

# Developing a data and modelling framework for assessing greenhouse gas mitigation strategies

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# Systematic review at field and farm level

General category	Mitigation practice	Potential GHG reduction
Feeding optimization	Forage quality, dietary supplements	CH <sub>4</sub> , N <sub>2</sub> O
Rumen manipulation	Biological control, vaccination	CH <sub>4</sub>
Manure processing	Slurry treatment, anaerobic digestion, cover (tanks and stores)	CH <sub>4</sub> , N <sub>2</sub> O
Cover crops	Use of cover crops	C seq.*, N <sub>2</sub> O
Crop rotation	Diversified crop rotation	C seq., N <sub>2</sub> O
Organic amendment	Organic fertilizer, biochar, crop residue	C seq., N <sub>2</sub> O
Reduced tillage	Zero-, no- and low-tillage	C seq.
Enhanced-efficiency fertiliser	Inhibitor (nitrification and urease), slow-release fertilizer	N <sub>2</sub> O
Lime amendment	Lime amendment	N <sub>2</sub> O

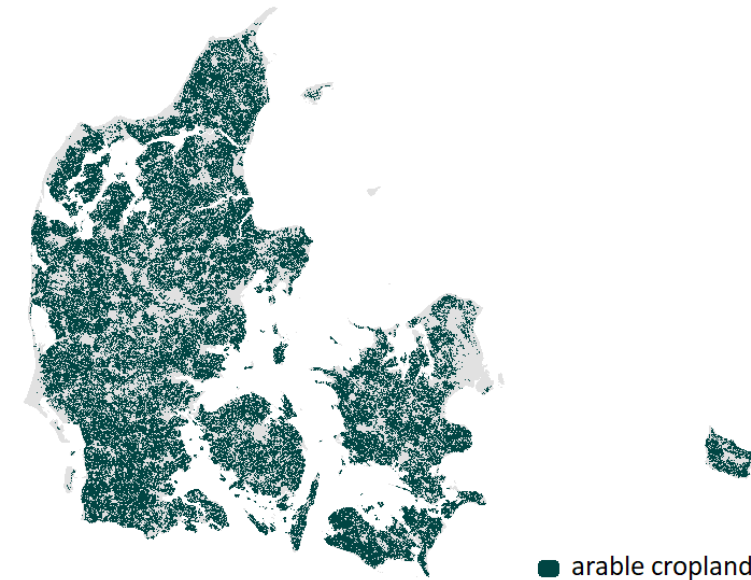
\*C seq.: Carbon sequestration

Preliminary GHG mitigation strategies relevant for Denmark

# Biogeochemical models at regional level

General category	Mitigation practice
Feeding optimization	Forage quality, dietary supplements
Rumen manipulation	Biological control, vaccination
Manure processing	Slurry treatment, anaerobic digestion, cover (tanks and stores)
Cover crops	Use of cover crops
Crop rotation	Diversified crop rotation
Organic amendment	Organic fertilizer, biochar, crop residue
Reduced tillage	Zero-, no- and low-tillage
Enhanced-efficiency fertiliser	Inhibitor (nitrification and urease), slow-release fertilizer
Lime amendment	Lime amendment

\*C seq.: Carbon sequestration



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