



**Crop and Livestock Diversity for Climate Change
Adaptation: Review of Evidence Base and Identification of
Research Priorities and Potential Uptake Pathways
8 – 11 October 2013, Bioversity International, Rome**

Expert Meeting

Crop and Livestock Diversity for Climate Change Adaptation:

Review of Evidence Base and Identification of Research Priorities and Potential Uptake Pathways

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Crop and livestock biodiversity is both threatened by climate change and considered to be a crucial resource for adaptation and ensuring food security in the face of global economic and environmental challenges. Subsistence-based and natural resource-dependent societies are especially vulnerable to global drivers of disruption, including climate change. In such contexts, food security urgently needs to be strengthened by investing in the adaptability of food systems.

However, the largest investments in food production continue to be associated with agricultural innovations, often as part of packages that rely predominantly on breeding programs and artificial capital inputs, including agrochemicals and irrigation, to increase the productivity of some major crops and livestock, which are often advocated as crucial for agricultural climate change adaptation. Much less emphasis is being put on understanding the potential role of agricultural biodiversity in meeting this challenge, including the capacity of local systems that rely on existing natural, human and social capital assets such as biodiversity, traditional knowledge and informal institutions underpinning collective action to reduce vulnerability and contribute to adaptive capacity.

An assessment of the existing evidence base related to the contribution of crop and livestock biodiversity conservation and sustainable use to climate change adaptation, together with the identification of research gaps, may be expected to provide crucial information for informing the policy debate (as well as related donor dialogue) and providing an additional and strong argument in favour of the development and implementation of a strategic approach to on-farm agrobiodiversity conservation and sustainable use.

Meeting Objective:

- To identify key research issues/questions for both crop and livestock diversity, undertake a gap analysis, map out areas for strategic future research (including for joint research) and identify strategies to facilitate donor dialogue and uptake pathways.

Post Meeting Outputs

- State of the art review regarding the contribution of agricultural biodiversity to climate change Adaptation
- A technical report, policy brief and scientific article
- Research proposals for potential donors
- Realisation of case studies (in 2014).

Meeting organizers:

- Bioversity International with support from the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS)
- Basque Centre for Climate Change with support from the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS)
- FAO with support from Sweden
- Diversitas

Programme

DAY	SESSION	CHAIR OR PRESENTER	MEETING ROOM/ FLOOR
Day 1 – Tuesday 8 October 2013			
8:49	Arrival at Maccarese-Fregene Train Station (Departure from Tuscolana Train Station: 8:21)		
9:00-10.00	Plenary Session <ul style="list-style-type: none"> • 9:00-9:15 Welcome • 9:15-09:30 Objectives and Structure of Workshop. • 09.30 – 10.00 Introductions/Getting to know each other exercise 	Stefan Weise Unai Pascual, Irene Hoffmann, Jacob van Etten Adam Drucker	Sakura Room/ Ground Floor
10:00-11:00	Plenary: Setting the scene : Intro to Climate Change impacts on ABD and Responses <ul style="list-style-type: none"> • PGR: Ecological aspects of designing multi-scale agrobiodiversity research. (15 minutes) • AnGR: Local breeds and their use in times of climate change (15 minutes) • Tree Genetic Resources: Impacts on forests and importance of genetic resources for response (15 minutes) • Discussion 	Chair: Unai Pascual Louise Jackson Connie McManus Judy Loo	Sakura Room/ Ground Floor
11.00-11:15	Coffee		Cafeteria/ Ground Floor
11:15-12:45	ABD Working Group Session 1: Introduction to Climate Change Impacts on ABD and Responses <ul style="list-style-type: none"> • What impacts are occurring? • What does adaptation to CC mean from an ABD perspective? • What have been the responses so far? 		Sakura Room and Vavilov Room (G15-G16) / Ground Floor



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12:45-2:00 Lunch	Lunch and Rapporteur Prep Time: During this time, the rapporteurs and chairs of the breakout groups consolidate a short PPT presentation to report back to plenary.		Staff Room and Dining Room / 1st Floor
2:00-3:30	Plenary: Identification of Commonalities, Differences and Challenges between ANGR and PGR <ul style="list-style-type: none"> • ABD Working Group rapporteurs report back to plenary • Discussion 	Chair: Paul Boettcher	Sakura Room/ Ground Floor
3:30-4:00	Coffee		Cafeteria/ Ground Floor
4:00-5:30	Plenary: Applications of interdisciplinary research relating to climate change adaptation across scales <ul style="list-style-type: none"> • AnGR: Integration of data to study livestock diversity and adaptation. (10 minutes) • PGR: TBC (10 minutes) • Discussion 	Chair: Stefano Padulosi Alessandra Stella Stella Nordhagen	Sakura Room / Ground Floor
5:42	Departure from Maccarese- Fregene Train Station		

Day 2 – Wednesday 9 October 2013			
8:49	Arrival at Maccarese-Fregene Train Station (Departure from Tuscolana Train Station: 8:21)		
9:15-11:00	Plenary Session with CCAFS members <ul style="list-style-type: none"> - Brief Introduction to CCAFS Programme CCAFS Presentations (10 minutes each) <ul style="list-style-type: none"> • Livelihoods diversification, adaptive capacity and resilience to change, including a changing climate • Matching crops to future climates: how good are our models? • Assessing the impacts of acidic and basic deposition on ecosystem functioning • Innovation and the biodiversity challenge: why we need boundary organizations • Discussion 	Chair: Jacob van Etten Patti Kristjanson Andrew Chaliner Mary Scholes Holger Meinke	Sakura Room/ Ground Floor
(10:30-11:00)			
11:00-11:15	Coffee		Cafeteria/ Ground Floor

11:15-12.15	<p>ABD Working Group Session 2 with CCAFS Participation: Synergies and Trade-offs between adaptation and mitigation</p> <ul style="list-style-type: none"> • What are the trade-offs between adaptation and mitigation? • Why do these exist? • How can the trade-offs be addressed in a way that moves us toward synergies? 		Sakura Room, Vavilov Room (G15-G16), and Pacioli Room (G29) / Ground Floor
12:15-12:25	Group Photo		
12:25 -2:00	<p>Lunch and Rapporteur Prep Time: During this time, the rapporteurs and chairs of the breakout groups consolidate a short PPT presentation to report back to plenary.</p>		Staff Room and Dining Room/ 1 st Floor
1:00	CCAFS members: Departure from Maccaresse-Fregene Train Station to IFAD		
2:00-3:30	<p>Plenary: The Roles of Technology, Traditional Knowledge, and Local Innovations</p> <ul style="list-style-type: none"> • ABD Working Group rapporteurs report back to the group on breakout group discussions with CCAFS members. • AnGR: Animal Production in the Caribbean and Climate Change Concerns (10 minutes) • PGR: Using plant genetic resources for adaptation: options and opportunities (10 minutes) • Discussion 	<p>Chair: Irene Hoffmann</p> <p>Michel Naves</p> <p>Toby Hodgkin</p>	Sakura Room/ Ground Floor
3:30-4:30 Walk/Coffee	Walk around Bioversity headquarters and surrounding area to discuss relevant topics and get to know other participants.		
4:30-5:30	<p>ABD Working Group Session3: Roles of Technology, Traditional Knowledge and Local Innovations</p> <ul style="list-style-type: none"> • What is the influence of climate change on technology, TK, and local innovations? • How do technologies, TK, and local innovations relate to adaptation? • How to better integrate technologies, TK and local innovations for future adaptation to CC? 		Sakura Room, Vavilov Room (G15-G16), and Pacioli Room (G29) / Ground Floor
5:42	Departure from Maccaresse-Fregene Train Station		

8:49	Arrival at Maccarese-Fregene Train Station (Departure from Tuscolana Train Station: 8:21)		
9:00-10:00	Plenary: Reflection on Progress from Day 2 Rapporteurs report back on afternoon breakout group discussion from Day 2. Discuss progress toward a conceptual framework.	Chair: Leslie Lipper	Sakura Room/ Ground Floor
10:00-11:00	Plenary: R&D state of the art, methods and tools across scales. <ul style="list-style-type: none"> • PGR: Title TBC • AnGR: Nordic Research Network on Animal Genetic Resources in the Adaptation to Climate Change (10 minutes) • Discussion 	Chair: Louise Jackson Ehsan Dulloo Peer Berg	Sakura Room / Ground Floor
11:00-11:30	Coffee		Cafeteria/ Ground Floor
11:30-12:30	ABD Working Group Session 4: State of the Art, Assessment, Methods and Tools <ul style="list-style-type: none"> • What methods and tools are being used to assess adaptation and effectiveness of adaptation? • What data exists and where is it found? 		Sakura Room, Vavilov Room (G15-G16), and Pacioli Room (G29) / Ground Floor
12:30-2:00	Lunch and Rapporteur Prep Time: During this time, the rapporteurs and chairs of the breakout groups consolidate a short PPT presentation to report back to plenary.		Staff Room and Dining Room/ First Floor
2:00-2:30	Plenary: Groups report back on ABD Working Group Session 4 Discussions ABD Working Group rapporteurs report back to the group on breakout group discussions.	Chair: Louise Jackson	Sakura Room / Ground Floor
2:30-3:30	Plenary Session: Incentive mechanisms, policies, institutions and governance <ul style="list-style-type: none"> • AnGR : Incentive mechanisms- policies- institutions and governance for climate change and agriculture (10 minutes) • PGR : Promoting sustainable use of PGR under 	Chair : Unai Pascual Dominic Moran Leslie Lipper	Sakura Room/ Ground Floor

	<p>climate change: institutional and policy options(10 minutes)</p> <ul style="list-style-type: none"> • Discussion (Key Institutions and Evolving Policies and Priorities) 		
3:30-4:00	Coffee		Cafeteria/ Ground Floor
4:00-5:30	<p>Plenary: Remote Roundtable of Experts- Incentive Mechanisms, Policies, Institutions, and Governance. (GotoMeeting format)</p> <ul style="list-style-type: none"> • Title TBC • Managing risk in the context of climate change. • The tension between markets and adaptation in West and Southern Africa • Title TBC • Discussion (Key Institutions and Evolving Policies and Priorities) 	<p>Chair: Adam Drucker</p> <p>Kamal Bawa</p> <p>Salvatore di Falco</p> <p>William Moseley</p> <p>Fabrice de Clerk</p>	Sakura Room/ Ground Floor
4:45-5:30			
5:42	Departure from Maccaresse-Fregene Train Station		

Day 4 – Friday 11 October 2013			
8:49	Arrival at Maccaresse-Fregene Train Station (Departure from Tuscolana Train Station: 8:21)		
9:00-9:30	Plenary: Reflection on Progress from Day 3	Chair: Adam Drucker	Sakura Room/ Ground Floor
9:30-10:30	<p>Plenary: Future requirements in Research(Science-Policy – Development Interface)</p> <ul style="list-style-type: none"> • What have experts identified as critical gaps? • What has been covered in this workshop? • Links to Institutional Perspectives 	<p>Chair: Roswitha Baumung</p> <p>Mary Thompson</p> <p>ITPGRFA- TBC</p> <p>Damiano Luchetti (CGRFA)</p> <p>IFAD-TBC FAO-CSA –TBC</p>	Sakura Room/ Ground Floor

		WFP-TBC Diversitas- TBC	
10:30-11:00	Coffee		Cafeteria/ Ground Floor
11:00-12:30	Plenary: Meeting Reflections and Moving Forward <ul style="list-style-type: none"> Reflection on main differences between PGR and AnGR (synergies, lessons learned, etc.) What remains to be addressed? 	Chair: Ehsan Dulloo	Sakura Room/ Ground Floor
12:30-2:00	Lunch		Staff room and Dining Room/ 1 st Floor
2:00-3:00	ABD Working Group Session 5: Reflections and Moving Forward (Conceptual Framework Development) <ul style="list-style-type: none"> What are the key messages learned? Core elements of a conceptual framework ? Key issues across themes? What future research is required? What are the opportunities for applying a common conceptual framework? 		Sakura Room, Vavilov Room (G15-G16), and Pacioli Room (G29) / Ground Floor
3:00-3:30	Coffee		Cafeteria/ Ground Floor
3:30-4:00	Plenary : Reflections from ABD Working Group Sessions <ul style="list-style-type: none"> Groups report back. 	Chair: Ehsan Dulloo	Sakura Room/ Ground Floor
4:00-5:15	Plenary : Plan of Action <ul style="list-style-type: none"> Plan of Action for future research and development activities, implementation strategies, potential for future collaboration in this field between PGR and AnGR; publication of workshop findings, etc. 	Chair: Meeting Organizers	Sakura Room/ Ground Floor
5:15-5:30	Close		
5:42	Departure from Maccaresse-Fregene Train Station		