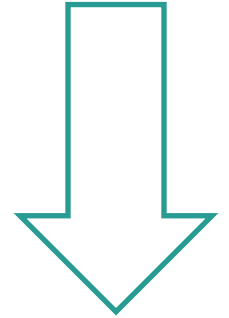


Center for Carbon Removal



Forests and opportunities for CO₂ Capture and Storage
February 8, 2017

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Forests are a great microcosm for negative emissions

1. We must think systems, not technologies, to understand the challenges and opportunities around negative emissions
2. Seen as a system, negative emissions approaches challenge the conventional wisdom on many familiar climate solutions
3. The reward for increased action on negative emissions today is enormous

Negative emissions describes “systems” not “technologies” for climate action

Forests as avoided emissions



vs.

Forests as enhanced carbon sinks



Negative emissions forest systems illustrate the opportunity for “deep decarbonization+”

“Mitigation is a human intervention to reduce the sources or enhance the sinks of greenhouse gases”

--IPCC AR5 WG3 Summary for Policymakers p.4

Forests offer a good analogy:

RED is to REDD+, as mitigation is to negative emissions

Negative emissions forest systems challenge long-standing conceptions about climate mitigation solutions

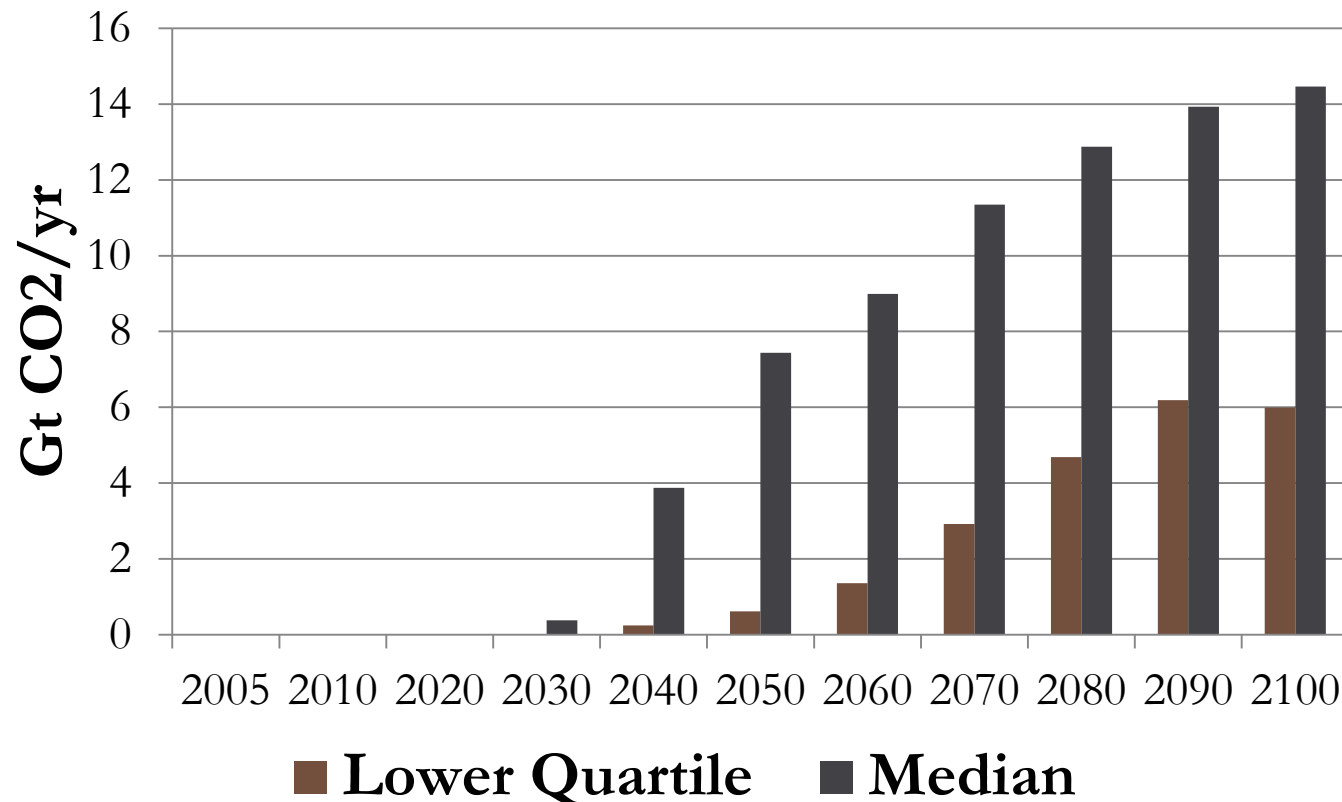
3 examples:

- Forests conservation v. restoration & expansion
- “Carbon capture, utilization, and storage”
- Good biofuels?



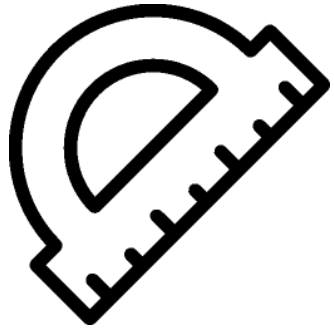
Systems thinking helps highlight the importance of a portfolio approach to negative emissions

Negative Emissions Deployments Across 76 RCP 2.6 Scenarios in IPCC AR5 Database



Ecosystems and soils have lost on the order of several hundred Gt CO₂e since pre-industrial times

Developing negative emissions systems successful demands more action from the climate community today



Accounting protocols



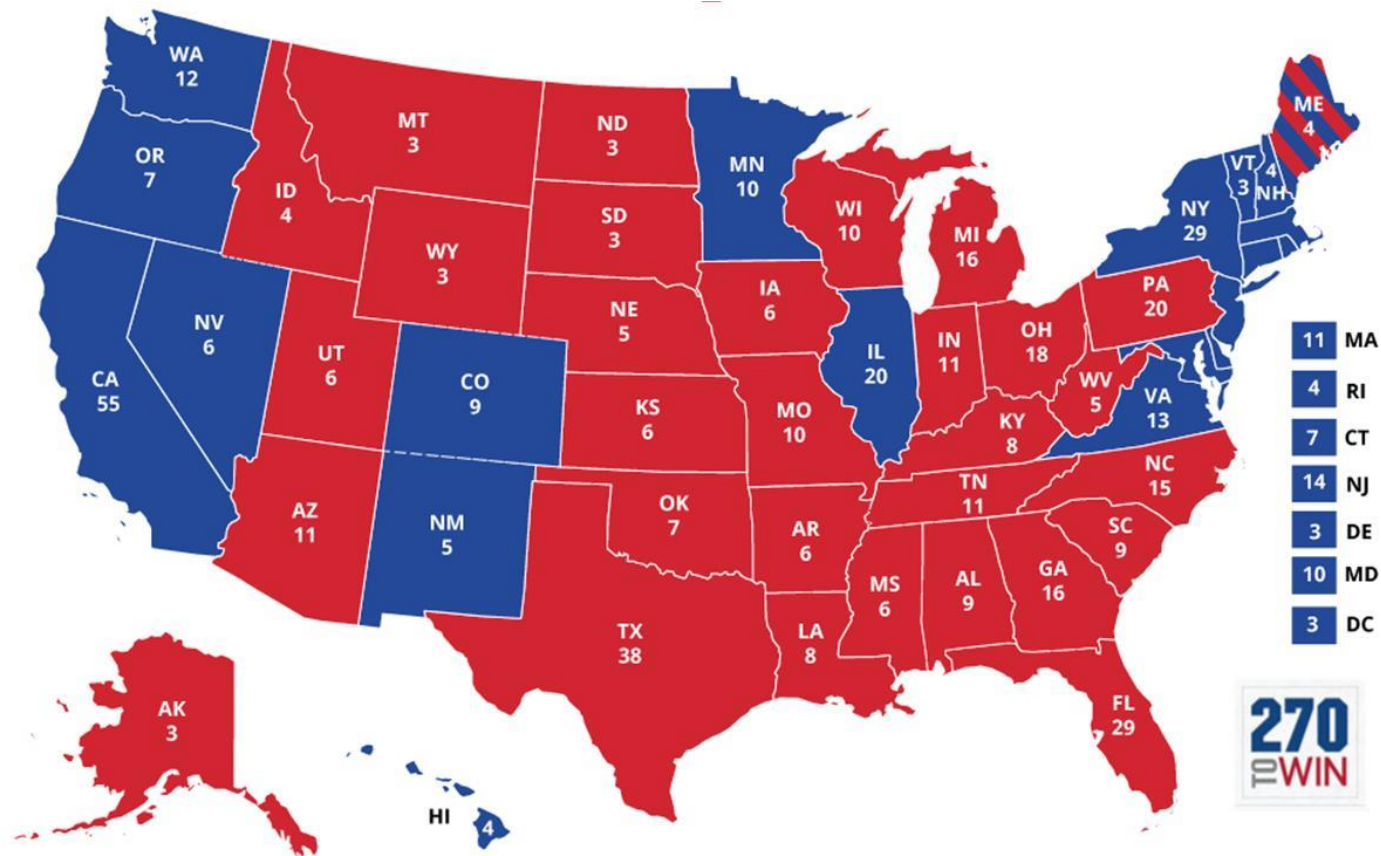
Technology innovation



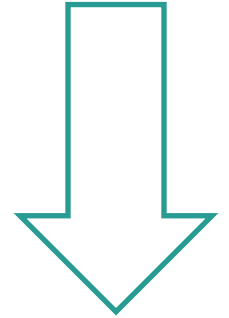
Clear, fair, and
consistent regulations
and markets

The rewards for getting negative emissions right is enormous

Negative emissions is not yet a partisan/ideological climate solution



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