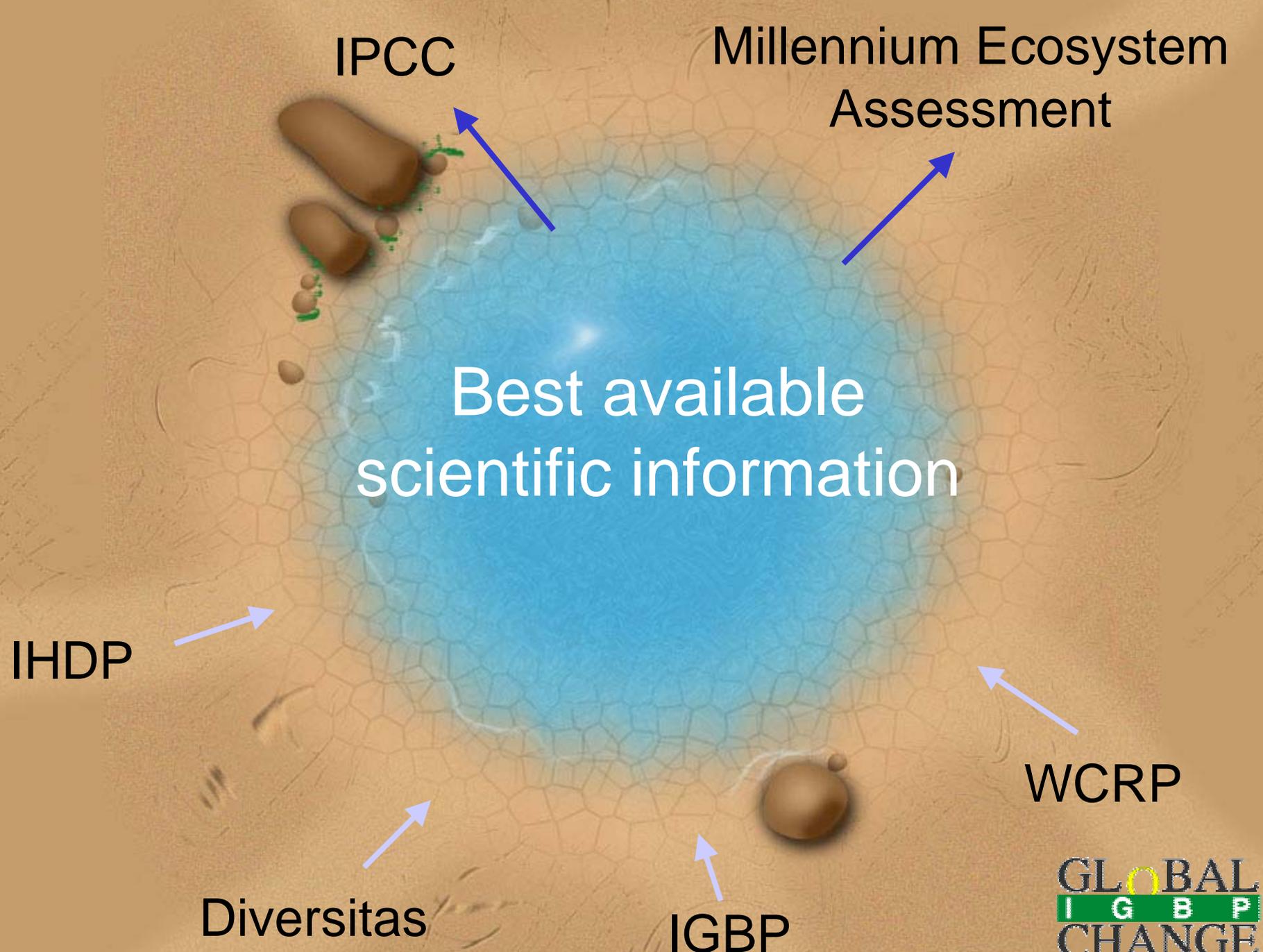
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IPCC

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IPCC

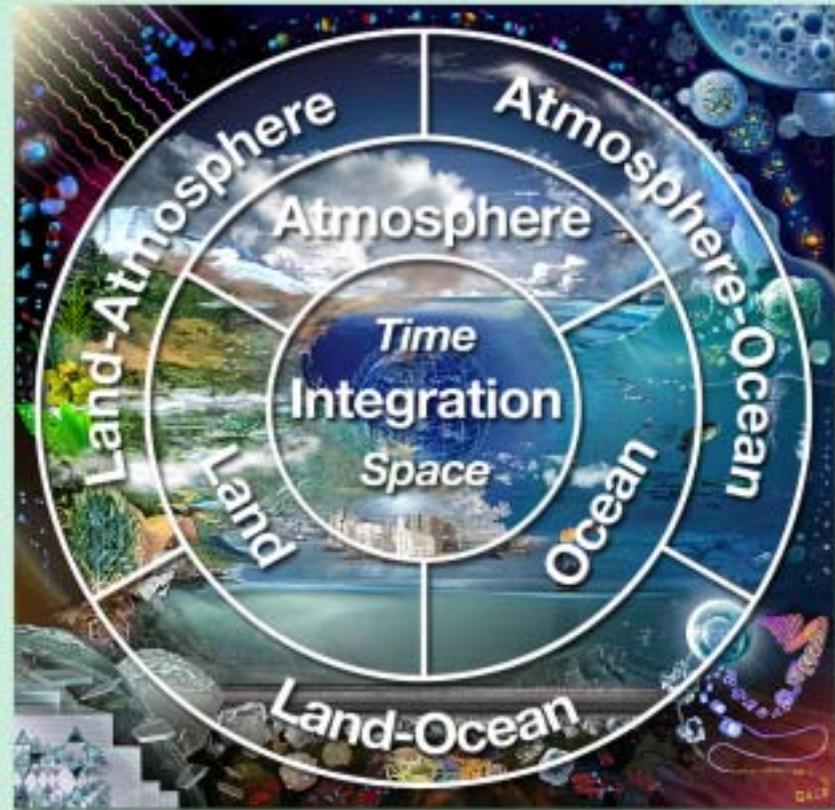
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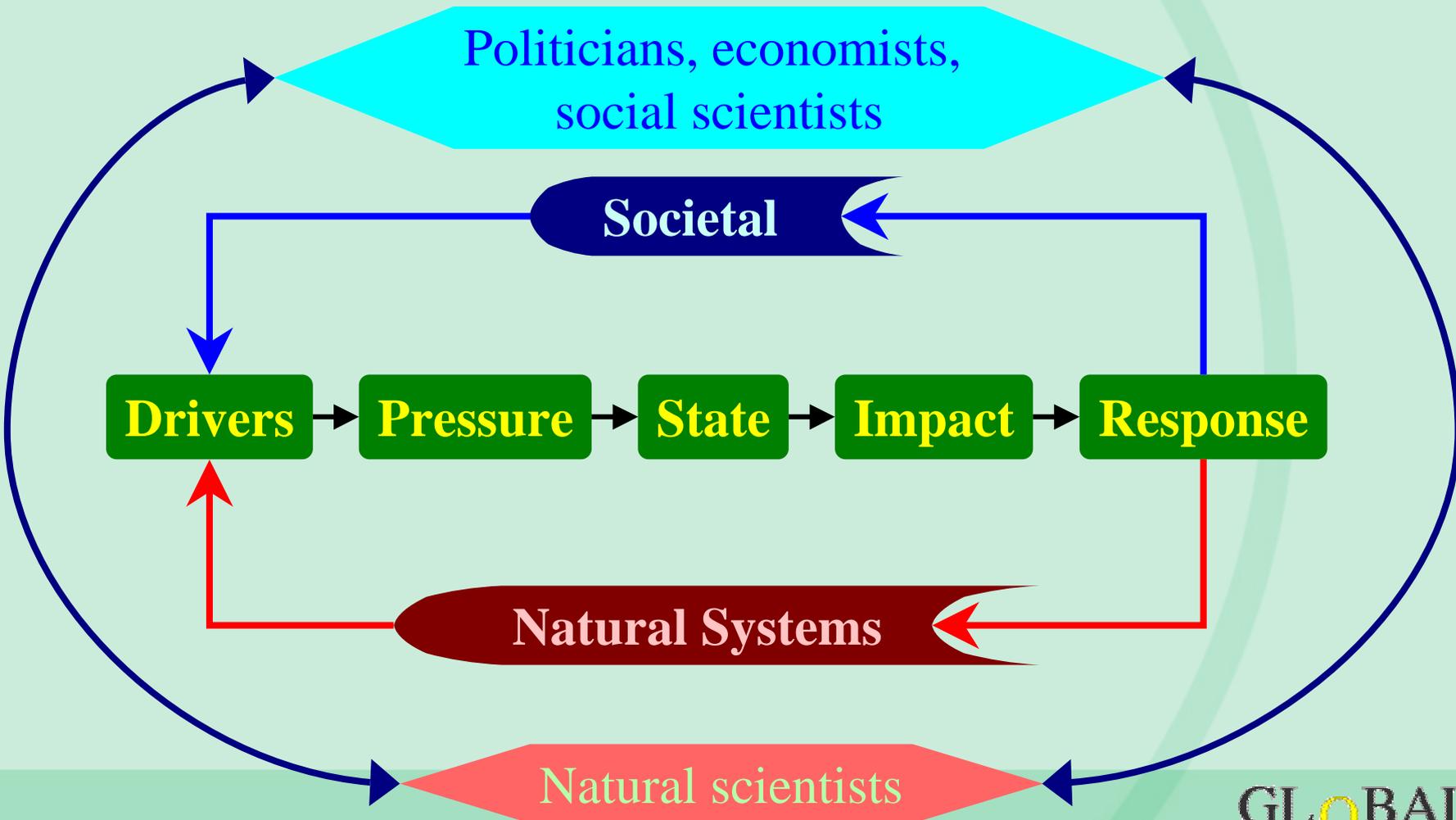
# IGBP Vision and Goal

The Vision of IGBP is to provide scientific knowledge to improve the sustainability of the living Earth.

- IGBP studies the interactions between biological, chemical and physical processes and human systems
- IGBP collaborates with other programmes to develop and impart the understanding necessary to respond to global change



# Sustainable Development Requires Sustained Dialogue





**Thank you**