AMDEG: Assessing the Mitigation Deterrence Effects of GGRs

RCUK programme Greenhouse Gas Removal from the Atmosphere

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£300k

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MANY (e.g. IPCC) ASSUME GGRs WILL SUPPLEMENT MITIGATION ...

... IS THAT A REASONABLE ASSUMPTION?

Interactions
Some deter or delay!

Hard to study, but likely
E.g. CCS

Physical, Economic ->
Cultural & Political

Individuals -> Collective
Decisions -> Emergent

Markusson et al (2017); McLaren (2016)
QUESTION, GOALS, WPs

Under what conditions can GGR coexist with, and complement, other mitigation strategies?

1. Identify and characterise
2. Help counter
3. Re-conceptualise
4. Engage!

**WP1 Interdisciplinary framework (m1-6)**
- Task 1.A Review climate pathways
- Task 1.B Review deterrence processes
- Task 1.B Relate to CPEST theory

**WP2 Characterising technologies (m6-22)**
- Task 2.A Map past evolution
- Task 2.B Develop scenarios
- Task 2.C Model impacts

**WP3 Stakeholder engagement (m6-22)**
- Task 3.A Consult programme partners
- Task 3.B Test scenarios

**WP4 Synthesis (m22-27)**
- Task 4.A Identify practical options
- Task 4.B Revise analytical framework
COLLABORATION?!

Selected GGRs
- BECCS
- Air capture
- Soil carbon enhancement
- Enhanced weathering

Societal responses
- Cultural Political Economy
- (Jessop, Tyfield)

- Interviews and focus groups
- Feedback on scenarios
- Sharing possible causes of deterrence and synergies
REFERENCES
