



**First German-Brazilian Conference on Research for  
Sustainability**



# **“Science for Sustainability: Challenges”**

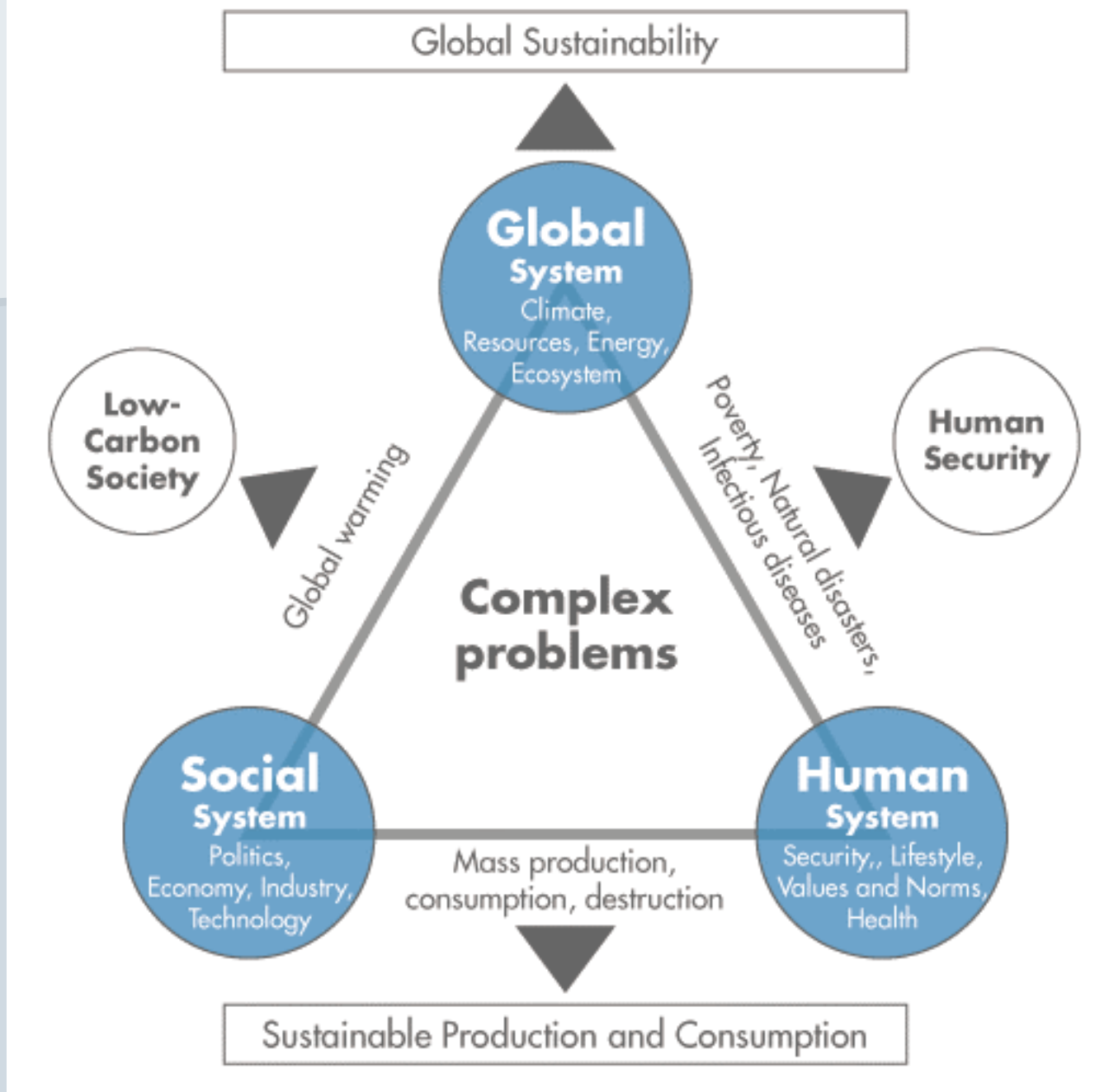


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# Sustainability and its definitions

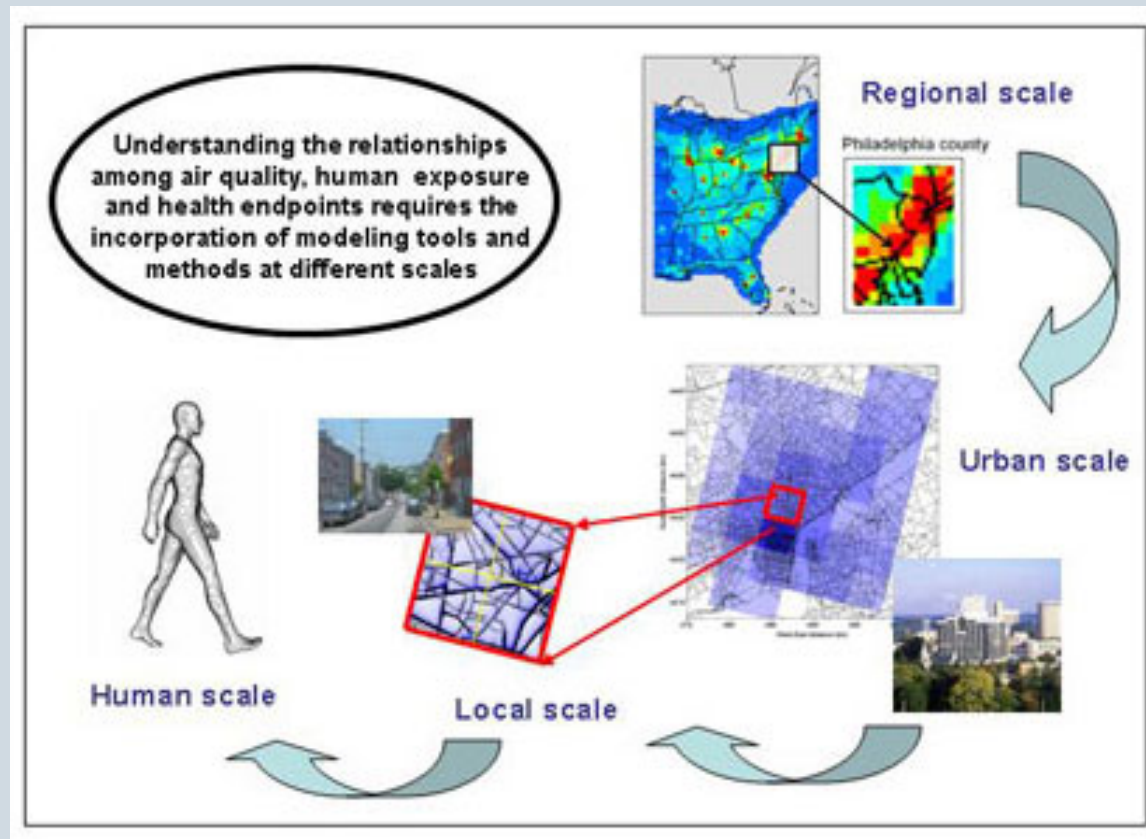
- An attempt to link environment to economic development
- Conservation of limited natural resources
- Capacity of the environment absorb the impacts of human activities
- Triangular concepts: three pillar models (economy, the environment and the society), the triple bottom-line (People, Planet and Profit) or P3 (People, Prosperity and the Planet)
- Global initiatives in science for sustainability: are those appropriate for all countries and regions around the world?



Source: The Integrated Research System for Sustainability Science (IR3S)

# Challenges

- Integrated approaches assuming different magnitudes of scales (of time, space, and function), multiple balances (dynamics) and multiple actors (individuals, government, economic sectors).



# Challenges

- Coordinating efforts within science and technology to address our understanding of human and natural systems:
  - Adaptiveness, vulnerability and resilience in complex society-environment interactions
  - Expertise of many different disciplines, professions and communities
- Development of theoretical and practical frameworks for the effective application of sustainability.

# Challenges

- Development of strategies for enhancing the resilience of local institutions and communities faced with global/local environment change;
- More dialogue between society, scientists and decision makers;
- Technological interventions: research and finance;
- Capacity building in the field of science and technology for sustainability (training and education).

# Initiative on Sustainability in Brazilian Amazon state of Pará

- UEPA (State of Pará University) has initiated a regional initiative to develop and conduct post-graduate diploma on the issue of sustainability.
- Need of appropriate sustainable solutions given the current conditions: land conflicts, deforestation, population growth, industrial activities, environmental degradation

# Thank you!

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