



AgMIP Demand-Scoping Study in Sub-Saharan Africa

Project Description

Project partners will work with governmental stakeholders to co-develop a framework for applying information from climate, crop, and economic models to inform various policy instruments, such as National Adaptation Plans (NAPs), National Agricultural Investment Plans (NAIPs), Nationally Determined Contributions (NDCs), and Biennial Transparency Reports (BTRs). The project will also help build capacity in governments to advance evidence-based investments in mitigation and adaptation. While the project will retain a focus on Ghana and Senegal, the outputs will discuss how the findings apply to countries across sub-Saharan Africa and beyond.

The project partners include members of the Agricultural Model Intercomparison and Improvement Project (AgMIP) team – including researchers from the University of Ghana, the Initiative Prospective Agricole et Rural (IPAR) in Senegal, Alliance Bioversity International-CIAT, the International Livestock Research Institute, Oregon State University, and Columbia University. The AgMIP team is partnering with Synergos and the International Food Policy Research Institute.

The project team will assess the demand by decision- and policy-makers for science-based evidence that can support adaptation and mitigation planning and action in agriculture in Ghana and Senegal through analysis of planning and policy documents, interviews with stakeholders, and a large consultative workshop, held in Ghana. The team will also pilot novel approaches in regional-to-national scale modeling, with findings synthesized into policy briefs to demonstrate how they may support climate-smart decision-making.

AgMIP is a global network of climate, crop, livestock, economic and nutrition modelers and policy experts. AgMIP works collaboratively with stakeholders to develop model-based evidence that informs agricultural decision-making, particularly around climate adaptation and mitigation.

Activities and Objectives

Demand Scoping Analysis

Identify and characterize demand by decision- and policy-makers for science-based information and improved data that can support planning, policies, and action related to adaptation and mitigation in the agriculture sector, with a particular focus on national planning and policy processes.

Service Provider Mapping

Map existing service providers and users/decision-makers who provide evidence-based information to national governments and assess their roles and relative strengths.

Policy Briefs

Support planning and policy processes in Ghana and Senegal by integrating national and regional modeling products to meet the needs of stakeholders working on climate change and agriculture.

Key Outputs

Journal paper that presents a framework for applying science-based information identified in the demand assessment to inform planning, policies, and climate action in the agricultural sector, considering current availability of information and approaches to addressing evidence gaps.

Report on mapping service providers and how users/decision-makers use or aim to use model-based evidence in decision-making for climate action in agriculture.

Policy briefs detailing how integrated regional-to-national scale modeling can support planning and policy making in Ghana and Senegal, with a dual focus on climate adaptation and mitigation in agriculture.