Building Bridges:

Interdisciplinary communities of practice for gender responsive agricultural research

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Gender Summit Africa

28-30th April 2015





Gender Rhetoric......to Practical Action?

"Effective ways of linking domain expertise in different STEM fields with relevant gender expertise to tackle more effectively specific gaps in scientific understanding of gender issues in key areas (e.g. food security)"

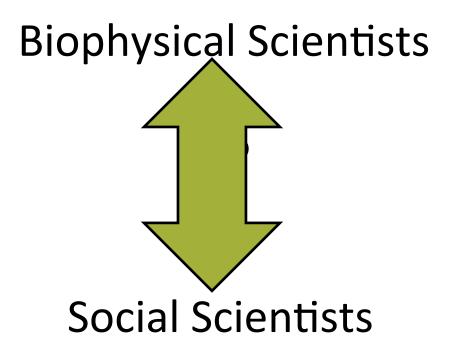
Case studies:

- 1 Meeting level: "Integrating end-user preferences into RTB breeding programs" workshop
- 2 Project level: "Gender-Responsive Researchers Equipped for Agricultural Transformation" concept development

Two ends of a spectrum?

"How researchers choose their methods demonstrates a commitment to a version of the world and how the researcher can come to know that world."

Moon and Blackman, 2014





Sliding Scales- Exploring "Boundary Language"

Moon and Blackman, 2014

1.0 ONTOLOGY: What exists in the human world that we can acquire knowledge about?

1.1 Naïve realism
Reality can be
understood using
appropriate
methods

Realism: one reality exists

1.2 Structural realism

Reality is described by scientific theory, but its underlying nature remains uncertain

1.3 Critical realism

Reality captured by broad *critical* examination 1.4 Bounded relativism

Relativism: multiple realities exist

Mental constructions of reality are equal in space & time within boundaries (e.g., cultural, moral, cognitive)

1.5 Relativism

Realities exist as multiple, intangible mental constructions; no reality beyond subjects

2.0 EPISTEMOLOGY: How do we create knowledge?

2.1 Objectivism

Meaning exists within an object: an objective reality exists in an object independent of the subject

2.2 Constructionism*

Meaning created from interplay between the subject & object: subject constructs reality of object

2.3 Subjectivism

Meaning exists within the subject: subject imposes meaning on an object



3.0 THEORETICAL PERSPECTIVE: What is the philosophical orientation of the researcher that guides their action/research? Knowledge acquisition is inductive, 'value-free', generalizable Knowledge acquisition is inductive, value-laden, contextually unique Application: to predict 3.1 Positivism Natural science methods (posit, observe, Moon and Blackman, derive logical truths) can be applied to the 2014 social sciences 3.2 Post-positivism Multiple methods are necessary to identify a valid belief because all methods are imperfect 3.3 Structuralism The source of meaning comes from the formal structure found in language & can apply to all aspects of human culture Application: to understand 3.4 (Social) Constructivism Meaning making of reality is an activity of the individual mind 3.5 Interpretivism Natural science methods cannot apply to social science; interpretations of reality are culturally derived & historically situated 3.5a Hermeneutics 3.5c Symbolic interactionism 3.5b Phenomenology The essence of human experience of The researcher must take the position of Hidden meaning (of language) exists in texts, practices, events & situations, phenomena is only understood when the those researched (interaction) by sharing beneath apparent ones researcher separates their own experiences language & other tools (symbols) Application: to emancipate or liberate 3.6 Critical theory Research & theory should be used to change situations (focuses on power relations, critiques assumptions & evolves) 3.6a Emancipatory 3.6b Advocacy or 3.6c Feminism The subjects of social participatory The world is patriarchal & inquiry should be Politics & political agendas the culture it inherits is should be accounted for empowered masculine Application: to deconstruct 3.7 Post-structuralism Different languages & discourses divide the world & give it meaning 3.8 Post-modernism Truth claims are socially constructed to serve interests of particular groups, methods are equally distrusted; might not be possible to arrive at any conclusive definition of reality Application: any or all 5 3.9 Pragmatism All necessary approaches should be used to understand research problem



Workshop: "Integrating End User Preferences in RTB Breeding Programs"

BILL & MELINDA GATES foundation





- Bring together three domains of expertise- social scientist (gender experts and ag economists), food scientists and plant breeders
- Present evidence/viewpoint from each group
- Brainstorm to translate knowledge and bridge silos
- Construct roadmap of cross-disciplinary holistic solution to issue

1 Meeting Level: Setting the scene

Case Study:

A team of researchers just received funding to develop a novel purple-fleshed yam variety. The donors required that the variety meet specific demands of young women who earn a living making purple-pounded yam in Ghana.

How would you consult the end users to understand their preferences?

Divergence: Social scientists focused on qualitative and open-ended methods. Biophysical scientists focus on "traits" and data collection.

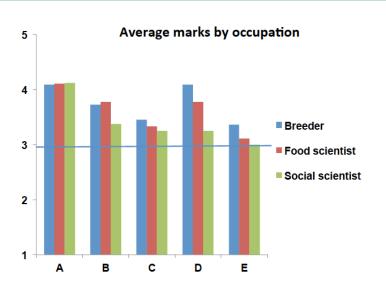
Convergence: all suggested looking at value chain, socioeconomic context, getting intended users preferences and perceived benefits. Focus on women.



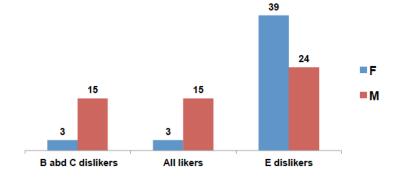


1 Meeting Level: Seeing is believing



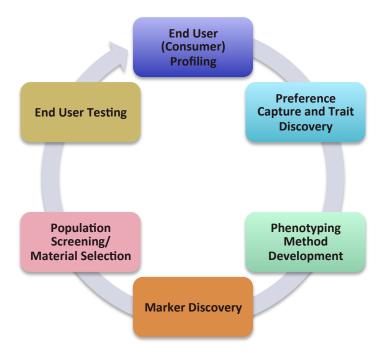






1 Meeting Level: Results

- High level technical presentations from all disciplines
- Conclude with "Bridging" presentations
- Build shared process framework: group inputs gaps and opportunities



• End with interdisciplinary groups working on each step







Gender-responsive Researchers Equipped for Agricultural Transformation (GREAT)

Cornell - Makerere Certificate Program

Agricultural researchers equipped practical skills and tools to shift from "gender rhetoric" to tangible change on the ground.







- Bring together diverse disciplines:
 - o gender experts specializing in agriculture,
 - biophysical scientists from crop production, animal science, food science, nutrition, ag. economics and natural resources
- Build interdisciplinary teams that appreciate one another's ontologies, epistemologies, and theoretical perspectives!







Important elements 1: Listening and history



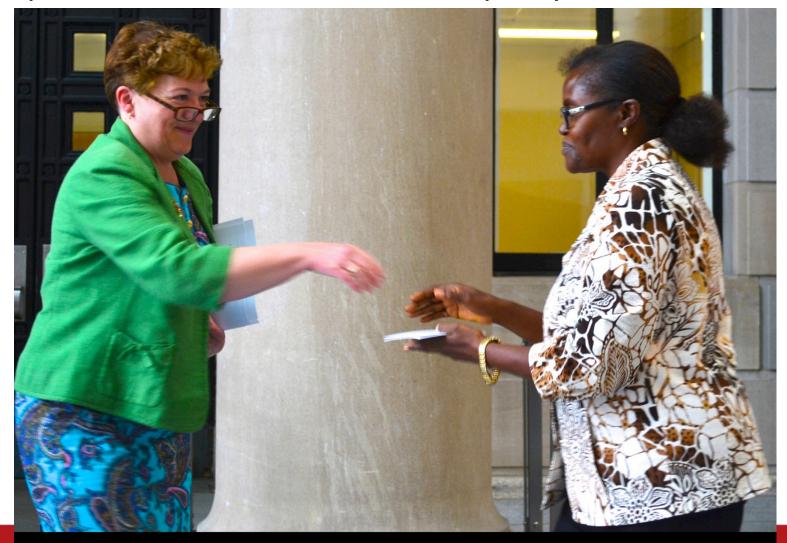
Important elements 2: Share experiences



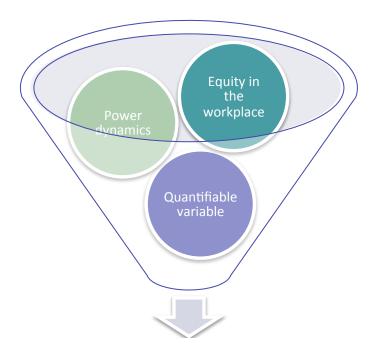
"Gender-responsive agricultural research: Moving from exception to rule"

Expertly moderated by the AWARD Director, Dr. Wanjiru Kamau-Rutenberg, six participants comprising faculty of Makerere University and Cornell University as well as gender experts from sub-Saharan African and the United States, summarized their experience with gender in agricultural research and their understanding of the emerging needs

Important elements 3: Leadership buy-in



 Important elements 4: Build consensus and agreement around key concepts and actions



Birth of the GREAT idea!



GREAT Idea: Vision

GREAT equips a "critical mass" of agricultural researchers with tools and skills to shift from gender rhetoric to evidence-based gender responsiveness in their field, while capably engaging for transformative change in institutions and national policies.

In the long term:

- •Contribute to gender-responsiveness becoming "the norm" in agricultural research design, implementation, and measurement of success.
- •Gender training becomes part of agricultural education curricula
- •Participant countries develop and implement policies for equitable agricultural development.
- •Women smallholder farmers and ag. entrepreneurs across SSA gain substantially from gender-responsive agricultural technologies, interventions, and policies.

GREAT Idea: Scope and Learning Outcomes

Research design phase

- Situational analyses
- Design recognizing impacts on women and men, and relationships
- Identify problems and/or opportunities
- Choose and use frameworks and tools for sex-disaggregated data.

Research implementation phase

- Develop budgets to include gender analysis
- Learn when to ask for help and draft TORs for gender experts
- Analyze, interpret, report and learn from sex-disaggregated data

Research evaluation and communication phase

- Gender-responsive M&E indicators track changes and measure outcomes
- Provide gender-responsive feedback to communities
- Communicate and capably present evidence to different audiences, including policy makers.

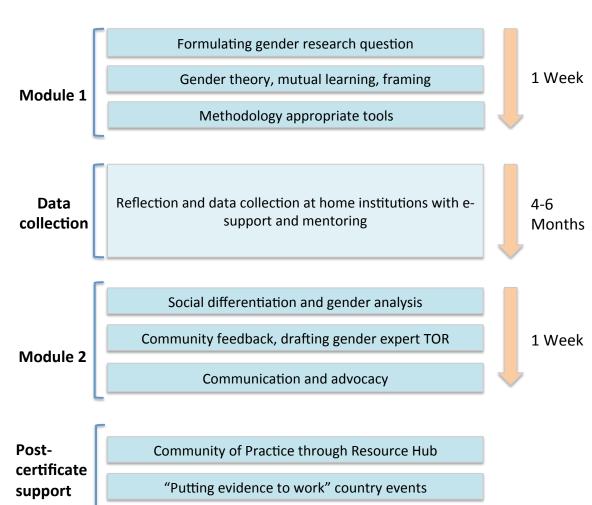


GREAT Idea: Structure

 "Blended" model, focused on application

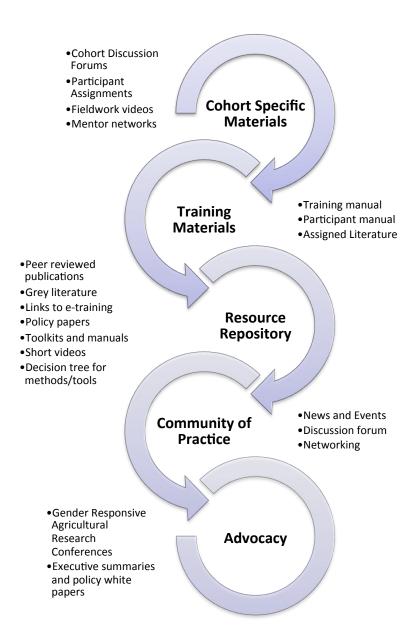
Tailored to "Themes":

- crop improvement
- nutrition
- food science
- natural resource management and climate change
- animal science
- extension education
- markets with a focus on SMEs





GREAT Idea: E-learning and Support



- Designed by Cornell
 Academic Technologies
 Unit
- Searchable using multiple
 Boolean queries, and
 systematically catalogued
 for easy navigation,
 including short descriptions
 and keywords.
- Home to community of practice of gender in agricultural research

GREAT Idea: Strengthening Institutions

- Train "institutional teams" of multiple individuals from one institution to work as a team during the course, and compete for seed grants
- Team members represent junior and senior researchers, women and men, and include gender focal points where available
- Partner with AWARD to offer Leadership Program for Agricultural
 Research & Development with a gender focus to participants' leadership
- Support "putting evidence to work" in-country follow-up events to promote and communicate the need for increased institutional, national, and regional gender-responsiveness to policy makers

GREAT Idea: Next Steps

Pilot GREAT course focused on cassava value chains in Uganda:

Week of 27th July 2015

- Curriculum design in progress
- Sponsored participants welcome!
- Location: Makerere University
- Second week expected November 2015

Conclusions

- Building bridges between STEM fields and gender expertise starts with mutual understanding and sharing experiences
- Developing a shared vision brings the "two ends of the spectrum" together: we are all working to benefit people!
- Address concerns and viewpoints of all disciplines in action plan and design to secure commitment and agency
- Convincing a community is powerful but to transform the system need leadership to buy-in and drive the change







2 Project Level: Visioning convening outcomes

- Biophysical scientists see the links between research and human use, and shift behavior to prioritize outcomes serving this link.
- Build interdisciplinary teams that understand one another and commit to action together- move beyond rhetoric
- Consensus terminology, vision and expected outputs
- Leadership buy-in to help advance the idea

The Birth of a GREAT idea!

