

# One idea for a coordinated exercise design

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Uncertainty Analysis in Integrated  
Assessment Models, Snowmass, CO

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# Explore uncertainties in reference (no-policy futures)

## Economic uncertainties

E.g.,

- Economic growth (labor productivity)
- AEEI
- Fossil availability
- Renewables resource
- Technology costs
- Population growth

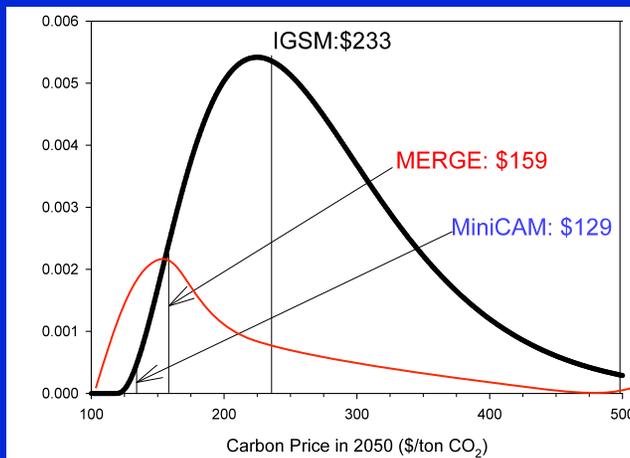
## Physical uncertainties

E.g.,

- Climate sensitivity
- Carbon uptake
- Aerosol forcing
- CO2 fertilization
- Thresholds?
- Ecosystems?

# Explore uncertainty implications for policy benefits and costs

## Uncertainty about costs



MERGE pdf made-up for illustration

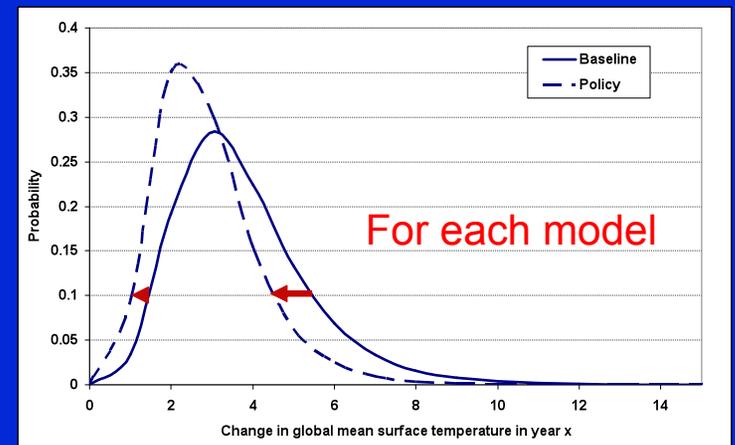
Others:

GDP, consumption, PE,  
FE, land-use,  
distributional effects

## Policy certainty

Fix global emissions pathway (at least to 2050, no banking)

## Uncertainty about benefits



Others:

concentrations, RF,  
SLR, extreme events,  
monetized damages