



# AgMIP

# STRATEGIC PLAN

2025-2030



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## Part I: Introduction

Sustaining and improving the performance of agricultural systems is essential to support a growing global population in the face of a changing and variable climate. Data, computational methods and quantitative models are the foundation of the science underpinning sustainable agricultural systems. Founded in 2010 by an international group of agricultural modelers, **the Agricultural Model Intercomparison, Improvement, and Integration Project (AgMIP)** has grown to encompass a global community of scientists, researchers, practitioners, policy-makers and stakeholders working to improve food system<sup>1</sup> data and models and to advance their use to support decision making from farm to national to global scales. AgMIP now mobilizes climate, agriculture, economics and trade, health and nutrition security, and humanitarian aid expertise to advance next-generation tools and decision support systems to address current and future challenges to food systems that deliver reliable and nutritious foods.

This strategic plan provides the basis by which the Agricultural Model Intercomparison and Improvement Project will conduct its program for the period of 2025-2030<sup>2</sup>. This includes its mission, objectives, and key areas of activity, as well as its structure, governance, and funding strategy. The goal is to incorporate key drivers affecting food security so as to improve coordinated global, national, and regional assessments. AgMIP addresses the requirements for innovative food system models of the future – including improved simulation of agricultural systems, climate change mitigation, and adaptations important to provision of healthy and sustainable food in both developed and developing regions.

### Overview of AgMIP

AgMIP research is comprised of three pillars: Modeling for Healthy and Sustainable Food Systems, Coordinated Global, National, and Regional Assessments, and NextGen Knowledge Products, Improved Models, and Data (Figure 1).

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<sup>1</sup> Agricultural systems are a collection of components that has as its overall purpose the production of crops and raising livestock to produce food, fiber, and energy from the Earth's natural resources (Jones et al., 2017). Food systems are the sum of actors and interactions along the food value chain—from input supply and production of crops, livestock, fish, and other agricultural commodities to transportation, processing, retailing, wholesaling, and preparation of foods to consumption and disposal (IFPRI, 2024).

<sup>2</sup> Subject to annual review.

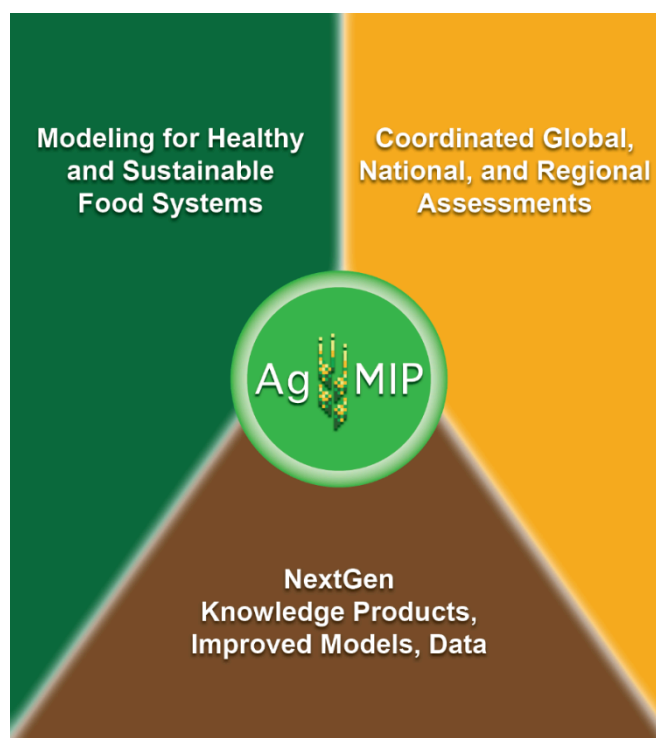


Figure 1. AgMIP's Three Pillars

Central to all AgMIP activities are models of food systems, inclusive of crops, grasslands, livestock, and economics. The activities include intercomparison of multiple models; evaluation and model improvement; development of improved methodologies for integrated assessments of impacts and adaptation, including in response to stakeholder needs and perspectives; and the performance of integrated assessments at regional, national, and global scales.

The AgMIP community collaborates in the comparison and improvement of agricultural models and develops ways in which they can be used to evaluate likely changes in crop and livestock production and economic conditions under current and future climate, farming, and societal conditions. Analyses of the agricultural impacts of climate variability and climate change, and of mitigation and adaptation options require a trans-disciplinary, stakeholder-inclusive effort to consistently link decision contexts with state-of-the-art climate scenarios and agricultural systems models.

AgMIP accomplishes its mission through collaborative scientific research and coordinated assessments, with outcomes including peer-reviewed publications, reports to policymakers, interdisciplinary training on multi-model approaches, web-based information, next-generation tools and decision support systems, and regional and global workshops and conferences. One of AgMIP's aims is to provide a state-of-the-art knowledge platform – a truly global public good – to project future food security under



changing climatic, technological, and societal conditions and to develop, test and report effective adaptation strategies in both developing and developed countries.

The community-driven approach has resulted in unprecedented gains by scientists in the advancement of agricultural systems modeling and access to effective methodologies for anticipating likely future scenarios of food availability. AgMIP is dedicated to enabling scientists in climate-vulnerable regions, especially in developing countries, to participate in the research processes by which such gains are made.

AgMIP is an international partnership program and implemented collaboratively with a suite of insightful and committed donors; as well as global, national, and regional partner programs and members.

### **AgMIP's Role in Ensuring Future Food Security**

Agriculture is one of the important sectors most vulnerable to the impacts of climate change. This is due both to direct impacts on agricultural productivity and to indirect impacts such as changes in water availability, pests and diseases, and land use. Climate change is projected to reduce global agricultural production, shift nutritional characteristics of key staple crops, and increase its annual variation, leading to an intensification of the risks of hunger and malnutrition. The 6th Assessment of the Intergovernmental Panel on Climate Change (IPCC) confirmed that climate change impacts are negatively affecting agriculture, increasingly hindering efforts to meet human needs and that, in particular, climate-related extremes have affected the productivity of all agricultural and fishery sectors, with negative consequences for food security and livelihoods (IPCC, 2023).

This has significant implications for both food security and economic growth in many developing countries, where the majority of the poor are projected to continue to live in rural areas until 2040. Most depend on agriculture for their livelihoods, directly or indirectly. Rural farming communities are directly dependent on weather conditions for cultivation, so their capacity to manage climate-related risks is a high priority. There is an expanding evidence base underpinning the need for strengthened climate risk management and climate resilience in the face of increasing impacts of climate variability on the economic performance and livelihoods of the poor. Climate pressures will lead to shifts in patterns of farm household behavior in response to shocks. Families can find themselves introducing changes in diet preferences and facing more malnutrition and exposure to infectious diseases. These impacts of climate change are not solely projected to affect developing countries; climate change will impact agricultural regions in Europe, North America, South America, and Australia, as well.



Disruptions in major-producing countries will have an impact on world food supplies because of the international trade in agricultural production and could lead to broader food insecurity and conflicts that can have global implications. Negative impacts on agriculture in these areas are also likely to lead to impacts on economic growth and poverty reduction. Recent empirical evidence suggests that compared to growth in other sectors, growth in the agricultural sector generates welfare gains that are much stronger for the poorest parts of the population.

AgMIP is centrally positioned in the critical area of providing innovative analyses utilizing dynamic agricultural models in the context of key decision frameworks of stakeholders, enable developing and developed country researchers and stakeholders improved understanding of the impacts of climate variability and change on their agriculture sectors, to identify appropriate adaptation options to test, and to inform investment decisions. The use of a suite of agricultural models embedded in a state-of-the-art technological system enables identification of probable impacts and interactions regionally and globally, strategic adaptation planning, and evaluation of technology investments. Significantly improved agricultural models also offer the means for testing the interactive implications of different adaptation and mitigation responses and for prioritizing critical areas for new research.



## Part II: Mission, Objectives and Action Areas

### Mission

The mission of AgMIP is to significantly improve and intercompare agricultural models and tools and conduct sustainability assessments of agriculture and food systems, including impacts of climate variability and change and other driving forces on agriculture, food security, and poverty at local to global scales.

To enable this mission, the goal is to create next-generation knowledge and science-based approaches and applications for agricultural and food system modeling worldwide, for decision-makers from regional to global scales.

### Objectives

Specific AgMIP objectives are to:

1. Perform multi-model integrated regional and global assessments of technology and policy options for increasing food security and adapting to current and future climate risks.
2. Improve agricultural models based on their intercomparison and evaluation using high-quality regional and global datasets and best scientific practices, and document improvements for use in integrated assessments.
3. Synthesize knowledge to inform decision-making processes at regional to global scales.
4. Improve the scientific and adaptive capacity in agricultural regions in low-, middle-, and high-income countries.
5. Foster and enhance sustained engagement among scientists and with stakeholders for adaptation, mitigation, risk management, and sustainable development.
6. Connect state-of-the-art climate, crop/pasture/livestock, and agricultural economic model improvements to enable coordinated regional and global assessments of current and future climate impacts.



## Action Areas

Any person or group working on improving understanding of the impacts of climate variability and change on the food system (and vice versa) is welcome to contribute to AgMIP initiatives, either by joining an existing team or creating a new one.

AgMIP Teams cover a broad array of research themes (Figure 2) – from global economics assessments to modeling of ozone to machine learning – as well as encompass all agricultural regions of the world. Each Team has co-leaders who can be contacted by parties interested in joining. Anyone wanting to lead a new theme or region not already covered is encouraged to reach out to the AgMIP Coordination Unit.

Leaders of the AgMIP Research and Regional Teams are members of the AgMIP Leaders Forum, which is convened by the AgMIP Coordination Unit to provide opportunities for sharing research directions, activities, and input to AgMIP workshops. Additionally, each Team keeps updated descriptions of their activities for the AgMIP website and they are provided regular opportunities to meet at the AgMIP workshops.

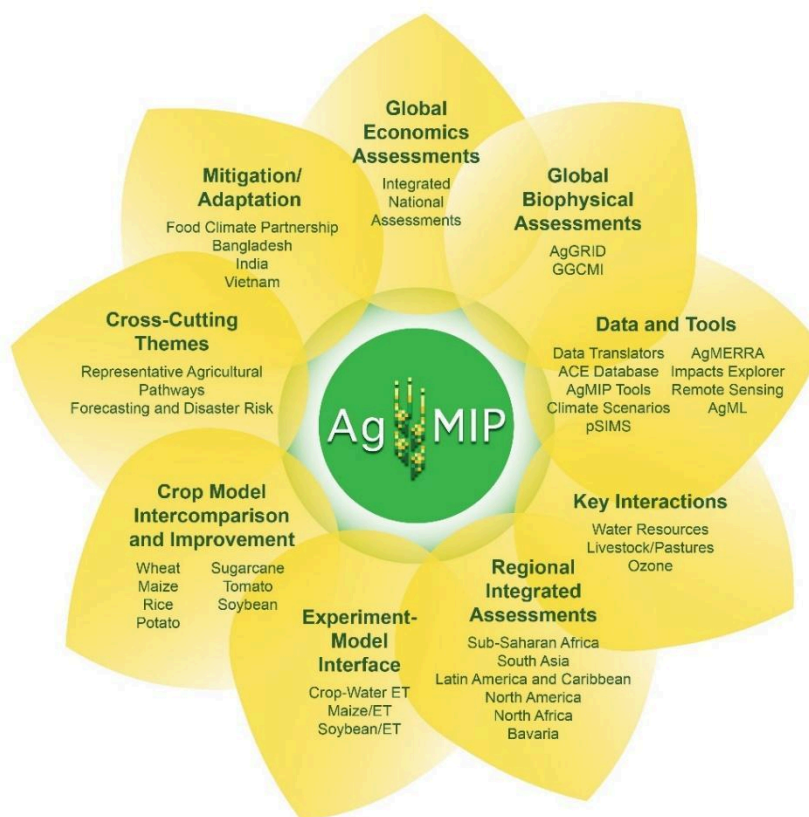


Figure 2. AgMIP Research and Regional Teams





### 1. AgMIP Research Teams

AgMIP Research Teams form a collaborative and interdisciplinary network of scientists dedicated to advancing our understanding of global agricultural systems and their responses to climate change. Comprising experts in specific crop species (e.g., wheat, maize, potato), global gridded crop modeling, economics, pests and diseases, and more, these teams work collectively to develop, assess, and improve agricultural models. By integrating diverse perspectives and data sources, AgMIP Research Teams aim to enhance the accuracy and reliability of agricultural predictions and impact assessments. This collaborative effort plays a crucial role in informing policymakers, stakeholders, and the global community about the potential implications of climate change on food security, guiding the development of resilient and sustainable agricultural practices worldwide.

### 2. AgMIP Regional Teams

AgMIP Regional Teams foster localized insights into the complex interactions between food systems and climate. Composed of experts specializing in the unique challenges and characteristics of specific geographic areas, these teams focus on refining and tailoring agricultural models to regional contexts: from within country (e.g., Bavaria) to national-level (e.g., United States, India, Pakistan), to multi-country regions (e.g., West Africa, Middle East and North Africa, Indo-Gangetic Basin). By leveraging regional expertise, data, and perspectives, AgMIP Regional Teams contribute to a more nuanced understanding of how climate change impacts agriculture on a local scale. This targeted approach enables the development of region-specific adaptation and mitigation strategies, fostering resilience in the face of changing climatic conditions. The collaboration within these regional teams underscores AgMIP's commitment to providing context-specific solutions and promoting sustainable agricultural practices globally.

### 3. Data and IT

AgMIP's commitment to cutting-edge research extends to its robust Data and IT infrastructure. By facilitating access to comprehensive agricultural data, AgMIP enables researchers to enhance the accuracy and reliability of models used to assess the impact of climate change on global food systems. AgMIP's dedication to open science is evident in its well-curated data repositories, which serve as valuable reservoirs of diverse datasets crucial for model calibration and validation. The Impacts Explorer, a powerful tool developed by AgMIP, allows users to visualize and interpret model outputs, fostering a deeper understanding of the complex relationships between climate, crops, and socio-economic factors. Additionally, AgMIP embraces remote sensing technologies to incorporate real-time, high-resolution data into its analyses, enhancing the precision and timeliness of assessments. This integrated approach to Data and IT within AgMIP underscores its commitment to advancing agricultural science and



providing stakeholders with valuable insights for informed decision-making in the face of a changing climate.

#### 4. Convening AgMIP Workshops

##### a. Regional

AgMIP Regional Workshops engage participants in discussions and presentations on topics such as the impact of climate change on local agriculture, sustainable farming practices, adaptation strategies, and the integration of climate-smart technologies. Regional Workshops provide a platform for sharing best practices, showcasing successful case studies, and exploring innovative approaches to mitigate the challenges posed by climate change in the agricultural sector for that particular region.

##### b. Research Topic Focus

AgMIP Research Topic Workshops provide a space for in-depth discussions and collaborations among researchers, scientists, and experts within a specific topic area. The primary objective of such a workshop is to explore, share, and advance scientific knowledge related to the effects of climate change on agriculture and food security and identify innovative research approaches for sustainable solutions.

##### c. Global

AgMIP Global Workshops aim to foster knowledge exchange, capacity building, and collaborative problem-solving among the entire AgMIP community comprising over 1,200 modelers worldwide. Participants include farmers, researchers, policymakers, and representatives from non-governmental organizations.

#### 5. Capacity Engagement/Mobilization

There is tremendous capacity in agriculture and food modeling around the world, the challenge now is to engage and mobilize it. AgMIP catalyzes science-policy capacity strengthening and engagement to provide stakeholders with context-specific, evidence-based guidance on vulnerability to, impacts of, and adaptation/mitigation to climate change along co-developed development pathways. Building on the AgMIP Regional and Topical Approach, we mobilize engagement to advance capacity of specific teams, as well as individuals. This cohort approach has the potential to become a signature AgMIP program.

#### 6. Communications and Outreach

AgMIP has an established network that primarily communicates through an email



listserv, where individuals can distribute announcements to fellow AgMIP community members. The AgMIP Coordination Unit also maintains a presence on social media, and uses this communication avenue to announce recent AgMIP events and publications. Target audiences for AgMIP communications are the existing AgMIP community, the broader agricultural modeling community, and relevant stakeholders.

To grow communication among the AgMIP network even further, a quarterly newsletter was launched in early 2024, which serves as a way for AgMIP members to regularly maintain contact and interact beyond individual research teams and groups.

## **Path to Impact**

AgMIP's path to impact consists of the following steps:

- Set research agenda
- Develop sustained funding that enables collaboration
  - Model development
  - Assessments/applications
  - Capacity engagement
  - AgMIP Coordination, facilitation, and communications
- Empower existing AgMIP Teams and participants
  - Research teams
  - Regional teams
- Initiate new AgMIP activities and collaborations
- Perform assessments for IPCC, IPBES, EAT-LANCET, etc.
- Convene Community Events (Regional and Topical Workshops, AgMIP10, etc.)



## Part III: Structure, Governance, and Leadership

### AgMIP Structure and Governance

As a global research program, AgMIP operates as an informal alliance of donors and partners (Figure 3). Donors provide financial support for contractually agreed-upon outputs and outcomes. National and regional partners are autonomous organizations, operating at country or regional scales that contribute in specific ways to AgMIP initiatives, as defined by Agreement. Since AgMIP is not a legal entity at the current time, Agreements are not legally binding.

The AgMIP Coordination Unit, which resides at the Center for Climate Systems Research of the Columbia Climate School, supports the Steering Council, Executive Committee, and Research and Regional Leaders, with special attention to model improvements and processes for establishing high quality datasets and tools that render data and models interoperable, available, accessible, and useable. It also organizes regular global and regional workshops and convenings that are well structured and truly objective and agnostic relative to any particular model, where scientists share latest results with stakeholders. In addition to continuing its collaboration with the Columbia Climate School, AgMIP will develop a 501(c)(3) entitled the AgMIP Alliance, Inc. This will enable a broader range of potential funding opportunities and pathways. Associated with the 501(c)(3), AgMIP will develop new Bylaws.

AgMIP also includes individual members who are interested in engaging in AgMIP activities and abide by the AgMIP Standards of Conduct (see Appendix I). Individuals belonging to an AgMIP partner program, established by Agreement, are automatically recognized as individual members of AgMIP who agree to abide by the AgMIP Standards of Conduct.

AgMIP's Steering Council guides the organization, ensures its scientific integrity through review processes and exercise of budgetary expertise, establishes policies that apply throughout the broader organization, and facilitates a high level of cooperation across the entire organization. To ensure a balance of scientific perspectives, the Steering Council is composed of donors, partners, and members, with at least 50% of the council consisting of representatives of AgMIP partners and members.

Terms of reference for the selection and responsibilities for AgMIP Executive Committee (ExCom) Members have been developed by the Steering Council, in conjunction with the AgMIP Coordination Unit. Criteria for selection of AgMIP ExCom members include expertise, experience, suitability for advancing the mission, and the support of their institutions in serving in this capacity, with additional criteria at the discretion of the



Steering Council. Additional leadership roles are defined as needed to carry out AgMIP objectives.



Figure 3. AgMIP structure

## Leadership

The AgMIP community is based on a spirit of "working together through collaboration to do more." Our next generation seeks highly creative, risk-taking environments and often prefers multiple, dare-to-fail approaches, over a "compete and select the best" type of approach. In its next phase, AgMIP will continue to embrace the next generation of researchers in naming the culture and style of the program. Senior leadership will be encouraged to step into mentoring roles and more young leaders invited to positions of responsibility.

## Partners

AgMIP's partners are research institutions, each having its own leaders and management structure and each being responsible for its activities, work products, and finances; e.g., they may be research organizations in individual countries or in groups of countries. AgMIP partners may establish committees or task forces to focus on particular scientific topics of interest to their members. They may also be asked to serve on AgMIP teams that set practice (e.g., for AgMIP publications, outreach, etc. to comply with AgMIP Standards of Conduct, see Appendix I).

All AgMIP partners agree to contribute to, and to comply with, policies established by the AgMIP Steering Council in exchange for Agreements that allow them to use the AgMIP name and receive other benefits from AgMIP, both tangible (e.g.,



acknowledgement of partnership status and institutional link on the AgMIP website; access to, dedicated collaboration pages) and intangible (e.g., access to AgMIP's international network, association with the AgMIP, which is respected in the scientific community). AgMIP-Global and its Agreement-designated Partners will periodically undertake coordinated country, regional and global assessments based on mutually agreed-upon protocols.

AgMIP recognizes the importance of cooperation with other global and regional projects and initiatives that are currently in existence or that may be formed in the future. AgMIP policy is to seek partnerships with those entities that would be in the best interest of the AgMIP community of science. The goal is to minimize any real or perceived duplication of effort, and maximize outputs targeted by AgMIP, including agricultural model improvement efforts, initiatives for advancing scientific methods for development, evaluation, and application of agricultural models and assessment methodologies.

A key AgMIP activity is the performance of multi-model integrated regional and global assessments of climate change impacts and assessment of technology and policy options for increasing food security and adapting to climate risks. AgMIP partners may also be private-sector organizations. Agreements will be established as needed to facilitate the partnerships.

## **Governance**

### *AgMIP Steering Council*

The AgMIP Steering Council will consist of ~20 Members. One third of the Council Members will rotate off the Council every two years and new members will rotate on. The current AgMIP Steering Council will rotate in 2025. AgMIP Partners and participants in AgMIP may nominate new members of the Council on the two-year cycle. The Council will review and select the new Members each cycle. A two thirds majority is required for approval of a new Council Member.

### *AgMIP Executive Committee*

The Executive Committee will consist of 6-8 Members. The AgMIP Executive Committee will be appointed by the AgMIP Steering Committee, in coordination with existing Executive Committee Members. The current AgMIP Executive Committee membership is through 2026.

Membership for both groups is rotated in a staggered way to provide organizational continuity.



### *Decision-making and Dispute Resolution*

- o The Steering Council will seek to reach consensus on the issues that are before it.
- o In the case of a persistent disagreement within the Council where a decision is required in order for a project or program to go forward, a 2/3<sup>rd</sup> majority will be required to move forward.
- o Any decision that can potentially impact the broader AgMIP alliance of participating institutions will be announced and shared electronically via the AgMIP membership list within 1 week of the decision.
- o Since AgMIP is a voluntary alliance, any participating members who do not agree with the decision have the option to comply, but they are requested to notify the AgMIP Steering Council within 30 days of the announcement of the decision.

### *Intellectual Property*

Until such time that AgMIP develops a non-profit structure or similar legal identity, any funding provided by or through AgMIP to a collaborating individual or entity that results in the development of Intellectual Property, shall be owned by the recipient individual or entity, unless specified otherwise in a contractual agreement developed to implement the funding.



## **Part IV: Funding and Potential Donors**

### **Donors**

AgMIP donors are entities that wish to further the evolving mission, goals, and activities of AgMIP and who agree with the principles and practices that AgMIP observes (e.g., AgMIP Principles, see Appendix I). Donors may be governmental or non-governmental organizations, foundations, companies, private individuals, and so forth. Donors may award funds in support of AgMIP through the offices of the Executive Committee Members, the Columbia University-based Coordination Unit, other AgMIP Leader institutions, or the AgMIP partners. The AgMIP Alliance, Inc. offers another avenue for funding transfers.

AgMIP acknowledges the important in-kind contributions made by many of its community members. AgMIP is not a funding body and many collaborators participate in AgMIP initiatives with support from their own institutions.

### **501(c)(3)**

In addition to continuing its collaboration with the Columbia Climate School, AgMIP will develop a 501(c)(3) entitled the AgMIP Alliance, Inc. This will enable a broader range of potential funding opportunities and pathways.





## Part V: Conclusions

The AgMIP community has expressed a desire for increased growth, more impact, broadened policy relevance, more modeling applications, and a leap in cross-sector collaboration and advocacy. The growth of the last 10 years is acknowledged, and there is support to build on this momentum: from applications of models to predict impacts from shocks, to diversifying crops and systems to model, to extending to even more developing countries, to modeling more rangeland and livestock, the future development for AgMIP potential is large. Leadership will evaluate where and how to grow, and make strong choices in achievable increments.



## **Appendix I: AgMIP Principles**

The goal of the AgMIP Principles is to ensure that AgMIP leaders, members, partners, and users of AgMIP's scientific results are aware of the ethical principles guiding the organization's structure and its adherence to rigorous, peer-reviewed scientific investigation and evidence-based outputs. The Principles are maintained and updated by the Steering Council, in conjunction with the Coordination Unit.

The Principles provide a framework to guide ethical decision-making for AgMIP and to all of its partners and members.

### ***Principle 1. Scientific Integrity***

AgMIP projects and activities must have a primary public-good purpose. AgMIP endorses the use and development of open-source models, data and methods. AgMIP members and partners support academic and scientific freedom.

All AgMIP supported and endorsed research shall be conducted to meet the highest scientific standards as well as all applicable legal standards. AgMIP advocates peer-reviewed publication of all research results, regardless of outcome.

All AgMIP research shall be verifiable and reproducible by independent researchers with access to AgMIP models, methods, and databases. All AgMIP research shall be conducted objectively and transparently so that the structure of the research is presented factually and without bias. Protocols for internal review will be developed to confirm research findings and ensure the quality of AgMIP research.

AgMIP activities for improving, evaluating, and applying agricultural models should strive to use the highest-quality data, scientific methods, and research practices.

Members and partners are encouraged to share and confirm research findings with other AgMIP members and partners as part of the collaborative research process.

All AgMIP publications and reports must recognize and fully and accurately attribute all contributions of data, models, and intellectual inputs of individual and Partner members.

No person may be listed as an author on an AgMIP publication or report without permission; conversely, no major contributor may be left off the authorship of an AgMIP publication unless they request it.

AgMIP will be transparent in the disclosure of its funding sources.



All members must include language in their AgMIP-associated publications attribution of AgMIP as well as the sponsor who has provided support to the activity being reported. PDF copies of AgMIP-associated publications should be directed to the AgMIP Coordination Unit at Columbia University.

### ***Principle 2. Conflict/Declaration of Interest/Bias***

AgMIP believes that inclusion of a balance of perspectives is the most appropriate way to ensure that the impact of any potential conflict of interest or bias is minimized and does not exert an undue influence on the scientific process. Thus, AgMIP operates with transparency, conducts activities objectively, and is accountable to all stakeholders.

AgMIP trustees must declare any potential bias or interest, including but not restricted to financial interests, and may be asked to excuse themselves from decisions that might be construed as conflicts of interest.

With respect to publications, grant reviews, and expert panels, AgMIP expects the scientists with whom it works to declare any potential conflicts of financial interest. AgMIP may ask scientists to excuse themselves from an activity based on such a declaration.

Scientists who are contributing to AgMIP activities are expected to act in accordance with their own institution's conflict of interest policies and with applicable laws, as well as to comply with the conflict-of-interest policies of any journal or organization with which they may work.

### ***Principle 3. Advocacy***

Advocacy of any kind by AgMIP is strictly limited to promotion of the use of the best science and methods for development, evaluation, and application of agricultural models.

### ***Principle 4. Transparency in Meetings and Publications***

The purpose of and funding sources for all AgMIP-sponsored meetings, symposia, conferences, seminars and workshops will be fully disclosed in meeting materials.

All invited presenters will provide declarations of financial interest to be disclosed if relevant at the time of meetings (orally or in the meeting materials).

All AgMIP publications must reflect the high standards of the organization. AgMIP-sponsored manuscripts must undergo stringent peer-review by qualified



reviewers. Scientists are expected to recuse themselves as editors or reviewers of manuscripts if past or present connections with the author(s) preclude an objective evaluation of the work.

All AgMIP publications, including proceedings from workshops or symposia sponsored by AgMIP Partners or international committees will utilize appropriate attribution language to denote funding sources and sponsors.

***Principle 5. Participation in AgMIP Activities***

AgMIP activities must be open to participation of researchers from AgMIP partner members who have the capability and expressed wish to contribute to the projects and who agree to conform to the principles described in this standard of conduct, funding permitted.

AgMIP methods and activities should facilitate trans-disciplinary integration and collaboration.

AgMIP meetings, workshops, and conferences are open to all interested researchers, space and funding permitting.

***Principle 6. Resilient but Flexible AgMIP Structure***

AgMIP will endeavor to retain a structure that increases recognition of its expertise and authority through the use of necessary legal instruments or agreements while retaining the greatest possible flexibility in receipt and use of funds to enable research planning, execution, and assessment involving its world-wide community of scientists, practitioners, leaders, and planners.



## **Appendix II: Current AgMIP ExCom Membership**

Current institutions supporting AgMIP ExCom Leadership includes Columbia University/NASA GISS, Cornell University, Initiative Prospective Agricole et Rurale (IPAR), the International Livestock Research Institute (ILRI) representing the oneCGIAR, the Potsdam Institute for Climate Impact Research (PIK), Technical University of Munich, and Tamil Nadu Agricultural University.

## **Appendix III: Previous Projects and Funding Mechanisms**

With support from the UK Department for International Development, AgMIP investigators from over 20 countries, with the majority from South Asia and Sub-Saharan Africa, developed (2012-2017) a new method called Regional Integrated Assessment (RIA). The method provides scientifically rigorous information for projecting the future benefit of specific climate-related adaptations. Model exploration is tuned to stakeholder priorities to improve agricultural systems decision-making at local to national scales. The iterative integrated multi-model experiments use climate, crop, livestock, socioeconomic, and scenario information and models, with key parameters and results viewable in the AgMIP Impacts Explorer.

In response to the 2017 UN Framework Convention on Climate Change (UNFCCC) request for research on the implications of limiting global temperature increases to 1.5°C and 2.0°C above pre-industrial conditions, AgMIP developed novel methods for Coordinated Global and Regional Assessments (CGRA; Rosenzweig et al., 2018) of agriculture and food security. The CGRA protocols for the 1.5°C – 2.0°C assessment brings yet another new AgMIP method that establishes explicit and testable linkages across disciplines, models and scales in order to track the complex chain of climate impacts and identify key vulnerabilities, feedbacks and uncertainties in managing future risk.

In 2020-2021, with support from Canada's International Development Research Centre and the UK's Foreign, Commonwealth and Development Office, additional research was completed in Ghana, Senegal, and Zimbabwe. Through this project AgMIP developed a framework for Integrated National and Regional Assessments (INaRA) to simulate the effect of climate adaptation policies on the national agricultural commodity market, and are linked to global economic models, national RAPs, crop simulation models, and the AgMIP Impacts Explorer.