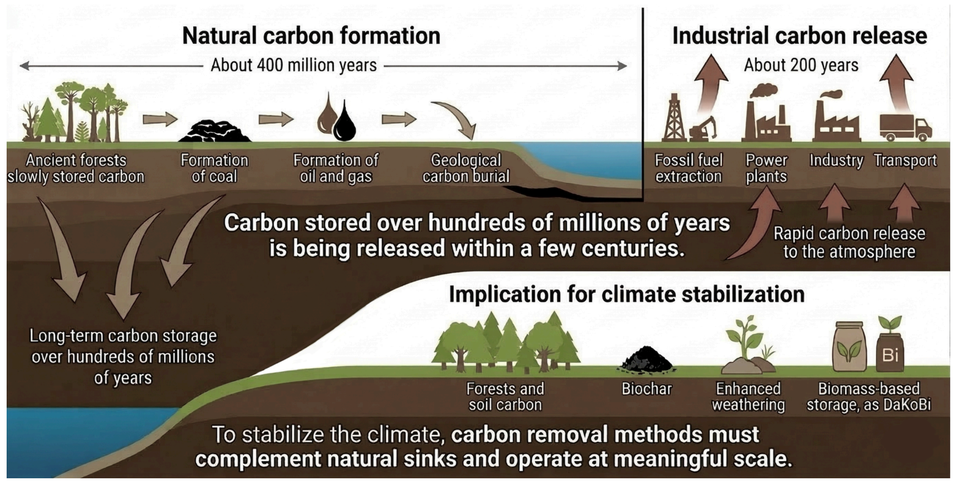
Poster 75: Fast, easy and long-term Carbon Removals

DaKoBi – Low-Energy Deep Soil Carbon Stabilization

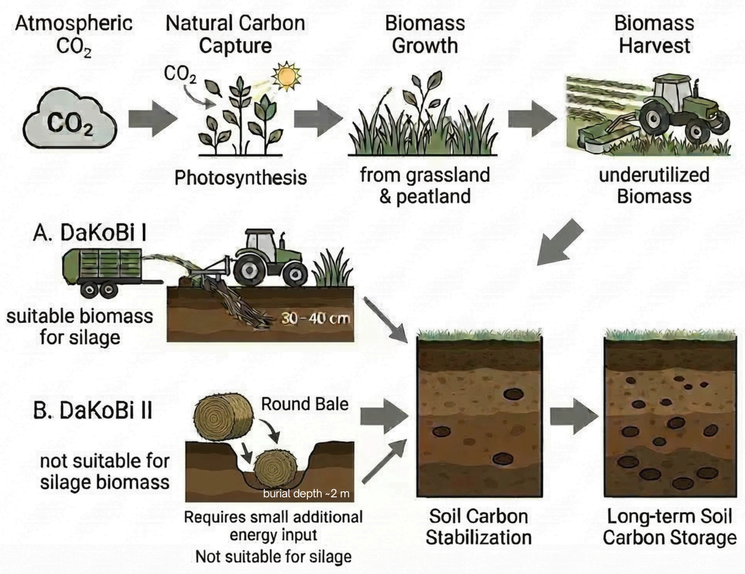
Utilizing residual landscape biomass for scalable carbon removal in agricultural systems

Climate Context

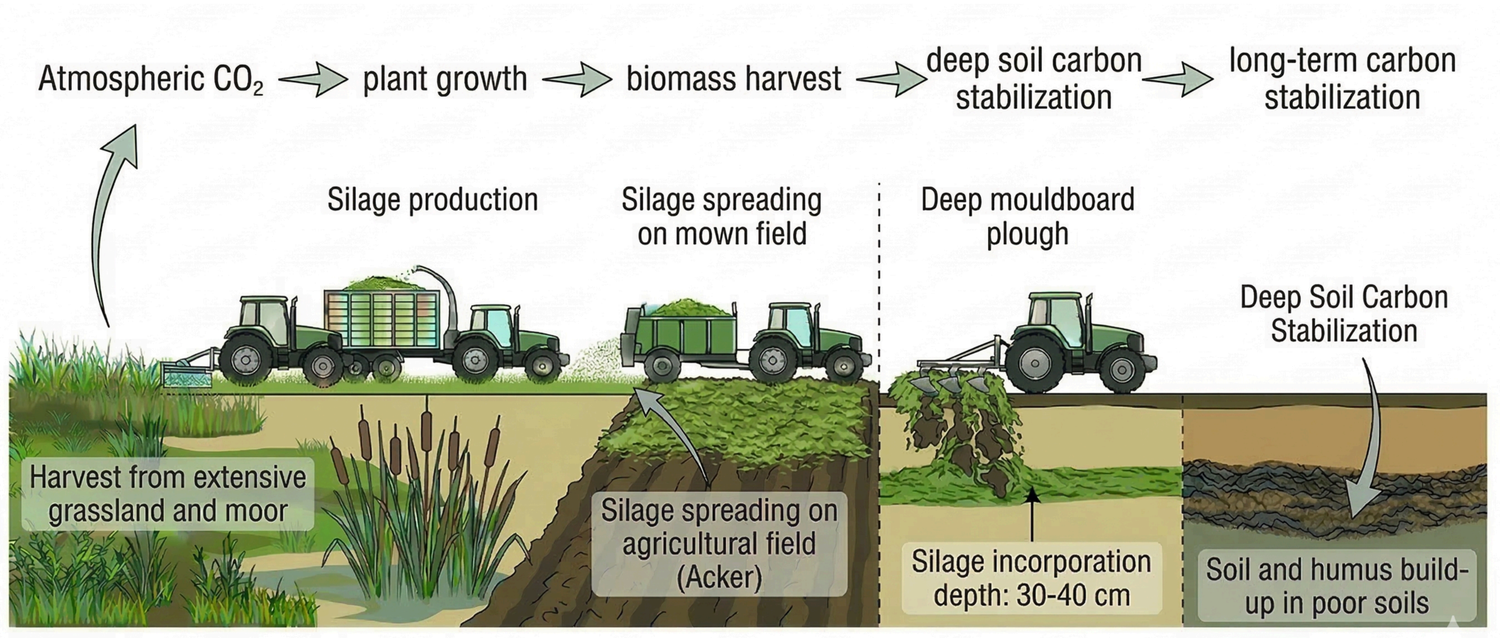


Concept

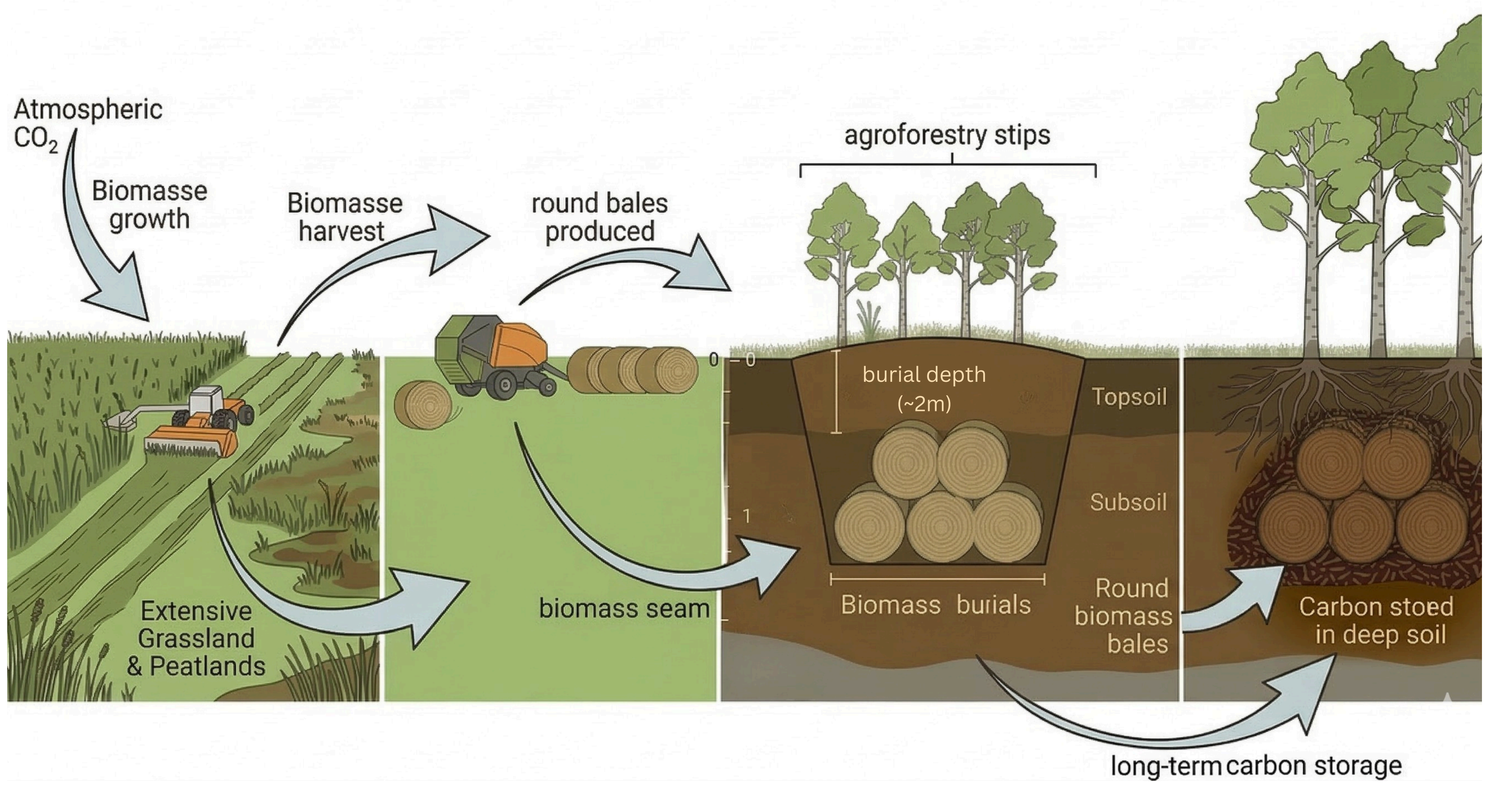
Bridging soil carbon farming and industrial carbon removal.
Conceptually related to biomass-based CDR (BIRCS).



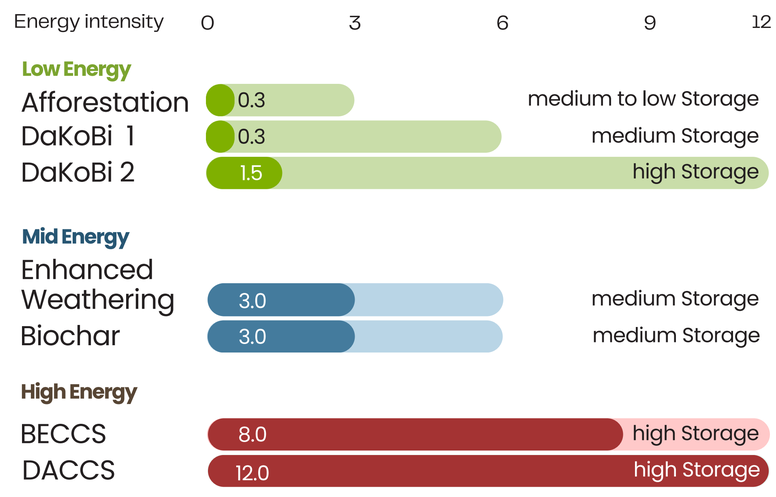
Method I – Deep Incorporation of Silage



Method II – Biomass Seams



Comparison with other Carbon Removal Approaches



Indicative energy demand compared with other carbon removal pathways.
DaKoBi approaches operate within the low-energy range of biomass-based CDR.

Potential co-benefits:
improved soil structure → increased water retention → utilization of underused landscape biomass → integration with agroforestry systems

Scientific Status

DaKoBi is a conceptual carbon sequestration approach currently under scientific evaluation .
The working paper provides the basis for pilot projects, validation studies and the exploration of potential regulatory pathways.
Letters of support from initial partners have been received, and further collaboration is sought with research institutions, MRV experts, pilot farms and funding partners.

more information

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EUROPEAN CARBON FARMING SUMMIT

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