

What Information Should Socio-economic Scenarios Provide?

John P. Weyant
Stanford University

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What Information Should Socio-economic Scenarios Provide?

- Population
- Economic Output
 - “Special Sectors?”, e.g. energy, agriculture, water, land, etc. etc.
 - Wither the Kuznet Curve?
- Human Capital
- Resource Availabilities
- Technology
- Policies (Including “none)
- Institutions

Resilience May be Key

(Here from a CC/CC analysis perspective)

- Adaptive Capacity
 - Measure of Ability to Adapt
 - Has institutional, economic, human capital etc., dimensions.
- Mitigative Capacity
 - Measure of Ability Mitigation
 - Has institutional, economic, human capital etc., dimensions.

The End

Uses Of Integrated Assessment Models

Deterministic Models

Deterministic Policy Optimization Models

- Compute Optimal Carbon Taxes, Control Rates, etc.
- Calculate Costs of Meeting Emission/ Concentration/Climate/Impact Targets

Deterministic Policy Evaluation Models

- Insure Consistency in Assumptions
- Assess Interactions and Feedbacks
- Identify Critical Gaps in Research
- Project Specific Impacts

Decision Making

Under Uncertainty Models

Stochastic Policy Optimization Models

- Assess Optimal Policies Under Uncertainty
- Compute Value of Information/Research

Stochastic Policy Evaluation Models

- Compute Probabilities of Cost/Benefits of Climate Policies
- Compute Probabilities of Meeting Targets

Cost/Benefit Modeling Approach:

Balancing the Costs of Controlling Carbon Emissions Against the Costs of the Climate impacts They Cause

