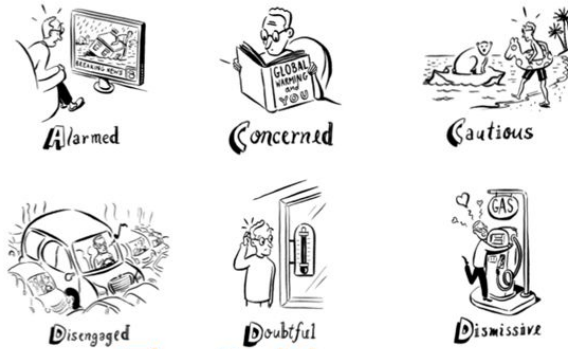


Transition to a sustainable society

The *ultimate* coordination problem



The 6 citizens



Tech



Oil/Gas

diverse set of actors!
ultimate “wicked problem”

Rittel and Webber 1973



Banks/Finance



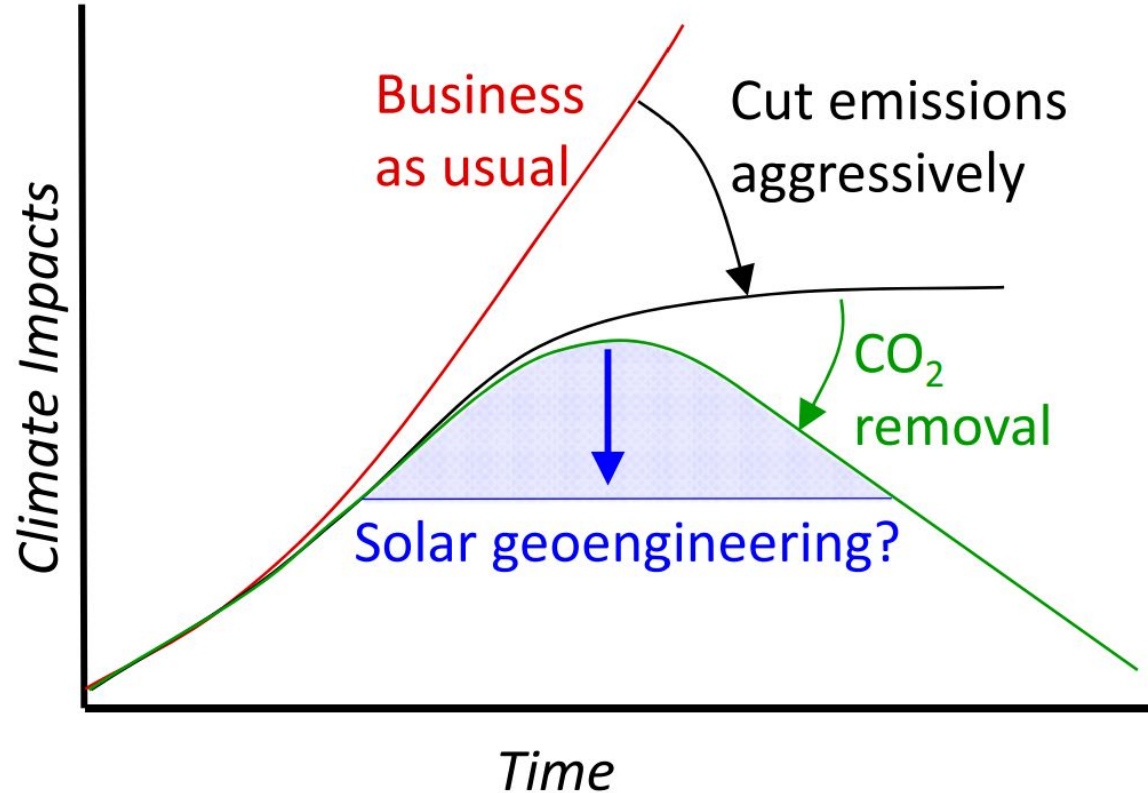
Insurance



World Governments



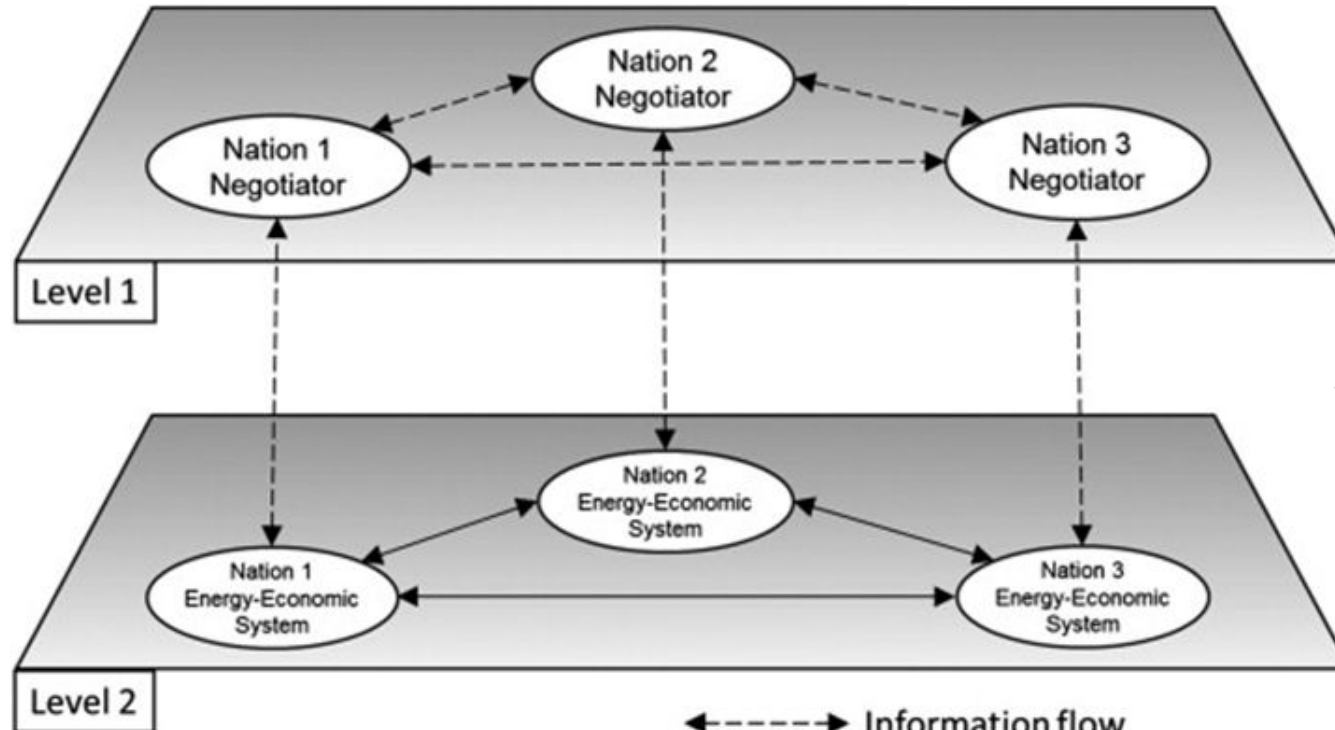
3 concrete socio-technological goals



Which multi-player game matters?

Prisoners of the Wrong Dilemma: Why Distributive Conflict, Not Collective Action, Characterizes the Politics of Climate Change

Michaël Aklin and Matto Mildenberger*



Putnam, (1988)

What is a coordination mechanism?

Game theory of emission reduction policy

- 28 years ago:

SELF-ENFORCING INTERNATIONAL ENVIRONMENTAL AGREEMENTS

By SCOTT BARRETT

Faculty of Economics, London Business School, Sussex Place, Regent's Park,

- 9 years ago:

Cap, Insure & Compensate: Domestic Policies and the Ratification of International Environmental Agreements

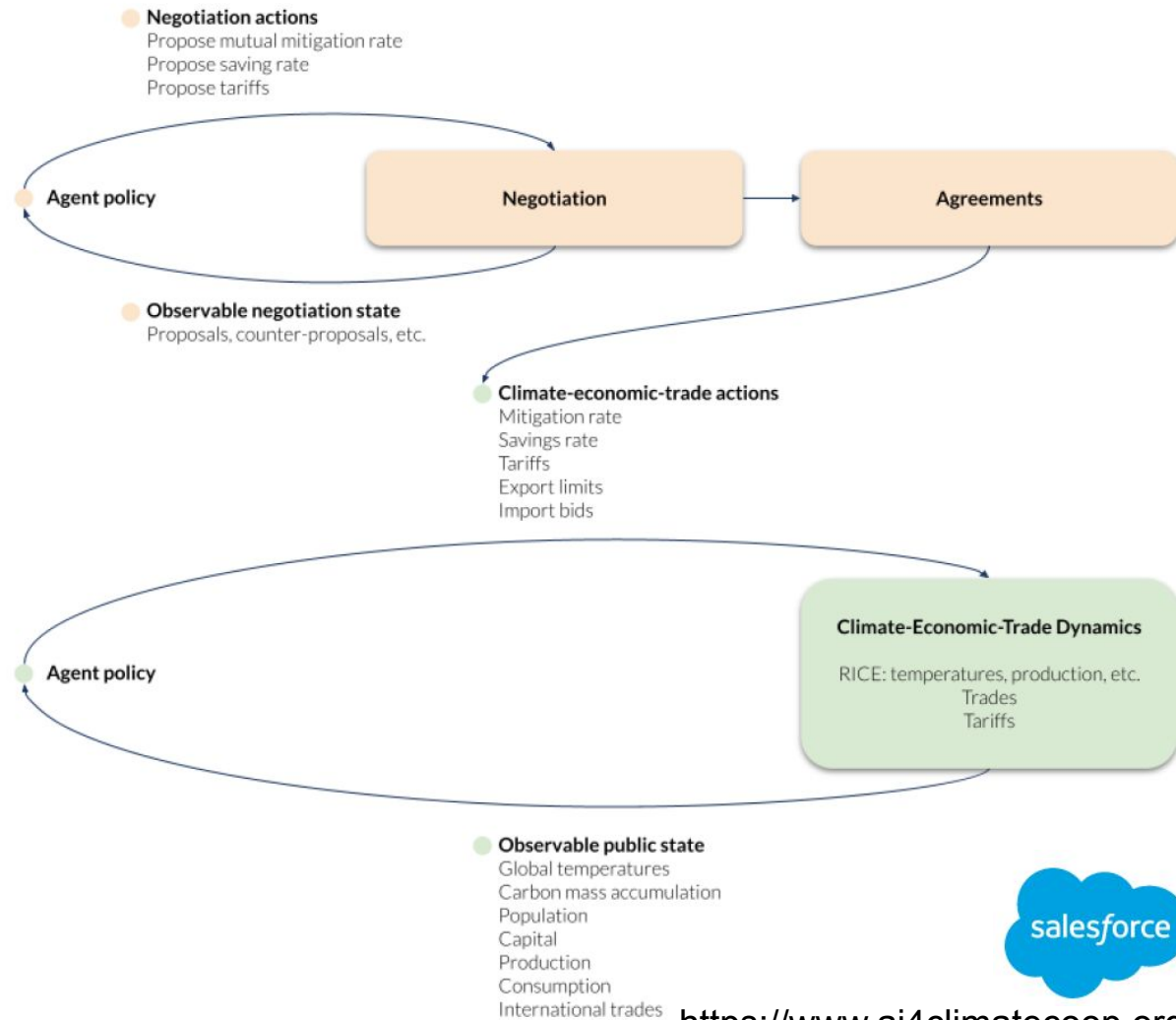
Jobst Heitzig

Potsdam Institute for Climate Impact Research, PO Box 601203, 14412 Potsdam, Germany,
heitzig@pik-potsdam.de

Today



Multi-region simulation



Issues

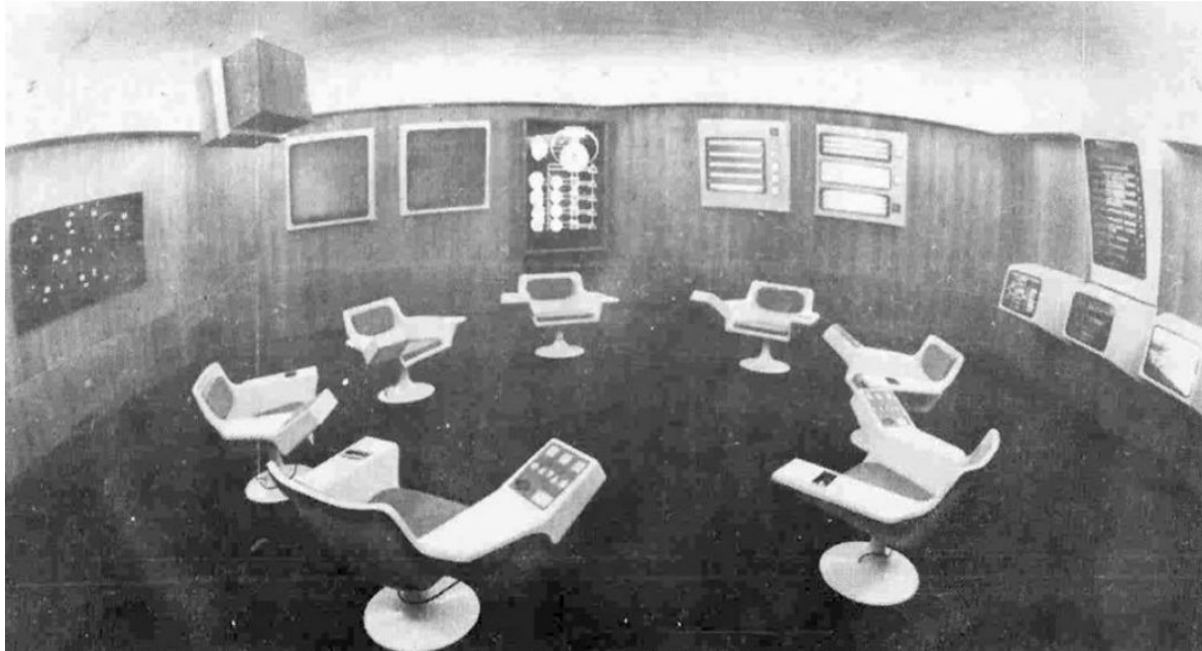
- Validity of climate-economic model (e.g. form of damage function)
- Is deep RL obviously wrong or wrong but useful?
- How to train AI models of countries?
 - E.g. does parameter sharing make any sense?
- ...

Other applications:

- [Globalcarbonreward.org](https://globalcarbonreward.org) (carbon currency; see novel Ministry for the Future)

Project Cybersyn (1971-1973)

- production data sent from 500 factories via telex
- prediction software using Bayesian filtering



[IBM 360/50](#)

