GISAIA Stakeholder Conference

Guiding Investments in Sustainable Agricultural Intensification

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Michigan State University
Advancing Knowledge, Transforming Lives

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Protocols

- Honourable Minister of Agriculture
- Honourable Minister of Power
- SSA to the President on Poverty Alleviation
- SSA to the President on International Media
- Members of the NGO community.
- Fellow Academics & friends from universities.
- Research and Outreach Partners in GISAIA
- Ladies and Gentlemen

Welcome to the Guiding Investments in Sustainable Agricultural Intensification initiative (GISAIA).
Purpose of the Conference

- To launch the GISAIA Initiative & to explore stronger relationships with various partners in Nigeria to help advance the Agricultural Transformation agenda.
- GISAIA is a Michigan State University initiative funded by a Bill & Melinda Gates Foundation.
- GISAIA’s Goal is to test several technologies that can increase farmers yields on major crops, especially rice.
- Initiative is the next step in MSU’s commitment to advancing knowledge and transforming lives in Nigeria.
- MSU’s presence in Nigeria goes back to the 1950 when it was the primary partner in the start of the University of Nigeria.
MSU – Premier Land Grant University

- First institution of higher learning in the US to teach scientific agriculture.
- Founded in 1855 as the first of the 69 land-grant institutions established under the 1862 Morrill Act.
- As the pioneer land-grant university, MSU led the democratization of higher education, helping to bring science/innovation into everyday life.
- MSU works to advance the common good in uncommon ways.
- Today, MSU is one of the top research universities in the world and the most committed to outreach and engagement.
- Its activities span the globe and it is one of the most visible universities in the area of agriculture.
Transforming Higher Education

- Before the likes of MSU, universities were designed for elites and existed mostly for the creation of knowledge.
- Architects of land grant universities saw the need for them to drive the future of society through new ideas and innovation in agriculture and the mechanical arts.
- With one stroke of the pen, society was connected to the vast knowledge base of universities.
- The Land Grant System has been credited for America’s agricultural and industrial revolution and the transformation of American society.
- This explains MSU’s personality and its commitment to outreach and engagement in the US and internationally.
How Universities Typically Work

Traditional Walls of the University

Important contributions to the intellectual and human capital of society.
The Land Grant System

Extends the Boundaries of Traditional Universities.

Mission Specific
Real-world Solutions

Mission Specific
Basic & Applied Research

Research

Professors

Teach

Student

Unique Resources

Practical research, targeted problem solving, public/community service & economic development.
Land Grant Philosophy

Academic Teaching & Research
University Funding

Mission Oriented Outreach
Direct Delivery of Solutions to Stakeholders

Capacity Building
Anticipation of Problems
Program Approach
Working with Communities

Mission Oriented & Applied Research
Applications of Innovative Findings to Pressing Stakeholder Problems
Research in the Land Grant

Standard University Model: Largely Supply Driven

Land Grant Model: Supply & Demand Driven

Dual Mission / Both Important
“Receive direct appropriations to extend the boundaries of traditional colleges and universities, to provide education in critical areas of need, to provide mission-oriented science-based solutions to targeted problems of society, and to deliver services to stakeholders.”

--Adelaja, Agricultural and Resource Economics Review, 2004
## Land Grant Infrastructure

<table>
<thead>
<tr>
<th>Item</th>
<th>Land Grant Capacity</th>
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</thead>
<tbody>
<tr>
<td>Complex and Wicked Problems</td>
<td>✓</td>
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<tr>
<td>Diverse Stakeholders</td>
<td>✓</td>
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<tr>
<td>Multidisciplinary Approach</td>
<td>✓</td>
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<tr>
<td>Teamwork and Partnerships</td>
<td>✓</td>
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<tr>
<td>Uncommon Education</td>
<td>✓</td>
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<tr>
<td>Public Goods</td>
<td>✓</td>
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<tr>
<td>Innovation &amp; Science</td>
<td>✓</td>
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- As a land grant university, MSU brings knowledge to bear on some of society’s most pressing problems.
MSU and Nigeria

- President Nnamdi Azikiwe search for model university as founding partner for the University of Nigeria.
- President John A. Hannah’s commitment.
- MSU administration and faculty as founding partners of UNN.
  - Development.
  - Infrastructure.
  - Research capacity.
  - Education.
  - Outreach.
  - Exchange programs.
- Vice Chancellor Nebo and Hannah Professor.
- New collaborations.
MSU Today - Academics

• 50,000 students from more than 130 countries and 529,000 alumni worldwide.
• 5,000 faculty and 6,400 support individuals.
• 200 programs of undergraduate, graduate, and professional study.
• Colleges:
  • Agriculture & Natural Resources
  • Liberal Arts and Humanities
  • Arts and Letters
  • College of Business Management.
  • Communication Arts & Sciences
  • Education.
  • Engineering
  • Human Medicine
  • James Madison College
  • Law.
  • Lyman Briggs College.
  • Music.
  • Natural Science
  • Nursing.
  • Osteopathic Medicine
  • Social Science.
  • Veterinary Medicine.
MSU Today - Global

• 1,400 faculty and staff members engaged in international research and teaching.
• 280 partnerships with international institutions.
• 25 internationally focused centers, institutes, and offices.
• Ranks sixth among large universities for producing Peace Corps volunteers with 2,268 alumni serving since 1961.
• Leading university in agricultural engagement.
• Prime partner of USAID in food security.
• MSU’s programs have transformed many places in Africa.
MSU’s Relevant Expertise

- Agriculture and related Value Chain.
- Food security.
- Economic Development and Job Creation.
- Land Policy, Place Strategy & Sustainable Development.
- Environmental remediation and Climate Change.
- Ecology and Sustainability Science.
- International Relations.
- Education.
- Biotechnology.
- Youth Development.
- Planning and Community Revitalization.
- Water Sciences and natural resources management.
- .........................etc
MSU’s Relevant Expertise

- Professor Eric Crawford.
- Professor Tom Jayne.
- Dr. Saweda Liverpool-Tasie.
- Andrew Dillon.
- Others.
MSU in Food Security

MSU’s work seeks to:
Improve the policy environment to make markets work for the poor

– Well-functioning markets for food, cash crops, and agricultural inputs are essential to strengthening food security. Often, poorly designed policies hurt poor farmers, traders, and consumers by hindering competition, raising costs unnecessarily, and increasing the risk to private investment. FSG-led research and outreach have been instrumental in reducing restrictions on regional grain and livestock trade among countries in Southern, Eastern, and West Africa, opening new markets for small farmers and allowing poor consumers in food-deficit countries access to low-cost basic staples. Policy reforms on maize milling in Zimbabwe in the 1990s resulting from MSU-led research increased cash incomes of at least 200,000 rural consumers by 10 percent to 25 percent and real incomes of more than 100,000 poor urban consumers by 7 percent to 13 percent.
MSU in Food Security

MSU’s work seeks to:
Connect small farmers to profitable market opportunities through better market information

– MSU has played a critical role in helping African partners build sustainable market information systems in Mali, Zambia, Mozambique, Ethiopia, and Rwanda and in promoting cross-country learning through the creation of regional market information system networks. These systems provide small farmers and traders reliable, up-to-date information on their crops in local, national, and regional markets, and they provide policy makers a much more solid empirical basis for designing effective pro-poor market actions. In 2004, the Development Gateway Foundation cited MSU’s work on improving market information in Mali as the most exemplary use of information and communication technology for development in sub-Saharan Africa over the past decade.
MSU in Food Security

MSU’s work seeks to:
Strengthen agricultural research systems

– Research by FSG in the 1990s documented high payoffs to agricultural research in Africa, thereby helping to reverse a trend that began in the 1980s among donors and African governments to reduce investment in agricultural research. FSG has played key roles in helping national agricultural research systems in Mali and Mozambique establish research priorities so that scarce research expenditures contribute optimally to food security, poverty alleviation, and sustainable development. In Mozambique, the FSG team worked recently with research program managers to develop a five-year, $30 million investment plan to be financed by the Mozambican government.
MSU in Food Security

MSU’s work seeks to:
Understand the links between health and food security

- FSG research across several countries in Southern, Eastern, and Central Africa has provided a more detailed and nuanced understanding of the impact of HIV/AIDS on rural households and has contributed to appropriate policy and investment responses to help affected households, communities, and countries cope with the crisis. Similarly, work by FSG-African teams on links between agricultural growth and child malnutrition in Mozambique and Mali is being used to design more effective hunger alleviation projects.
MSU in Food Security

MSU’s work seeks to:
Put agriculture back on the African development agenda

– From the mid-1980s to the turn of the 21st century, agriculture fell off the development agenda of many international donors and African governments. By demonstrating the key role of agriculture in poverty alleviation and broad-based economic growth, the FSG’s work has played a critical roles in reversing that situation. Working with several African presidents through the Partnership to Cut Hunger in Africa, MSU-FSG contributed to agricultural development being featured prominently in the African Union’s New Partnership for Africa’s Development (NEPAD), which has been endorsed by all major international donors.
MSU in Food Security

MSU’s work seeks to:
Improve food security while protecting the environment

– Agricultural area expansion into marginal lands is leading to widespread deforestation, destruction of wildlife habitat, erosion, desertification, and depletion of scarce water sources. MSU researchers and their African partners have been at the forefront of analyzing and proposing new strategies for sustainable land and water management in the Sahel, conservation farming in Zambia, and improved, sustainable agricultural input markets, which are essential to promoting sustainable agricultural intensification, throughout Africa.
MSU in Food Security

MSU’s work seeks to:

Improve emergency responses to food crises and prevent crises before they happen

– Over the past 20 years, Africa has suffered through many natural and human-induced disasters in Rwanda, Niger, Sudan, and Ethiopia, to name but a few countries. Often, the emergency responses deployed to save lives in the short run – free distribution of food and agricultural inputs – can undermine incentives for longer-term agricultural development. MSU-FSG members, working with the United Nations’ World Food Programme, have developed training materials to help emergency personnel diagnose the situation better to ensure that responses that save lives in the short run also contribute to long-term development. FSG members are also currently working to help all 700 townships in Mali develop local food security plans intended to raise local production and incomes, thereby reducing the need for emergency relief. With USAID’s Office of Food for Peace, FSG has helped design approaches to local food aid procurement to maximize the effectiveness of food aid resources and has provided innovative thinking on how to design emergency response in light of real needs on the ground.
MSU in Food Security

MSU’s work seeks to:
Strengthen African scientific and policy-analysis capacity

– Africans themselves must make the fundamental decisions about Africa’s food security. MSU-FSG, through its education and outreach roles, has made major contributions to the training of Africa’s agricultural scientists and policy analysts, through degree training at MSU and continual mentoring, and in-service training in Africa. MSU African graduates play critical roles in agricultural research institutes, ministries, NGOs, the private sector, and international organizations. MSU-FSG is currently helping strengthen policy analysis and agricultural economics programs in Mozambique, Kenya, Zambia, and Mali and through regional research networks. The Food Security and Food Information Portal for Africa (http://aec.msu.edu/fs2/test/index.cfm) connects African scientists and policy makers to the wealth of information available regarding food security on the Internet, provides them and their students with online teaching materials, and allows them to post their own work.
MSU in Food Security

What others are saying about MSU

“…The largest aggregation of individuals focusing on African agricultural development anywhere …”
– Rockefeller Foundation

“… has a world-class international development program, especially in Africa. This program has had a major impact on policies, institutions, and human capital development in many developing countries. It is the preeminent U.S. university for training of African graduate students in agricultural development.”

“… U.S. Department of Agriculture External Review Committee “We know of no other land-grant university in the United States which has made such a sustained effort to provide

… African institutions with high-quality resources to assist in economic development.” – U.S. Agency for International Development External Review Team.
Conclusion

- Once again, Welcome.
- The team from MSU will engage you today as partners to work together on Nigeria’s agricultural transformation.
- They will also explore opportunities in energy and other areas.
- I encourage you to explore these opportunities we have to work together.
- Thank you.