

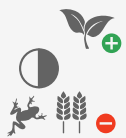
A. Afforestation & reforestation

Tech readiness

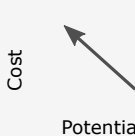
Ready for large-scale deployment



Side-effects



Trend after 2050



Permanence

Reversible



B. Bioenergy carbon capture & storage

Tech readiness

Only 1 full scale demonstration



Side-effects



Trend after 2050



Permanence

Stable



C. Biochar

Tech readiness

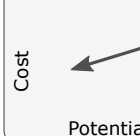
Limited pyrolysis capacity



Side-effects

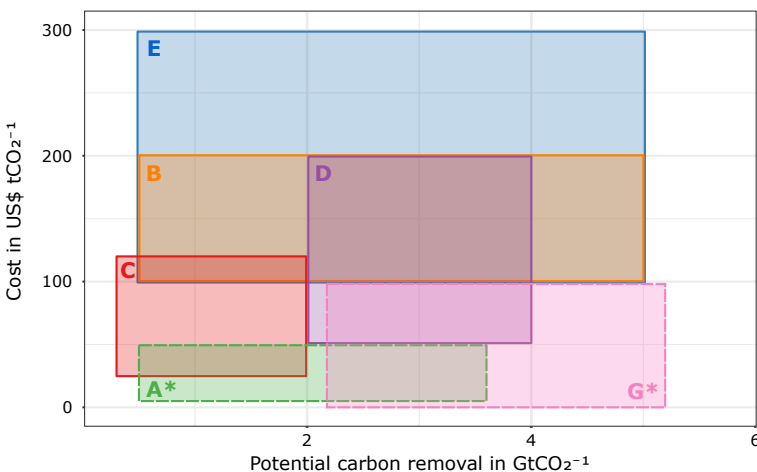


Trend after 2050



Permanence

Stable



E. Direct air capture

Tech readiness

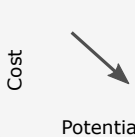
Deployed in niche markets



Side-effects



Trend after 2050



Permanence

Stable



F. Ocean fertilisation

Tech readiness

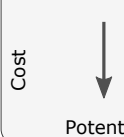
10s of small demonstrations



Side-effects



Trend after 2050



Permanence

Stable but uncertain



G. Soil carbon sequestration

Tech readiness

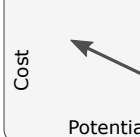
Ready for large-scale deployment



Side-effects



Trend after 2050



Permanence

Reversible



Side-effects

(+ positive, - risk of negative)



Air pollution



Albedo



Biodiversity



Ecosystem changes



Food security



Ground/water pollution



Mining and extraction



Soil quality



Trace GHGs