

# Earth Observation and Global Change

## *CSIS Space Initiatives Program*

Vincent Sabathier      October 25, 2007



## Phase I (Four Months)

- Build bi-partisan working group including
  - The user community
  - The science community
  - The provider community
  - The USG (Executive & legislative)
- 3 working group meetings
  - Identify the current value *Today*
  - The future of EO *Late November*
  - How to get there *Mid December*
- A white paper framing the issue



## Next Phases

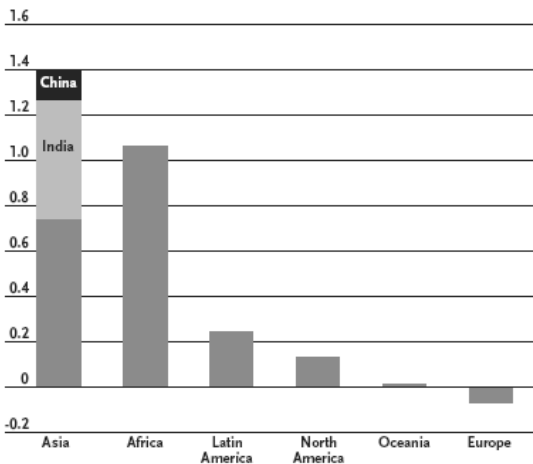
- Phase II
  - Four months
  - White paper with recommendations vetted within the working group
- Phase III
  - One year
  - Advocate for EO through the transition period



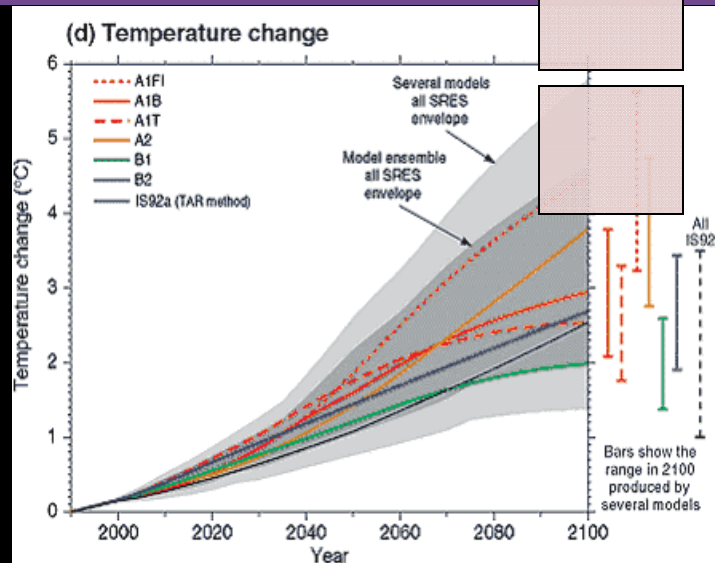
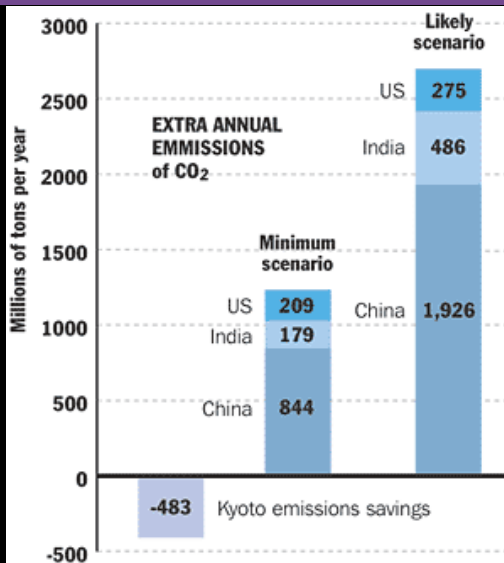
# Global Change

Projected Population Change by Region, 2005–2050

Population increase/decrease in billions



Source: C. Haub, 2005 World Population Data Sheet (2005).



- Demographic growth
- Economic growth
  - More emissions
  - More energy, water needed
  - More population migration

**What is the impact ?**

- Global warming
  - More droughts ?
  - Desertification ?
  - More fires ?
  - More natural disasters

# Global Problems, Global Solutions

*EO is the global data collection system that should allow us to understand, predict, forestall, mitigate and remedy the impacts of global change*

- Societal Values (D. Skole)
- National Security Value
- Foreign Policy Value
- Economic Value (J. Hillery)

