

Participatory Research Update

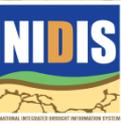
Tonya Haigh, Nicole Wall,
Shim Beyene



Project Objective:

- ▶ apply seasonal forecast systems to prediction of **socially relevant impacts** on crops, flood risk, and economic outcomes, and **assess the value of these predictions to decision makers.**

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Participatory Research:

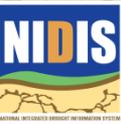
- ▶ A collaborative approach to research that bridges the gap between scientific knowledge and experiential knowledge

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Opportunities for Participation:

- ▶ Workshop in Addis Ababa, July 2014
- ▶ Webinar, June 2015
- ▶ Survey/Interview with Participants, July 2015
- ▶ **Workshop #2, July 2015**
- ▶ Possible webinars and other opportunities throughout 2015/2016
- ▶ Workshop #3, 2016



2014 Workshop

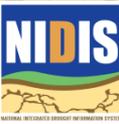
- ▶ Discussions of
 - Uses of weather and climate information
 - Agencies involved in generating and transforming/packaging climate information
 - Types of climate information used
 - Gaps in information and data
 - Impacts of climate information and climate extremes



<http://drought.unl.edu/NewsOutreach/Outreach/Workshops/NasaEthiopia.aspx>

2014 Workshop: Climate Change Impacts

Type of Impact	Top 3 Perceived Impacts from those listed in the Survey
Natural	Biodiversity, water quantity, insect manifestations
Built	Water wells, energy projects, dams, water and climate monitoring equipment (tied for 3rd)
Financial	Agricultural productivity, number of people in poverty, food costs
Political	Political or water-use conflicts, climate adaptation (tied for 1 st), water related policy, satisfaction with governmental leadership
Social	Population migration, social networks and organizations, public awareness of climate/water issues (tie for 2 nd), public services
Human	Health/disease, quality of life, education and skills, size of labor force, access to medical treatment (3-way tie for 3 rd)
Cultural	Sustainability practices, local foods and cuisines, and gender and age-based roles



Identifying Stakeholder Partners

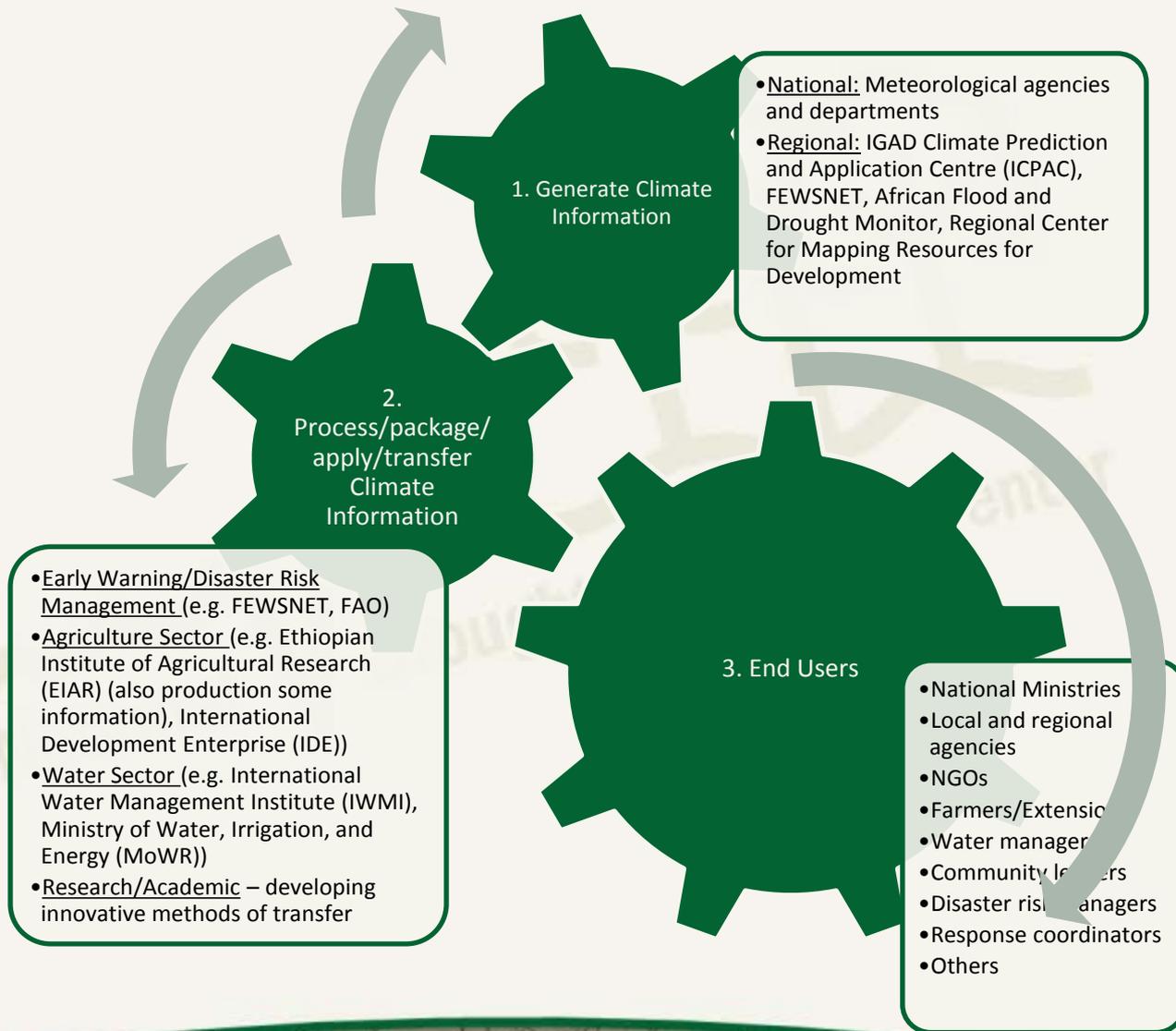
- ▶ Decision makers and/or their advisors representing the local (private, governmental, and NGOs), regional, and international organizations in the GHA.



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Climate Information Flow



Decision-making Needs

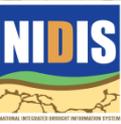
▣ Agriculture

- Land preparation
- Fertilization
- Irrigation
- When to plant and/or harvest
- Which crops to plant
- Which crop varieties to plant
- Whether to sell/takeoff livestock
- Whether to buy feed/water for livestock
- Manage Tse Tse fly and Dengue

Decision-making Needs

▣ Water Management

- Plan/build water storage
- Plan/build drinking water improvements projects
- Plan/build irrigation projects
- Manage water supply
- Education/outreach



Decision-making Needs

▣ Disaster Risk Management

- Pre-position stocks of food, water, shelter, etc.
- Make changes to policy
- Lead community irrigation or other building projects
- Issue warnings
- Inform populations-at-risk
- Identify vulnerable people and places
- Deploy staff or train volunteers
- Make contingency plans



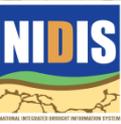
At what scale is information needed?

- ▶ Agriculture
 - Local to GHA region
- ▶ Water Management
 - River basin is a primary need
- ▶ Disaster Risk Management
 - Field/plot to GHA region



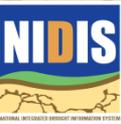
Today's Discussion

- ▶ When do these and other routine activities or decisions typically take place throughout the year?
- ▶ When is seasonal drought and flood information needed?
- ▶ How accurate of information is necessary in order to be able to use it? Is there a certain level that is a trigger to action?
- ▶ What are the opportunities and limitations for providing needed information?



Tomorrow's discussion

- ▶ What do you think it would take to make this information locally relevant to your decision making sector?
- ▶ What is changing? What do modelers need to consider for future climate impact models?



Process

- ▶ Split into three sectors (by color of dot on back of nametag)
 - Yellow dot – Agriculture (Andualem Shiferaw, Large Hall)
 - Blue dot – Water Management (Paul Block, 8th floor room)
 - Green dot – Disaster Management (Shimelis Beyene, Large Hall)
 - Red dot – Climate provider (placed equally in the above 3 categories)



Process

- ▶ Paper, worksheets, and markers
- ▶ Please think on your own before discussing
- ▶ Write answers on white large paper or worksheet. Enough large papers to split into 2 sub-groups. Some decisions for each sector (from survey) are already listed for discussion.

Process

- ▶ Designate note taker/recorder for feedback
- ▶ Each group report out Wednesday morning
- ▶ Feedback forms
- ▶ We appreciate your participation!



Thank you!

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