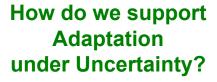


How do we support Adaptation under Uncertainty?





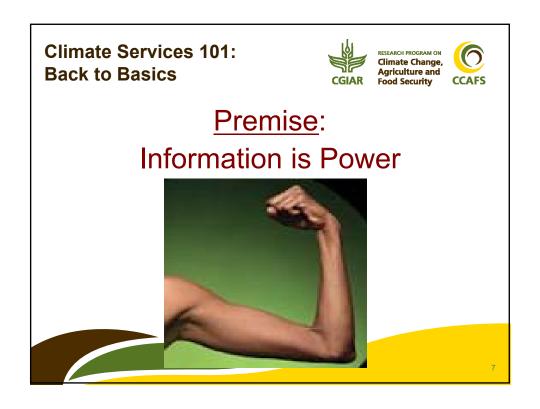
- One solution: Prepare for the Unknown
- Improve Decision-Making under Uncertainty
 - Equip farmers and policy makers with climate information, early warnings and forecast to guide, inform and support their decisionmaking under uncertainty
 - Strengthen preparedness at timescales of the week, season to year

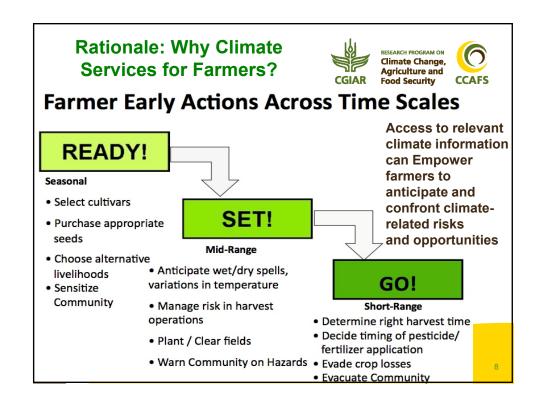


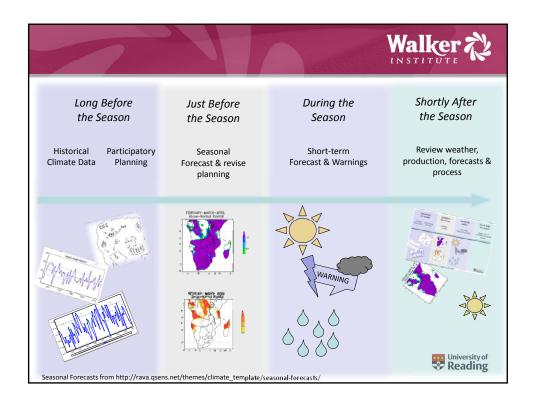


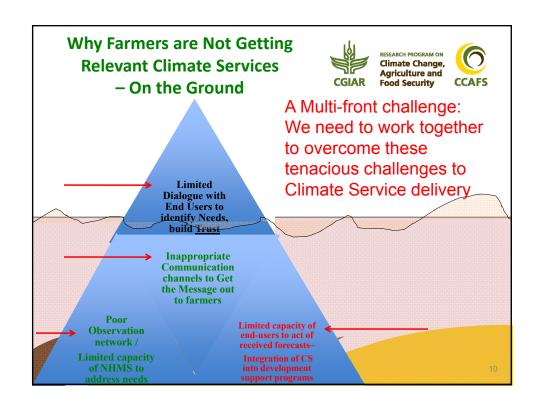


- One solution: Prepare for the Unknown
- Improve Decision-Making under Uncertainty
 - Equip farmers and policy makers with climate information, early warnings and forecast to guide, inform and support their decisionmaking under uncertainty
 - Strengthen preparedness at timescales of the week, season to year









Challenges to Realizing Potential of Climate Services for Farmers



Salience: tailoring content, scale, format, lead-time to farm decision-making

Legitimacy: giving farmers an effective voice in design and delivery

Access: providing timely access to remote rural communities with marginal infrastructure

Equity: ensuring that women, poor, socially marginalized benefit

Integration: climate services as part of a larger package of support

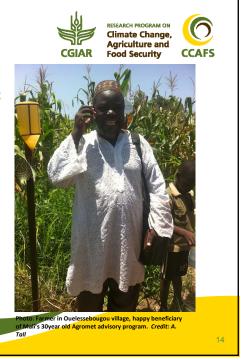


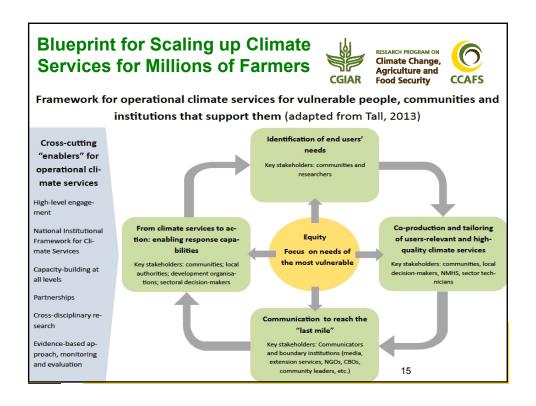


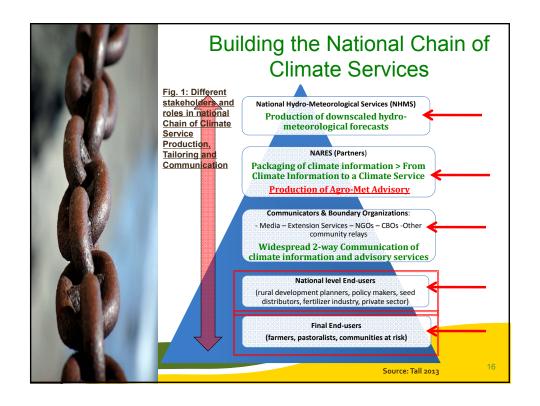


Reaching Farmers with Climate Services at Scale > Mission Possible

- Examples surveyed by CCAFS prove that it is today Mission Possible to reach millions of farmers with salient and downscaled climate information and advisory services relevant to support their decision-making under an uncertain climate.
- •It is time to Scale Up this approach for many other farmers to have access and benefit from available climate information and advisory services.
- •The time is Right for Climate Services.











#3: Testing Principles of Co-Production in Kaffrine



RESEARCH PROGRAM ON Climate Change, Agriculture and Food Security



Opening Spaces for iterative dialogue, interaction and <u>Co-</u> production of climate service

PAR > key to success

involving communities (community diaries of local CC impacts)
Capturing local innovation (forecast bulletin boards, SMS language)

Results of Kaffrine gender research end project assessment

Increase in access, from handful in 2011 to 100% by 2012

Demonstrated Usefulness of received information, for all products across timescales

Added value to traditional forecasts



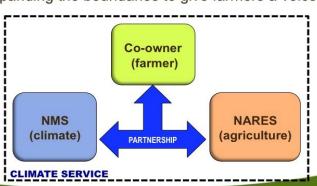
Soxna Ndao, Dioly village, stating: 'We women, need information on when the rainy season will stop, as men plant for us later in the season. Credit: A. Tall

Institutional arrangements for salience?

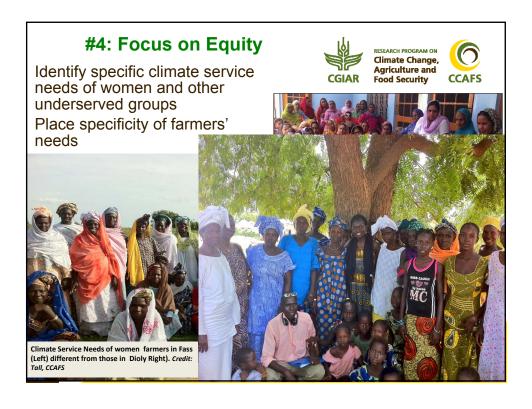


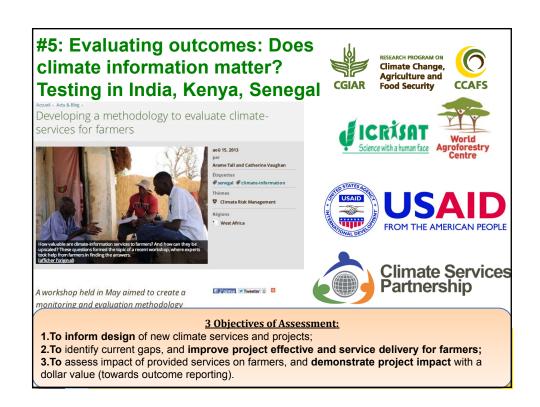


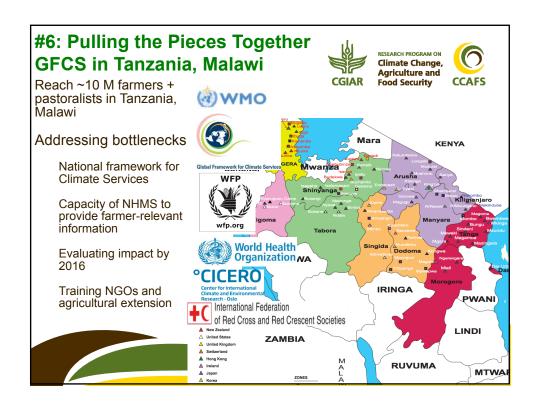
- Limitations of supply-driven climate services
- Expanding the boundary to agricultural research and development
- Expanding the boundaries to give farmers a voice

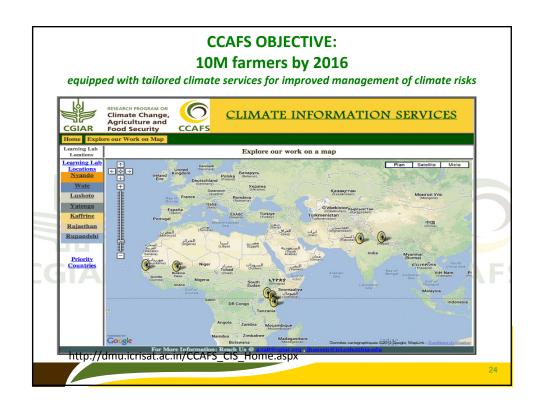


Courtesy: J. Hansen, CCAFS/IRI









Climate Services 2015-2020: Research Questions







- ROT: Measuring Impact: Does tailored climate information and advisory services build farmers' resilience? If so, HOW and UNDER WHICH CIRCUMS TANCES? (long term ex-ante experiments demonstrating use and value) work
- Robrekering Equity considerations in the design of Climate Services for **Parties: What** added-value when female farmers and other marginalized groups are targeted in service delivery?
- marginalized groups are targeted in service delivery?

 RQ3: Enabling Institutional Framework: Which methods to broker effective partnership between NHMS and PARES at national/regional levels for production and delivery of all lives privices for farmers and food security decision-makers?
- Deliver policy of armers? ICT-based technology and capacity building needs to impact at scale.
- Intermediaries)
 Ros: Climate Services in support of Livestock Fishing Liveling ods

25

Additional Resources



RESEARCH PROGRAM ON Climate Change, Agriculture and Food Security



- Join the CGIAR Climate Services Community of Practice!
 - □ http://cscop.iri.columbia.edu/community-members.html
- Online Resources
 - □ Climate Services for Smallholder farmers: http://ccafs.cgiar.org/climate-services-farmers#.U430S6PD9kQ
- Publications
 - ☐ Scaling Up Climate Services for Farmers in Africa and South Asia: http://cgspace.cgiar.org/handle/10568/27833
 - ☐ Developing a Methodology to Evaluate Climate Services for Farmers: http://cgspace.cgiar.org/handle/10568/33442

26