Greenhouse Gas Determination in West Africa's Agricultural Landscapes "GreenGaDe"

WASCAL
West African Science Service Centre on Climate Change and Adapted Land Use

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Research framework

GreenGaDe implemented under the Priority Research Theme 4 in WASCAL WRAP 2.0 (Sustainable Agriculture/Climate Smart Landscapes Nexus)
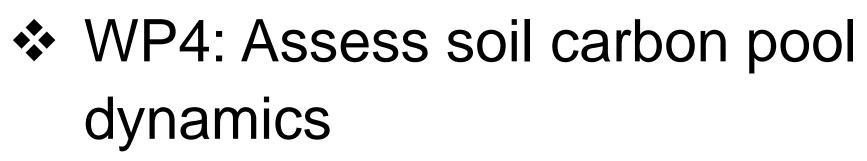
Goals

❖ Provide baseline data and predict the evolution of greenhouse gas (GHG) emissions and carbon stocks in the agricultural sector in West Africa
❖ Evaluate GHG emissions and carbon storage dynamics related to the agricultural sector
❖ Guide national and regional climate change adaptation policies and strategies in West Africa
❖ Develop strategies to accelerate the implementation of climate-smart agriculture approaches in smallholders farmers
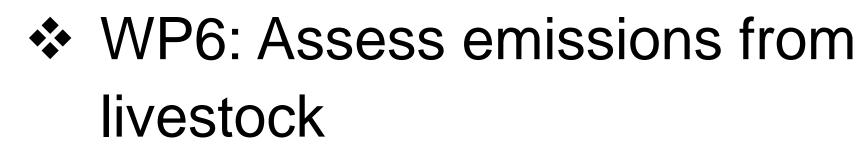
Work Packages

❖ WP1: Assess carbon pool dynamics in the tree layer

❖ WP2: Assess carbon pool dynamics in the grass layer and in the soil

❖ WP3: Assess carbon emission and fixation of plants

❖ WP4: Assess soil carbon pool dynamics

❖ WP5: Assess GHG emissions related to agricultural practices

❖ WP6: Assess emissions from livestock

❖ WP7: Investigating farmers' agricultural practices in relation to GHG emissions

❖ WP8: Synthetic analysis of GHG dynamics

❖ WP9: Spatial modelling of GHG and carbon dynamics

GreenGaDe
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