

2012 Technical Report per Activity

Each Program Participant must provide a small remark against each activity/deliverable to indicate the status of the activity (2-4 sentences required per activity) using the form below. Updated data from the current partners is also required.

CCAFS Theme Led Activities Theme 4.1. Linking Knowledge with Action

1									
				Activity No. 216					
Activity title				Linking Knowledge with Action t	through Regional S	cenario Building			
CCAFS Objectiv (select from drop I		4.1 Explore and jointly apply approa enhance knowledge to action linkage partners at local, regional ar	es with a wide range of	CCAFS Milestone No. from drop list / for further deta 2015 LOGFRAM	ails go to CCAFS 20	elect 12 -	4.1.1 2012		
Activity objectives	Objective 1	To build capacity among three region	al teams of diverse stak	eholders trained in scenarios appr	roaches				
(what the activity aims to achieve)	Objective 2	To engage with policymakers in their	countries/regions and ir	n global climate change processes	i				
Activity statu	s			Partially complete	ed				
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	and NGOs. West Africa (WA	and South Asia (SA		with key policymakers, private sect nerships with researchers and buil ion policies.				
		Туре	Descrip	otion	Year	Status	Format		
		Reports, publications	Africa and West A development ur	of scenarios to 2030 for East frica which examine potential nder a changing climate and ays of economic development	2012	Completed	Document (*.doc, *.odt, *.pdf)		
		Capacity	policy makers and to inform nation plans, regional a food security str with, and infor security proce	al capacity to engage with key d use CCAFS research outputs al adaptation and mitigation gricultural development and ategies, as well as to engage m, global climate and food esses as to critical regional erests/concerns	2012	Partially completed	Other		
Deliverables sta (You may add any unexpecte		Reports, publications	within EA and the and legitimacy established to object that	cribing the scenario process e role that credibility, salience, plays and was (or was not) make scenarios a boundary brings together various stakeholders.	2012	Completed	Document (*.doc, *.odt, *.pdf)		
		Workshops	with national po change and region policy and othe through communi	ng within regional bodies and licymakers regarding climate onal food security issues and r investment opportunities, ication efforts associated with and vulnerability maps.	2012	Completed	Document (*.doc, *.odt, *.pdf)		
		Communication products	A policy brief	on scenarios in East Africa	2012	Partially completed	Document (*.doc, *.odt, *.pdf)		
		Communication products	Video and media	a stories in many newspapers	2012	Completed Video (*.avi, *.mpeg, etc)			
			A	cronym		Name			
		AL Acadomic Institu	tion	Contact Point	Eull Name	University of Oxford	Contact Point Email		
		AI - Academic Institu	uul	Contact Point Joost Vervoort <joost.ver< td=""><td></td><td>c.uk></td><td>Contact Point Email</td></joost.ver<>		c.uk>	Contact Point Email		
				13000 10.13010 30000.001					
			Δ	cronvm		Name			

		4648564					
	RO - Regional Organization	ASARECA	Contact Point Full Name	tural Research in Eastern and Central Africa Contact Point Email			
	NO - Negional Organization		Hezron Mogaka	secretariat@asareca.org			
			TICZTOTI Włogaka	Secretariat@usareca.org			
		Acronym		Name			
		ECARD	West and Central African Council fo	r Agricultural Research and Development			
	RO - Regional Organization		Contact Point Full Name	Contact Point Email			
			Abdulaye Jalloh	abdulaye.jalloh@coraf.org			
		Acronym		Name			
		RWC	Rice-Wheat Consortiun	for the Indo-Gangetic Plains			
Current Partners	CRP - Challenge Research Program		Contact Point Full Name	Contact Point Email			
		Acronym					
	NGO_DO - Non-governmental organization/Development organization	USAID		Name USAID Contact Point Email jufischer@usaid.gov			
			Contact Point Full Name	Contact Point Email			
			Julie Fisher	jufischer@usaid.gov			
		Acronym		Name			
		SID		national Development			
	RO - Regional Organization		Contact Point Full Name	Contact Point Email			
			Ali Hersi	ahersi@sidint.org			
		Acronym		Name			
	DO Designal Operations		Contact Point Full Name	astern Africa			
	RO - Regional Organization		Peter Okubal	Contact Point Email info@panosea.org			
			reter Okubai	inio@panosea.org			

				Activity No. 1	198							
Activity titl	e	Partnership de	velopment and s	strengthening; establishment of participatory action research activities with key partners in CCAFS regions/sites								
CCAFS Objecti (select from drop		4.1 Explore and jointly apply approach enhance knowledge to action linkages partners at local, regional and	with a wide rang		lestone No. ist / for further deta 2015 LOGFRAM	ils go to CCAFS 201	lect 12 -	4.1.2 2012				
Activity objectives what the activity aims to achieve)	Objective 1			_			agement, adaptation ar led, and scaling up mec	_	tion implemented, with engagement a n place			
Activity stat	us											
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity) 4.1.2 PAR established in 13 CCAFS sites by partners and under the leadership of the RPLs. New action research partners established under the social initiative of Theme 4 (e.g. PROLINOVA), with integration of gender-responsive research and innovation. Started Theory of Change process for all CCAFS teams and workshops with local and repartners held in EA and WA and plans made for a South Asia in early 2013 made.												
		Туре		Description		Year	Status		Format			
		Capacity	outcome ma	rs from CCAFS region apping/impact pathv ification of strategie: outcomes	ways exercises	2012	Partially complete	d	Document (*.doc, *.odt, *.pdf)			
Deliverables st (You may add any unexpect		Data	Gender M	&E indicators collect partners	tion by local	2012	Partially complete	d	Database (*.sql, *.mdb, etc)			
			Policy and	d key partner (NGOs	and govits)			Document (*.doc, *.odt, *.po				
		Workshops	strategy o	levelopment worksh arget beneficiaries, and interventions	ops held to research issues	2012	Completed		Document (*.doc, *.odt, *.pdf)			
		Workshops	strategy o	levelopment worksh arget beneficiaries, and interventions	ops held to research issues	2012			Document (*.doc, *.odt, *.pdf)			
		Workshops	strategy o	levelopment worksh arget beneficiaries, and interventions Acronym	ops held to research issues		Name	Institu				
			strategy o	levelopment worksh arget beneficiaries, and interventions	ops held to research issues	GIAR Research		i, Institu	tions and Markets			
		Workshops CRP - Challenge Research Pr	strategy o	levelopment worksh arget beneficiaries, and interventions Acronym	ops held to research issues	GIAR Research	Name					
			strategy o	levelopment worksh arget beneficiaries, and interventions Acronym	ops held to research issues	GIAR Research	Name		tions and Markets Contact Point Email			

	CRP1.1	CCIAD Describe Dragger on Integrated A	gricultural Production Systems for Dry Areas							
CRD. Challange Research Brogram	CRP1.1		· · · · · ·							
CRP - Challenge Research Program		Contact Point Full Name	Contact Point Email							
	Aaramum	,	lame							
	Acronym		e Potential of Aquatic Agricultural Systems for							
	CRP1.3		nd Vulnerable							
CRP - Challenge Research Program		Contact Point Full Name	Contact Point Email							
		Paula Kantor	p.kantor@cgiar.org							
	Acronym	Name								
	CRP3.7	CGIAR Research Program on More M	eat, Milk and Fish – By and For the Poor							
CRP - Challenge Research Program		Contact Point Full Name	Contact Point Email							
		John McDermott	j.mcdermott@cgiar.org							
	Acronym	onym Name								
		CGIAR Gender and Agriculture Research Network								
CRP - Challenge Research Program		Contact Point Full Name	Contact Point Email							
		Jacqui Ashby	j.ashby@cgiar.org							
	Acronym		lame							
			nternational Food Policy Research Institute							
	IFPRI	International Food F	olicy Research Institute							
CG - CGIAR Center	IFPRI	International Food F Contact Point Full Name	olicy Research Institute Contact Point Email							
CG - CGIAR Center	IFPRI									
CG - CGIAR Center	IFPRI	Contact Point Full Name	Contact Point Email							
CG - CGIAR Center	Acronym	Contact Point Full Name Agnes Quisumbing	Contact Point Email							
CG - CGIAR Center		Contact Point Full Name Agnes Quisumbing	Contact Point Email a.quisumbing@cgiar.org							
CG - CGIAR Center CG - CGIAR Center	Acronym	Contact Point Full Name Agnes Quisumbing	Contact Point Email a.quisumbing@cgiar.org							
	Acronym	Contact Point Full Name Agnes Quisumbing N International Lives	Contact Point Email a.quisumbing@cgiar.org lame ock Research Institute							
	Acronym	Contact Point Full Name Agnes Quisumbing International Livest Contact Point Full Name	Contact Point Email a.quisumbing@cgiar.org lame cock Research Institute Contact Point Email							
	Acronym	Contact Point Full Name Agnes Quisumbing International Livest Contact Point Full Name polly ericksen	Contact Point Email a.quisumbing@cgiar.org lame cock Research Institute Contact Point Email							
	Acronym ILRI	Contact Point Full Name Agnes Quisumbing International Livest Contact Point Full Name polly ericksen	Contact Point Email a.quisumbing@cgiar.org lame cock Research Institute Contact Point Email p.ericksen@cgiar.org							

Current Partners

	ICRAF	World Agro	oforestry Centre			
CG - CGIAR Center		Contact Point Full Name	Contact Point Email			
		henry neufeldt	h.neufeldt@cgiar.org			
	IWMI	International Water	r Management Institute			
CG - CGIAR Center		Contact Point Full Name	Contact Point Email			
	ICRISAT	International Crops Research	Institute for the Semi-Arid Tropics			
CG - CGIAR Center		Contact Point Full Name	Contact Point Email			
		Lieven Claussens	l.claussens@cgiar.org			
	CARE		CARE			
organization/Development organization		Contact Point Full Name	Contact Point Email			
		Phil Franks	pfranks@careclimatechange.org			
	WVI	World Visio	on International			
organization/Development organization		Contact Point Full Name	Contact Point Email			
		Oxfan	n America			
organization/Development organization		Contact Point Full Name	Contact Point Email			

						Activity No.	249							
Activity title				Develop			pacity Building in Ge	nder-S	Sensitive 'Clir	mate Smart Agricu	ture' Strateg	gies		
CCAFS Objectiv (select from drop l			Explore and jointly apply approach nance knowledge to action linkages partners at local, regional and	with a wide r								4.1.3 2012		
Activity objectives	Objective 1	To id	dentify key CCAFS gender-related re	search quest	ions; ref	fine appropriat	e tools/methods for	resear	rch on gende	er and social differe	entiation.			
(what the activity aims to achieve)	Objective 2	To b	ouild capacity in the 3 CCAFS regions	for undertal	ding clim	nate change an	d gender-focused re	search	1.					
Activity statu	s					Partially completed								
Insert a small remark to status of the acti (2-4 sentences required p	vity.	Ge	L.3 A workshop for the CGIAR gender and agriculture network was held to identify opportunities for collaboration in gender-responsive research. A CCAFS ender Technical Advisory group was established. Key gender-related research questions were established. The IMPACT survey methodology was modified IPACT light) and field-tested to collect gender-disaggregated agriculture information at the household level. Training and awareness on climate change and gender for nearly 2000 female leaders in several districts of Bihar.											
			Туре		Description	,		Year	Stat			Format		
		Canacity				researcner on F				Completed			Other	
		Reports publications				onduct researc	n on gender,							
						sseminate a tra Climate Chang			2012 Con		ed	D	Document (*.doc, *.odt, *.pdf)	
Deliverables sta (You may add any unexpecte			Workshops		CAPRI-CCAFS workshop to stre capacity of the CGIAR and partn CAPRI-CCAFS working p				2012	Complet	ed	D	Document (*.doc, *.odt, *.pdf)	
			Reports, publications				paper	2012		Partially com	Partially completed	D	Document (*.doc, *.odt, *.pdf)	dt, *.pdf)
			Reports, publications	Worki	ng pape	ng papers by gender grant recipients 2012			2012	Partially completed		D	Document (*.doc, *.odt, *.pdf)	
					,	Acronym				Nai	ne			
						FAO			UN	Food and Agricu	ılture Orga	anizatio	on	
			NGO_DO - Non-governme	ental										
			organization/Development org	ganization			Contact Point						tact Point Email	
							Marjaliisa Tap	iobist	trom		Mar	jaliisa.T	Tapiobistrom@fao.org	
					,	Acronym				Naı				
						Contact Point	Cull No.	ama	Jahangirnaga	ir Universi		tact Point Email		
			AI - Academic Institution	וות			Contact Point	ruli IV	ame			Cont	tact Point Email	
					ı	Acronym				Nai	ne			
										Makerere				
			AI - Academic Institution	on			Contact Point	Full Na	ame			Cont	tact Point Email	

	Acronym		Name							
	KU	Kathman	ndu University							
AI - Academic Institution		Contact Point Full Name	Contact Point Email							
	Acronym	1	Name							
	SARI	Savanna Agricultu	ural Research Institute							
NARES - National agricultural research										
and extension services		Contact Point Full Name	Contact Point Email							
	Acronym	r	Name							
	NaLIRRI	National Livestock Re	sources Research Institute							
NADEC National and advantage										
NARES - National agricultural research and extension services		Contact Point Full Name	Contact Point Email							
	Acronym		Name							
	CRP2	Research								
CRP - Challenge Research Program		Contact Point Full Name	Contact Point Email							
		Ruth Meinzen-Dick	r.meinzen-dick@cgiar.org							
	IWMI	IWMI International Water Management Institute								
CG - CGIAR Center		Contact Point Full Name	Contact Point Email							
	ICRISAT	International Crops Research	Institute for the Semi-Arid Tropics							
CG - CGIAR Center		Contact Point Full Name	Contact Point Email							
	ILRI	International Lives	stock Research Institute							
CG - CGIAR Center		Contact Point Full Name	Contact Point Email							
	ICRAF	World Agre	oforestry Centre							
CG - CGIAR Center		Contact Point Full Name	Contact Point Email							
		Pa	athikrit							
NGO_DO - Non-governmental										
organization/Development organization		Contact Point Full Name	Contact Point Email							
	IUCN		or Conservation of Nature							
Other		Contact Point Full Name	Contact Point Email							

Current Partners

			activity No. 250								
Activity title		Engagement and communication approaches, knowledge networks and farmers'and regional partner organizations strengthened									
CCAFS Objective (select from drop list)		4.1 Explore and jointly apply approaches and methods that enhance knowledge to action linkages with a wide range of partners at local, regional and global levels	4.1.4 2012 (1)								
Activity objectives (what the activity aims to achieve)	Objective 1	Civil society partners (e.g. farmers' organizations) and regiona strategies	FS research outputs being	used to inform national and regional							
Activity statu	ıs		Completed								
Insert a small remark to status of the act (2-4 sentences required p	ivity.	4.1.4 (1) Many new partnerships were formed i centers involved in a farm TV show in East Afric partners, etc.). Numerous partners were supporter in South Asia particularly on climate sm	ca, policy and capacity strengthening of din climate negotiation strategies and	engagemer d meetings	nts with farmers organ , e.g. high level engage	izations and climate smart village ement of policy makers and scientists					
		Туре	Description Year		Status	Format					

	Workshops	with CG and workshop CCAFS re informing	ning and communica d outside partners; R is held, including poli esearch results disser g national and region and mitigation strate	egional partner cymakers, and ninated and al adaptation	2012	Completed	Blogpost		
Deliverables status (You may add any unexpected deliverable)	Capacity		egotiators trained an d global climate char		2012	Completed	Video (*.avi, *.mpeg, etc)		
	Reports, publications	relevant for	aper on social learnir or CCAFS across CG c king paper linking lar cconomic data from C	enters; CCAFS- ndscape health	2012	Partially completed	Document (*.doc, *.odt, *.pdf)		
	Communication products	Regional	l strategy documents	, briefs, blogs	2012	Completed	Document (*.doc, *.odt, *.pdf)		
			Acronym		Name				
			CRP5		CGIAR Resear	ch Program on Water, La	on Water, Land and Ecosystems		
	CRP - Challenge Research Pro	gram		Contact Point I					
	- J								
			Acronym			Name			
			ICRAF			World Agroforestry Cer	tre		
	CG - CGIAR Center			Contact Point F	Full Name		Contact Point Email		
			Acronym			Name			
			Mediae		Private	communications/TV pro	duction firm		
					Contact Point Email				
	Other	Other			Full Name		Contact Point Email		

Acronym Name CIAT Centro Internacional de Agricultura Tropical **Current Partners** CG - CGIAR Center **Contact Point Full Name Contact Point Email** Acronym Name IFPRI International Food Policy Research Institute **Contact Point Full Name** CG - CGIAR Center **Contact Point Email** Acronym Name International Water Management Institute IWMI CG - CGIAR Center **Contact Point Full Name Contact Point Email** Acronym Name ICRISAT International Crops Research Institute for the Semi-Arid Tropics CG - CGIAR Center **Contact Point Full Name Contact Point Email** ILRI International Livestock Research Institute CG - CGIAR Center Contact Point Full Name **Contact Point Email** ICRAF World Agroforestry Centre CG - CGIAR Center **Contact Point Full Name Contact Point Email** WorldFish Worldfish CG - CGIAR Center **Contact Point Full Name Contact Point Email** Indian Farmers Fertiliser Cooperative Limited IFFKO RO - Regional Organization **Contact Point Full Name Contact Point Email** EAC East African Community RO - Regional Organization **Contact Point Full Name Contact Point Email** ECOWAS Economic Community of West African States RO - Regional Organization **Contact Point Full Name Contact Point Email** ASARECA Association for strengthening Agricultural Research in Eastern and Central Africa RO - Regional Organization **Contact Point Full Name** CORAF Conseil Ouest et Centre Africain pour la Recherche et le Developpement Agricoles RO - Regional Organization Contact Point Full Name **Contact Point Email** INSAH Institut du Sahel RO - Regional Organization **Contact Point Email Contact Point Full Name**

IIFD

IDS

UBC

Contact Point Full Name

Contact Point Full Name

Contact Point Full Name

ARI - Advanced Research Institution

ARI - Advanced Research Institution

AI - Academic Institution

International Institute for Environment and Development

Institute of Development Studies

University of British Columbia

Contact Point Email

Contact Point Email

Contact Point Email

	HIMCCA	Himalayan Allia	alayan Alliance for Climate Change			
Select a partner type.		Contact Point Full Name	Contact Point Email			
	NARC	Nepal Agricul	tural Research Council			
Select a partner type.		Contact Point Full Name	Contact Point Email			
		IFFCC) Foundation			
Select a partner type.		Contact Point Full Name	Contact Point Email			

			I	Activity No.	251							
Activity title		Landhealth and local adaptive capacity										
CCAFS Objectiv (select from drop I		4.1 Explore and jointly apply approaches enhance knowledge to action linkages w partners at local, regional and g	ith a wide range of		ilestone No. list / for further deta 2015 LOGFRAMI	ils go to CCAFS 20	elect 12 -	4.1.4 2012 (2)				
Activity objectives (what the activity aims to achieve)	Objective 1	Joint methods development with AFSIS (i food security and opportunities for clima		team and testing with site partners, linking biophysical and socioeconomic data to better understand drivers of land degradation and culture action								
Activity statu	s			Partially complete								
Insert a small remark to status of the act (2-4 sentences required p	ivity.	4.1.4 (2) Local partners received	4.1.4 (2) Local partners received training in land health surveillance methods in all CCAFS EA sites; data collected and is being analyzed and approach linking socioeconomic and biophysical data being developed.									
		Туре		Description		Year	Status	Format				
Deliverables status (You may add any unexpected deliverable)		Communication products		FS/ICRAF work S/AFSIS brief, I		2012	Partially completed	Blogpost				
		Capacity	Local partners tra landhealth surv			2012	Completed	Database (*.sql, *.mdb, etc)				
		Model tools and software	Improved metho	ods for analysis		2012	Partially completed	Document (*.doc, *.odt, *.pdf)				
			A	cronym			Name					
				NARO		Nation	nal Agricultural Research	gricultural Research Organization				
		NARES - National agricultural re and extension services			Contact Point F	ull Name		Contact Point Email				
				KARI		Ken	Name nya Agricultural Research	h Institute				
		NARES - National agricultural re		10 111		Ken	iya Agricaltarar Nescarei	motitute				
		and extension services			Contact Point F	ull Name		Contact Point Email				
Current Partne	ers											
			А	cronym			Name					
				ICRAF			World Agroforestry Co					
		CG - CGIAR Center			Contact Point F Tor Vage			Contact Point Email t.vagen@cgiar.org				
					TOT Vagi	LII		t.vagen@cgial.01g				
			А	cronym			Name					
				CRP5		CGIAR Research	ch Program on Water, L	and and Ecosystems				
		CRP - Challenge Research Pro	ogram		Contact Point F			Contact Point Email				
					Leigh Winov		L.A.WINOWIECKI@CGIAR.ORG					



2012 Technical Report per Activity

Each Program Participant must provide a small remark against each activity/deliverable to indicate the status of the activity (2-4 sentences required per activity) using the form below. Updated data from the current partners is also required.

CCAFS Theme Led Activities Theme 4.2. Assemble Data and Tools for Analysis and Planning

Activity title)	CCA	FS baselines and site characterization	onsexis	sting and new	i new regions								
CCAFS Objectiv (select from drop)			4.2 Assemble data and tools for ana	alysis and	d planning		Milestone No. p list / for furthe 2015 LOGI	er de	etails go to CCAFS ME sheet)	(select S 2012 -		4.2.1 2012 (1)		
Activity objectives	Objective 1	Fina	alize and make available reports from	m housel	hold, village ar	nd organisa	ational baseline	surv	eys in all three t	arget re	gions			
(what the activity aims to	Objective 2	Pub	lish a journal article synthesizing the	e results	of all baseline	surveys								
achieve)	Objective 3	Mal	ke available a CCAFS report synthesi	izing the	baseline surve	ey results								
Activity statu	ıs		Partially completed											
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity)			Baseline data collection at household and village levels at all 15 CCAFS, in 3 regions and 12 countries has been completed, though there were delays in touth Asia due to the late determination of core sites. This resulted in the need to re-collect data at two sites. At these sites organisation baseline data collection is still ongoing. Reports for 12 sites are finalized and made available - the new site reports from the three levels will come online soon. One journal article has been published and two additional articles are being written by CCAFS, with several others being written by groups not directly involved in data collection. A household synthesis report of the baseline survey results had been completed but needs to be revised in light of the new SA core sites. A synthesis across all sites and all three levels was delayed by site changes and will be completed in 2013. Site atlases are being completed in early 2013.										ata ne	
			Туре		De	scription			Year		Status	;	Format	
Deliverables status (You may add any unexpected deliverable)			Data	Data from			ne surveys will be				Partially comple	eted	Spreadsheet (*.xls, *.ods)	
			Reports, publications		ournal article a h be prepared base		data from the 2013			Completed		Document (*.doc, *.odt, *.pdf)		
			Other		Maps a	nd site atla	eses	2012 Partially c			Partially comple	eted	Document (*.doc, *.odt, *.pdf)	
					Ac	ronym					Nam	e		
						University of Reac							Services Centre	
			AI - Academic Institution	on		Contact Point Full Name				,			Contact Point Email	
			711 / readerine institution	0		CO			Carlos Barahona			c.e.barahona@reading.ac.uk		
							Carro	, ,				c.e.baranona@reaumg.ac.uk		
					Δα	ronym					Nam	Name		
						KARI			Kenyai	n Agric		Research Institute, Katumani		
			and extension service	25			Contact P	oin	t Full Name				Contact Point Email	
									angangi				cmuoti71@yahoo.com	
					Ac	ronym					Nam	e		
					11	NSAH					Institut d	u Sahe	·I	
			RO - Regional Organizat	tion			Contact P	oin	t Full Name				Contact Point Email	
							Kasso	oum	Dieye				khassdieye@yahoo.fr	
						ronym					Nam			
					1	CRAF				World	Agroforestry	Centr		
			CG - CGIAR Center						t Full Name				Contact Point Email	
							Joas	h N	1ango				j. mango@cgiar.org	
					Ac	ronym					Nam Masono Ur		24	
			AI - Academic Institution	on			Contact B	oin	t Full Name		Maseno Ur	iiversit	Contact Point Email	
			Ai - Academic instituti	UII					yango				leahonyango@gmail.com	
							Ledii	Uil	yango				icanonyango@gillall.com	

	Acronym	,	lame
DOL DOLLED DATE IN THE STATE OF	MARIL		roved Livelihoods-Ethiopia
PRI - Private Research Institution		Contact Point Full Name	Contact Point Email
		Solomon Desta	solomon.desta82@gmail.com
	Acronym		Name
	BCAS	Bangladesh Centre	for Advanced Studies
ARI - Advanced Research Institution		Contact Point Full Name	Contact Point Email
		Aminur Rahman	Aminur.rahman@bcas.net
	Acronym	,	lame
	CEAPRED	Center for Environmental and Agricultural	Policy Research, Extension and Developme
ARI - Advanced Research Institution		Contact Point Full Name	Contact Point Email
		Krishna Shrestha	krishna.shrestha@ceapred.org.np
	Acronym		Name
	NARO	National Agricultural Res	search Organization - Uganda
NARES - National agricultural research and extension services		Contact Point Full Name	Contact Point Email
		Drake Mubiru	dnmubiru@kari.go.ug
		State Mastra	allinabil ag karingolag
	Acronym		Name
	SARI		search Institute (Tanzania)
NARES - National agricultural research			
and extension services		Contact Point Full Name	Contact Point Email
		Charles Lyamchai	lyamchai@yahoo.com
	Acronym	· ·	lame
		University of	f Dar es Salaam
AI - Academic Institution		Contact Point Full Name	Contact Point Email
Al Academic institution			Contact I out Email
		Pius Yanda	nvanda@gmail.com
		Pius Yanda	pyanda@gmail.com
	Acronym		pyanda@gmail.com
	Acronym		lame
Al - Academic Institution	Acronym		
AI - Academic Institution	Acronym	Makerer Contact Point Full Name	lame re University Contact Point Email
AI - Academic Institution	Acronym	Makere	lame re University
AI - Academic Institution	Acronym	Makerer Contact Point Full Name Florence Kyazze	lame re University Contact Point Email
Al - Academic Institution		Makerer Contact Point Full Name Florence Kyazze	Name Te University Contact Point Email fbirungikyazze@agric.ac.ug
Al - Academic Institution and extension services	Acronym	Makerer Contact Point Full Name Florence Kyazze	Name Ye University Contact Point Email fbirungikyazze@agric.ac.ug
	Acronym	Makerer Contact Point Full Name Florence Kyazze	Name Te University Contact Point Email fbirungikyazze@agric.ac.ug Name herche Agronomique du Niger
	Acronym	Makerer Contact Point Full Name Florence Kyazze Institut National de la Rec Contact Point Full Name	Name Te University Contact Point Email fbirungikyazze@agric.ac.ug Name herche Agronomique du Niger Contact Point Email
	Acronym	Makerer Contact Point Full Name Florence Kyazze Institut National de la Rec Contact Point Full Name Moussa Boureima	Name Te University Contact Point Email fbirungikyazze@agric.ac.ug Name herche Agronomique du Niger Contact Point Email
	Acronym INRAN	Makerer Contact Point Full Name Florence Kyazze Institut National de la Rec Contact Point Full Name Moussa Boureima	Contact Point Email fbirungikyazze@agric.ac.ug Name herche Agronomique du Niger Contact Point Email moussaboureima@yahoo.fr
	Acronym INRAN Acronym	Makerer Contact Point Full Name Florence Kyazze Institut National de la Rec Contact Point Full Name Moussa Boureima	Contact Point Email fbirungikyazze@agric.ac.ug Name herche Agronomique du Niger Contact Point Email moussaboureima@yahoo.fr

Current Partners

Activity title		MarkSim version 2 and associated tools,	development and	testing; revision of MarkSim	GCM with CMIP5 data					
CCAFS Objectiv (select from drop I		4.2 Assemble data and tools for analy	ysis and planning	CCAFS Milestone No. from drop list / for furthe 2015 LOG		elect 12 -	4.2.1 2012 (2)			
	Objective 1	Phase 1: Revise the FORTRAN module G	CM4 to incorporate	e data for up to five new AR4	climate models, and to	revise outputs to allow the me	ean of all GCM outputs to be downscaled			
	Objective 2	Phase 1: Work on a point and click progr models, and one of the three AR4 emissi								
Activity objectives	Objective 3	Phase 2: Expand the calibration data set	of daily historical r	ainfall data						
(what the activity aims to achieve)	Objective 4	Phase 2: Model modifications and cluste	aring of climate two	es with new narameter surfa	rac					
ucilieve)	Objective 4	Thase 2. Woder modifications and cluste	ing or climate typ	es with new parameter suna	003					
	Objective 5	Phase 2: Produce model version to run a	ase 2: Produce model version to run as an EXE and DLL in the DSSAT crop modeling suite							
	Objective 6	Phase 2: Produce start-of-season date su	hase 2: Produce start-of-season date surfaces for the six climate models in MarkSim GCM, plus the average, for the three emission scenarios used in the IPCC's Fourth Assessment Ru							
Activity statu	s			Partially com	pleted					
Insert a small remark to status of the acti (2-4 sentences required p	vity.	and is now available from the w was decided to revamp the tem	ebsite. Work c perature simula	ontinues on incorporati ation routines in MarkSi	ng CMIP5 climate d m v2 as well as the	ata, whcih should be cor	ion of MarkSim was also developed npleted in 2013. during the year, it sult of this and the amount of data in early 2014.			
		Туре		Description	Year	Status	Format			
		Model tools and software		kSim2 software	2012	Partially completed	Other			
Deliverables sta		Other	So	ftware manual	2012	Partially completed	Document (*.doc, *.odt, *.pdf)			
(You may add any unexpected	d deliverable)									
		Reports, publications	Report on the	e software development process	2012	Completed	Document (*.doc, *.odt, *.pdf)			
				Acronym		Name				
						Waen Associates				
		PRI - Private Research Instit	ution	Contact P	oint Full Name		Contact Point Email			
				Pet	er Jones		p.jones@cgiar.org			
				100	er Jones		p.jones@egian.org			
Current Partne	ers									
				Acronym		Name				
					Universit	y of Reading Statistical Se	ervices Centre			
		AI - Academic Institutio	n	Contact P	oint Full Name		Contact Point Email			
				Rog	er Stern		r.d.stern@reading.ac.uk			

	Activity No. 253								
Activity title	Activity title Regional reports evaluating different climate models for the new target regions, from the perspective of agricultural impacts modeling								
CCAFS Objectiv		4.2 Assemble data and tools for analysis and planning from drop list / for further details go to CCAFS 2012 - 4.2.1 2012 (2) 2015 LOGFRAME sheet)					4.2.1 2012 (2)		
Activity objectives Objective 1 Objective 1 An outline of current trends in climate and extreme events (such as the frequency of hot and cold days and nights, heavy rainfall events, and droughts) in each region, from the middle-the twentieth century onwards, as far as this is possible.									
(what the activity aims to achieve) Objective 2 Objective 3 An evaluation of the CMIP coupled climate models' climatologies for the two regions, and assessment of their projections from the 2030s to the 2090s, in the light of indicators and diagnostics that are related to agricultural production impacts and food security considerations.							the 2090s, in the light of indicators and		
Activity statu	ıs			Completed	ı				
Insert a small remark to status of the act (2-4 sentences required p	ivity.	Work is underway on a report	t for Latin Americ	a (INPE) and SE Asia (Un already completed for	-	•	13, as companion reports to those		
		Туре	D	escription	Year	Status	Format		
Deliverables sta (You may add any unexpecte		Reports, publications		h region, made available CCAFS website	2013	Select a status	Select a format		

		Acronym	N	ame
			University	of Cape Town
	AI - Academic Institution		Contact Point Full Name	Contact Point Email
			Jose Marengo	jose.marengo@inpe.br
Current Partners				
		Acronym	N	ame
				unc
				ty of Oxford
	AI - Academic Institution			
	Al - Academic Institution		Universi	ty of Oxford

Activity title		Soil profile characteristics database deve	elopment and refine	ment, for use in agricul	ural impact modeling wo	rk				
CCAFS Objectiv (select from drop)		4.2 Assemble data and tools for analy	sis and planning		No. rther details go to CCAFS .OGFRAME sheet)	(select 2012 -		4.2.1 2012 (3)		
Activity objectives	Objective 1	Phase 1: the objective is to obtain locatic resource management. In the second phase, the objectives are to attributes and crop model specific soil pa database for crop model applications, un	complete the conv	version of the WISE glob erent options to conver	al soil profile data set, as t soil texture into soil wat	well as to develop o	ata quality co			
(what the activity aims to achieve)	Objective 2	Phase 2: Complete the conversion of the	· WISE global soil pro	ofile data set developed	by ISRIC; Develop data q	uality control proce	dures for crop	model specific soil parameters		
	Objective 3	Phase 2: Explore options to develop gen	ase 2: Explore options to develop generic soil profiles based on the current profiles of the WISE soil database							
	Objective 4	Phase 2: Explore options for applying the suitable for agricultural models	e methodology that	was developed for the	WISE 3.1 database to con-	ver the more generi	c Harmonized	World Soil Databse (HWSDB) into a format		
Activity statu	15		Partially completed							
Insert a small remark to status of the act (2-4 sentences required)	ivity.	The WISE conversion has been completed, a full database is available for download, and a report has been written. Work continues on generic profi for agricultural modelling purposes, and on some uncertainty analysis to be completed in 2013, with a no-cost extension.								
		Туре	D	escription	Year	Sta	tus	Format		
		Other	An updated	soil profile database	2012	Complet	ed	Spreadsheet (*.xls, *.ods)		
		Other		il database that contain ric soil profiles	s 2012	Complet	ed	Plain text (*.txt)		
		Reports, publications		ion that describes the ethods that were used				Document (*.doc, *.odt, *.pdf)		
Deliverables sta (You may add any unexpecte		Reports, publications	Uncertainty anal	lysis of soil input selecti	on 2012	Partially com	pleted	Select a format		
		Select a data type				Select a st	atus	Select a format		
		Select a data type				Select a st	atus	Select a format		
		Select a data type				Select a st	atus	Select a format		
			Δ.	cronym		Nie	ame			
			А	Cronym		Washington S		rsity		
		AI - Academic Institution	n	Conta	ct Point Full Name	vvusg.com	rate office	Contact Point Email		
					it Hoogenboom		ger	rit.hoogenboom@wsu.edu		
Current Partne	arc									
current rattill			А	cronym		Na	ame			
				IFPRI	Inter	national Food P	olicy Resear	rch Institute		
		CG - CGIAR Center			ct Point Full Name			Contact Point Email		
					Jawoo Koo			j.koo@cgiar.org		

					Activ	vity No. 255					
						,					
Activity title		Glol	bal Mapping of Intensive Livestock Pr	oduction Syst	ems						
CCAFS Objectiv (select from drop le			4.2 Assemble data and tools for anal	ysis and planr				details go to CCAFS 2	select 012 -		4.2.1 2012 (3)
Activity objectives	Objective 1	То	evaluate different approaches for ma	apping intensi	ve livesto	ck production	systems in th	ne CCAFS priority area	as of East Afric	a, West Africa and	d the Indo-Gangetic Plains of South Asia
(what the activity aims to achieve)	Objective 2	То	produce global maps of intensive pro	oduction of all	the majo	r livestock spe	cies and type	es (chickens, ducks, p	igs, beef and d	airy cattle).	
Activity statu	s					Pa	artially comp	leted			
Insert a small remark to status of the acti (2-4 sentences required p	vity.	Databases have been assembled, and working papers on livestock intensiciation in the CCAFS regions (cattle, chickens and pigs) and on the g sector (production estimates by coutnry and production system) are close to completion. The work is a little delayed, but the working paper be published in the first half of 2013.									
			Туре		Desc	cription		Year	:	Status	Format
			Reports, publications	A review of existing approaches to mapping intensive livestock production				2012	Com	pleted	Document (*.doc, *.odt, *.pdf)
			Data			of intensive pro		2012	Partially	completed	GIS raster (ESRI Grids, GeoTiff, etc)
Deliverables sta (You may add any unexpected			Data	assembled	for East A	sets and GIS m Africa, West Al angetic Plains	frica and	2012	Com	pleted	Database (*.sql, *.mdb, etc)
			Reports, publications	estimates production	of the dis	FS) report deso stribution of in ted livestock sp t Africa, and th	ntensive pecies in	2012	Partially	completed	Document (*.doc, *.odt, *.pdf)
					Acre	onym				Name	
						AO		Food and Ag	griculture Or		ne United Nations
			ARI - Advanced Research Inst	titution			Contact Poi	nt Full Name			Contact Point Email
							Tim Ro	obinson			tim.robinson@fao.org
Current Partne	ers	Acronym Name									
						LRI		Inte	rnational Liv	estock Researd	ch Institute
			CG - CGIAR Center			,	Contact Poi	nt Full Name			Contact Point Email
							An Not	enbaert		ā	a.notenbaert@cgiar.org

	Activity No. 256								
Activity title	Activity title Refinement of global cropland extent data layers								
CCAFS Objectiv (select from drop		4.2 Assemble data and tools for analysis and planning CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet) 4.2.1 2012 (3)							
Activity objectives	Objective 1	· ·	atasets; To build a continuting international collaboration	lidation dataset by encouraging participants to contribute geo-tagged on via Geo-Wiki in the collection of data related to land cover, land-use					
(what the activity aims to achieve)	Objective 2	calibration data will be collected with the geo-wiki land cove	r validation tool via gaming. An initial game to collect di cly on facebook. The aim is to improve the game over th	e following weeks and to then develop it into a multi-mass player					
Activity statu	ıs		Completed						
Insert a small remark to status of the act (2-4 sentences required)	ivity.	A hybrid land-cover product has been produced a	and is now being used by several organisation validation of different land-cover produ	ns (e.g. IFPRI). The geo-wiki website continues to provide cts.					

	Туре		Description	Year	Status	Format	
	Other		Geo-Wiki website	2011	Completed	Other	
	Reports, publications	Report on th	he workshop held in June 2011	2011	Completed	Document (*.doc, *.odt, *.pdf)	
Deliverables status (You may add any unexpected deliverable)	Other	using data	ved calibrated cropland map collected from the geo-wiki game LandSpotting	2013	Partially completed	d GIS vector (shapefiles)	
	Data	improved	t hybrid product will be an hybrid land cover map over a special focus on rangelands	2012	Completed	GIS vector (shapefiles)	
			Acronym		Name		
			IIASA	Internat	ional Institute for App	olied Systems Analysis	
Current Partners	ARI - Advanced Research Inst	titution	Contact Po	oint Full Name		Contact Point Email	
			Stef	fen Fritz		fritz@iisa.ac.at	

Activity title		Dev	eloping generic tools for characteri	zing agricultural syste	ems for climate and global ch	nange studies (Impact I	Lite)				
CCAFS Objectiv (select from drop)		4	1.2 Assemble data and tools for ana	llysis and planning	CCAFS Milestone No. from drop list / for further 2015 LOGF		select 012 -	4.2.1 2012 (3)			
	Objective 1	The are t		ent the IMPACT lite to	ool for use in characterising t	the dynamics of liveliho	ood activities in divers	e agricultural production systems. Specific objectives			
Activity objectives (what the activity aims to achieve)	Objective 2	Dev	elop databases of production syste	ms and web-based m	netadatabases of the data col	llected to facilitate dat	a exchange amongst s	cientists and interested parties.			
	Objective 3	Colle	ollect household level information from at least 200 households from well targeted sites in the CCAFS regions for use in studies planned by the CCAFS themes								
Activity statu	is		Completed								
Insert a small remark to status of the act (2-4 sentences required p	ivity.	be made publically available in 2013. Several papers are being written up that analyse the data at a regional level, and plans have been drawn									
					i alialysis to the uatalli,	, including hosueh	odl modelling wor	k.			
			Туре		escription	, including hosueh	odl modelling wor	rk. Format			
			Type Model tools and software	An agricultural h tool that can different platfi							
Deliverables st (You may add any unexpecte				An agricultural h tool that can different platfi doo A database and	escription nousehold data collection be run on a variety of orms, with appropriate	Year	Status	Format			
			Model tools and software	An agricultural h tool that can different plath door A database and household dat	nousehold data collection be run on a variety of orms, with appropriate cumentation	Year 2012	Status Completed	Other Database (*.sql, *.mdb, etc)			
			Model tools and software Data	An agricultural h tool that can different platfi dod A database and household database and household database and	nousehold data collection be run on a variety of orms, with appropriate cumentation d meta-database of new ta available on the web	Year 2012 2012	Completed Completed Select a status	Other Database (*.sql, *.mdb, etc) Database (*.sql, *.mdb, etc)			
			Model tools and software Data	An agricultural h tool that can different platfi dod A database and household database and household database and	nousehold data collection be run on a variety of orms, with appropriate cumentation d meta-database of new ta available on the web d meta-database of new ta available on the web	Year 2012 2012	Status Completed Completed Select a statu:	Other Database (*.sql, *.mdb, etc) Database (*.sql, *.mdb, etc)			
	d deliverable)		Model tools and software Data	An agricultural h tool that can different platfi dod A database and household database and household database and	nousehold data collection be run on a variety of orms, with appropriate cumentation d meta-database of new ta available on the web d meta-database of new ta available on the web	Year 2012 2012	Status Completed Completed Select a statu:	Other Database (*.sql, *.mdb, etc) Database (*.sql, *.mdb, etc)			

Activity title		Impact n	nodel wiki design, development	and testing (Agr	iMod.org)					
CCAFS Objectiv (select from drop l		4.2 As	ssemble data and tools for anal	ysis and planninį	CCAFS Mile from drop lis	t / for further	(s details go to CCAFS 20 RAME sheet)	select 012 -		4.2.1 2012 (3)
Activity objectives (what the activity aims to	Objective 1	Establish	ablish basic website							
achieve)	Objective 2	Further o	rther development of website, content management and partnership building							
Activity statu	s		Completed							
Insert a small remark to status of the act (2-4 sentences required p	ivity.		-	een designed	and created an	d initially p		tline text. Reg	istration a	yet been made publically available. nd security processes have been put s.
			Туре		Description		Year	Sta	itus	Format
			Other	A comprehe	ensive website with features	multiple	2013	Select a s	tatus	Select a format
Deliverables sta										
(You may add any unexpecte	a deliverable)		Reports, publications	Report on	the process of build website	ding the	2013	Select a s	tatus	Select a format
					Acronym			N	ame	
								James Hu	tton Institu	te
Current Partne	ers	A	ARI - Advanced Research Inst	itution		Contact Po	int Full Name			Contact Point Email
						Mike F	Rivington		m	ike.rivington@hutton.ac.uk

	Activity No. 259									
Activity title	1	Livestock production mod	lel intercomparison and imp	provement						
CCAFS Objectiv (select from drop I		4.2 Assemble data and	tools for analysis and plan) , j j	100	elect 12 -	4.2.1 2012 (3)			
	Objective 1			North America, Latin America, Euro and goats if time and resources a		ertain interest in being part	of the work. The major focus should be on			
Activity objectives (what the activity aims to	Objective 2	Draw up a protocol for th purposes.	oraw up a protocol for the intercomparison work, and identify and obtain suitable data sets describing animal performance on a range of diets that can be used for model evaluation urposes.							
achieve)	Objective 3	Oversee and facilitate the appropriate.	Oversee and facilitate the intercomparison process, with simulations run by the groups responsible for the models, if possible. Collate results from the various modeling groups as							
	Objective 4	Convene a small meeting	to present and discuss the	esults and plan the writing up of t	he work					
Activity statu	ıs			Complet	ted					
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	This work is a contr	•	project, and involves interco up, and the comparison wo	•		ck production models. A protocol is ly 2014.			
		Туре		Description	Year	Status	Format			
Deliverables sta (You may add any unexpecte		Reports, publica		ng Paper report and article for submission to a journal	2014	Select a status	Select a format			
		Acronym Name								
						Texas A&M Univers	,			
Current Partne	ers	AI - Acade	mic Institution		oint Full Name		Contact Point Email			
				Luis	Tedeschi		luis.tedeschi@tamu.edu			

Activity No. 260										
Activity title		Data	a management strategy, support tools	, and creating	and maintaining o	ata portals				
CCAFS Objectiv. (select from drop li		4	4.2 Assemble data and tools for analy	sis and plannir		ilestone No. list / for further of 2015 LOGFR	details go to CCAFS 20	elect 112 -		4.2.1 2012 (3)
Activity objectives (what the activity aims to achieve)	Objective 1	То	To create a data management strategy for CCAFS that will assist in handling all data collected by the program							
Activity status	;		Completed							
Insert a small remark to i status of the activ (2-4 sentences required p	vity.	The CCAFS data management strategy was completed and approved by the ISP in October. The supporting material is being finalised and will be released in the first half of 2013.								
			Туре		Description		Year	Sta	tus	Format
			Reports, publications	Data	a management str	ategy	2012	Comple	ted	Document (*.doc, *.odt, *.pdf)
Deliverables sta (You may add any unexpected										
(roa may ada any anexpected	deliverable)		Other	Suppo	ort tools and data	portals	2012	Comple	ted	Select a format
					Acronym			N	ame	
					71010117111				ium office	
			CG - CGIAR Center			Contact Poi	nt Full Name			Contact Point Email
						Michae	l Marus			m.marus@cgiar.org
					Acronym			N	ame	
					CIMMYT		Internation	nal Maize and	Wheat Impro	ovement Center
Current Partne	rs		CG - CGIAR Center			Contact Poi	nt Full Name			Contact Point Email
						Medha	Devare			m.devare@cgiar.org
					Acronym		I forb several		ame	desa Cambra
			AI - Academic Institution			Contact Dai	oniversit nt Full Name	ty of Reading S	otatisticai Ser	Contact Point Email
			AI - ACAGEMIC INSTITUTION				arahona		رما	parahona@reading.ac.uk
						Carios	aranona		c.e.i	our uniona (er cauring.ac.ux

	Activity No. 261									
Activity title	Activity title CCAFS Near-Term Climate Project									
CCAFS Objectiv (select from drop)		4.2 Assemble data and tools for anal	CCAFS Milestone No. from drop list / for further of 2015 LOGFR	details go to CCAFS 20						
Activity objectives	Objective 1	Build a consortium of international part	ners that can compe	te for large grants that addres	ss the general area of	near-term climate change				
(what the activity aims to achieve)	Objective 2	Undertake exploratory research on spec proposals	dertake exploratory research on specific issues associated with near-term climate change to provide early evidence for CCAFS science policy and joint CCAFS - Global Change research posals							
	Objective 3	Provide preliminary analysis of CMIP5 a	vide preliminary analysis of CMIP5 and CORDEX modelling projection over the three current CCAFS focus regions							
Activity status Completed										
Insert a small remark to status of the act (2-4 sentences required p	ivity.	A scoping workshop was held	in early 2012. Pe		during the year ar ehind schedule.	nd work on objectives 2	and 3 is underway, although a few			
		Туре	De	escription	Year	Status	Format			
		Reports, publications		rs, journal articles, and eports on progress	2014	Select a status	Select a format			
Deliverables status (You may add any unexpected deliverable)		Reports, publications		scenario reports for each scus region	2014	Select a status	Select a format			
		Other		for each scenario report journal article	2014	Select a status	Select a format			

		Acronym	Name			
			Universit	y of Cape Town		
Current Partners	AI - Academic Institution		Contact Point Full Name	Contact Point Email		
			Mark New	mark.new@acdi.uct.ac.za		

			Act	tivity No. 262					
Activity title		G-Range (global rangeland model) devel	opment and testing						
CCAFS Objectiv (select from drop I		4.2 Assemble data and tools for anal	ysis and planning	CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet) 4.2.1 2012 (5)					
Activity objectives	Objective 1	The objective of the work is to develop a able to assess the impacts of climate cha		lified spatially-explicit globa	al rangeland model th	at responds to the m	ain climate va	riables (temperature, precipitation) to be	
(what the activity aims to achieve)	Objective 2	With the tuned G-Range model, conduct simulations addressing scenarios regarding climate change in global rangelands given projected climate change through this century.							
	Objective 3	Prepare a manuscript suitable for public	ation reporting resul	ts from syntheses of simula	itions.				
Activity statu	s		Completed						
Insert a small remark to status of the acti (2-4 sentences required p	vity.	·	_	rgely completed and d leting a manuscript on				esting the model with a range of ts on rangelands.	
		Туре	De	scription	Year	Statu	ıs	Format	
		Reports, publications	Manusceipt si	uitable for publication	2012	Partially comp	leted	Select a format	
Deliverables sta (You may add any unexpecte		Model tools and software	G-	Range tool	2012	Complete	d	Other	
		Data	D	ata layers	2012	Complete	d	GIS raster (ESRI Grids, GeoTiff, etc)	
			Ac	cronym		Nar	ne		
				CSU		Colorado Sta	te University	/	
		AI - Academic Institutio	n	Contact Po	oint Full Name			Contact Point Email	
				Rich	Conant		rich.conant@colostate.edu		
Current Partne	ers		Ac	cronym		Nar	Name		
				CSU		Colorado Sta	Colorado State University		
		AI - Academic Institutio	n	Contact Po	oint Full Name			Contact Point Email	
				Rand	all Boone		Randa	all.Boone@ColoState.edu	

	Activity No. 263								
Activity title	,	Demonstrating a generic framework and tools for modeling	resilience of farm households to climate related risk						
CCAFS Objective (select from drop list)		4.2 Assemble data and tools for analysis and planning	CCAFS Milestone No. (self. from drop list / for further details go to CCAFS 2012 2015 LOGFRAME sheet)						
Objective 1 Objective 1 Objective 1 The goal of the project is to develop and demonstrate a framework and tools for modeling livelihood resilience of rural households in the face of climate-related risk, and the impaction of the project is to develop and demonstrate a framework and tools for modeling livelihood resilience of rural households in the face of climate-related risk, and the impaction of the project is to develop and demonstrate a framework and tools for modeling livelihood resilience of rural households in the face of climate-related risk, and the impaction of the project is to develop and demonstrate a framework and tools for modeling livelihood resilience of rural households in the face of climate-related risk, and the impaction of the project is to develop and demonstrate a framework and tools for modeling livelihood resilience of rural households in the face of climate-related risk, and the impaction of the project is to develop and demonstrate a framework and tools for modeling livelihood resilience of rural households in the face of climate-related risk, and the impaction of the project is to develop and demonstrate a framework and tools for modeling livelihood resilience of rural households in the face of climate-related risk, and the impaction of the project is to develop and demonstrate a framework and tools for modeling livelihood resilience.									
Activity objectives (what the activity aims to	Objective 2	1. document a framework for modeling climate resilience of	frural households						
achieve)	Objective 3	2. develop or adapt generic prototype bioeconomic modeling tool(s) for modeling the essential features of livelihood resilience at the farm household level							
	Objective 4	3. Collect household data sets (IMPACTlite) for Makueni (Ke	ni (Kenya) and Borana (Ethiopia) for detailed household moeling in 2013						
Activity statu	ıs	-	Completed						
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity)		in Borana. The model is able to quantify the dy		odel was developed and applied to CCAFS benchmark site of smallholder farmers. In 2013 well-grounded modelling led with Theme 2.					

	Type		Description	Year	Statu	s Format	
	Reports, publications		Brief literature review	2012	Completed	d Document (*.doc, *.odt, *.pdf)	
	Data		ented ImpactLite household ets for Makueni and Borana	2012	Completed	d Database (*.sql, *.mdb, etc)	
	Reports, publications	outcomes	scribing approach, process and of participatory local scenario ment for Makueni and Borana	2013	Select a stat	sus Select a format	
Deliverables status (You may add any unexpected deliverable)	Model tools and software	Generic pi	rototype bioeconomic modeling tool(s)	2013	Select a stat	cus Select a format	
	Other	studies ba participate and if po	and possibly 2 documented case used on CCAFS baseline survey, ory local scenario development ossible preliminary analysis of pactLite household data	2013	Select a stat	us Select a format	
	Reports, publications	Report developing and demonstrating the resilience modeling framework		2014	Select a stat	tus Select a format	
			Acronym		Nan	ne	
			ILRI	Inter	national Livesto	k Research Institute	
Current Partners	CG - CGIAR Center		Contact F	Point Full Name		Contact Point Email	
			Mari	ana Rufino		m.rufino@cgiar.org	

			А	ctivity No. 264						
Activity title		Vulnerability assessments at sub-nation	al level for selected	countries in at least 2 CCAFS re	gions					
CCAFS Objectiv (select from drop)		4.2 Assemble data and tools for anal		CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet) 4.2.1 2012 (5)						
Activity objectives (what the activity aims to	Objective 1	To further explore vulnerabilities to clim	nate change and im	pact on food security at a subre	gional level					
achieve)	Objective 2	To conduct a gap analysis of research or	conduct a gap analysis of research on climate change and the less well-studied aspects of food security							
Activity statu	ıs		Completed							
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity) In 2012 work on the vulnerability component centred on a review of adaptation indicate the continue on adapting the global map of hotspots down to subnation						•				
		Туре	Description		Year	Status	Format			
Palitic reduce ex	•	Reports, publications	Report on impact of different climage change thresholds on vulnerability in one or more CCAFS target regions		2013	Select a status	Select a format			
Deliverables sta (You may add any unexpecte										
		Reports, publications	consequences	providing a review of the of climate change for the ied components of food security	2013	Select a status	Select a format			
				Acronym		Name				
				ILRI		International Livestock Research Institute				
Current Partne	ers	CG - CGIAR Center		Contact Poin			Contact Point Email			
				Polly Er	ricksen		p.ericksen@cgiar.org			

					Activity	/ No. 265				
Activity title		0	antification of regional scenarios usir	ng global inte	grated model					
Activity title		Qu	antineation of regional sections usin	ig global litte	gratea model	,				
CCAFS Objectiv (select from drop li			4.2 Assemble data and tools for anal	ysis and plan			er details go to CCAFS 2 FRAME sheet)	(select 2012 -		4.2.1 2012 (5)
Activity objectives (what the activity aims to achieve)	Objective 1		quantify the qualitative scenarios de DBIOM team.	veloped in the	e CCAFS scen	arios programme for E	East Africa using the IN	ΛΡΑCT model in a	a participatory pro	ocess, closely collaborating with the
Activity statu	s					Complet	ed			
Insert a small remark to i status of the acti (2-4 sentences required p	vity.	т	The East Africa scenarios have	been quan	tified and		port. Two papers ore are being comp		ios process ha	ve been published or submitted,
			Туре	Description		tion	Year	St	tatus	Format
			Workshops	Workshop in Dar es Salaam to focus on quantification of key variables			2012	Comp	leted	Other
	Deliverables status (You may add any unexpected deliverable)		Other	Harmonization of model input and output data			2012	Completed		Other
			Reports, publications	Two papers on the scenarios process and its outputs			2012	Completed		Document (*.doc, *.odt, *.pdf)
					Acrony	rm			Name	
					ILRI		Inte		stock Research	Institute
			CG - CGIAR Center			Contact Po	oint Full Name			Contact Point Email
						Polly	Ericksen		F	o.ericksen@cgiar.org
					Acrony				Name	
Current Partne	ure.				IFPR			national Food	Policy Research	
Current Fartile	:15		CG - CGIAR Center				oint Full Name Nason-D'Croz		DM	Contact Point Email
						Danieliv	nason-D CIUZ		D.IVI.	ASON-DCROZ@cgiar.org
				Acrony	Acronym			Name		
									e for Applied Systems Analysis	
			ARI - Advanced Research Inst	titution		Contact Pe	oint Full Name		Contact Point Email	
						Aman	da Palazzo			palazzo@iiasa.ac.at

	Activity No. 266							
Activity title)	Review of climate change communications and social learning	in climate change					
CCAFS Objectiv (select from drop		4.2 Assemble data and tools for analysis and planning	ct - 4.2.2 2012					
	Objective 1		ase 1: The objective is to review both the current approaches to climate change communications and social learning that are applicable to the developing world and to provide input a strategy development process for future CCAFS engagement in this area.					
Activity objectives	Objective 2	Phase 2: Synthesize the proposed strategic intervention (change) areas identified in the Addis Ababa workshop, fleshing these out, crystallizing their focus, aligning them with one another, extracting the promising actions and ideas needing follow up.						
(what the activity aims to achieve)	Objective 3	Phase 2: Contribute to documentation, e.g. drafting a 'CCAFS brief' (co-authorship), 'position paper' (feedback and input where necessary), 'CCAFS strategy' outlining the key logic and focus of a CCAFS strategy in the area of 'communication and social learning for enhanced climate change decision-making' (feedback and input where necessary).						
	Objective 4	Phase 2: Scope and carry out a systematic review of approach change, food security and agriculture	es and tools to better understand the impact, and w	ays to assess it, of social learning and knowledge sharing in climate				
Activity statu	ıs		Completed					
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity)		in Addis identified strategic intervention areas for CGIAR stocktake, Measuring impact of social learn	or CCAFS and resulted in several activities	nd social learning has been published. An initial workshop being initiated - Sandbox, work on social differentiation, ccience meeting on social learning, etc. The CCAFS brief, a eted. This is a joint T4.1 activity.				

	Туре		Description		Year	Status	Format	
	Workshops	Work	sshop in Addis Ababa formulate strateg		2012	Completed	Other	
	Reports, publications	Systemati	ic review of tools an	d approaches	2012	Completed	Document (*.doc, *.odt, *.pdf)	
Deliverables status	Data		orief and position pa arning and climate cl		2012	Partially completed	Document (*.doc, *.odt, *.pdf)	
(You may add any unexpected deliverable)	Workshops	Second Workshop in Addis to take stock of CGIAR social learning activities			2012	Completed	Other	
	Other	CCSL Sandbox established and running: A community of practice of climate change and social learning			2012	Completed	Other	
	Reports, publications	Measu	uring impact of socia	l learning	2012	Completed	Document (*.doc, *.odt, *.pdf)	
			Acronym			Name		
			IDS		ı	nstitute of Development	Studies	
	ARI - Advanced Research Ins	stitution		Contact Poir		·	Contact Point Email	
				Lars Ott			L.Naess@ids.ac.uk	
			Acronym			Name		
					International	Institute for Environmer	t and Development	
	ARI - Advanced Research Ins	ARI - Advanced Research Institution			nt Full Name		Contact Point Email	
				Liz Carlile			liz.carlile@iied.org	
			Acronym			Name		
Current Partners			ILRI		Inter	national Livestock Resea	rch Institute	
	CG - CGIAR Center			Contact Poir			Contact Point Email	
				Peter Ba	llantyne		p.ballantyne@cgiar.org	
			A			A1		
			Acronym		Interna	Name	arch Institute	
	ARI - Advanced Research Ins	stitution	Acronym IDRC	Contact Poir		Name tional Development Rese		
	ARI - Advanced Research Ins	stitution		Contact Poir	nt Full Name		Contact Point Email	
	ARI - Advanced Research Ins	stitution		Contact Poir Blane I	nt Full Name			
	ARI - Advanced Research Ins	stitution			nt Full Name		Contact Point Email	
	ARI - Advanced Research Ins	stitution	IDRC		nt Full Name	tional Development Rese	Contact Point Email	
	ARI - Advanced Research Ins	stitution	IDRC	Blane H	nt Full Name Harvey nt Full Name	tional Development Rese Name Consultant	Contact Point Email bharvey@idrc.ca Contact Point Email	
		stitution	IDRC	Blane I	nt Full Name Harvey nt Full Name	tional Development Rese Name Consultant	Contact Point Email bharvey@idrc.ca	

	Activity No. 267							
Activity title	•	Agricultural land cover data for Latin America and southeast Asia in 2005 (GEOSHARE)						
CCAFS Objectiv (select from drop		4.2 Assemble data and tools for analysis and planning CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)					4.2.1 2012 (3)	
Activity objectives (what the activity aims to achieve)	Objective 1	To develop agricultural land cover data for Latin America and Southeast Asia for 2005						
Activity statu	ıs		Completed					
Insert a small remark to status of the act (2-4 sentences required)	ivity.	Cropland and pasture land m		a for the year 2005 were of assification data with nat			n technique to merge satelliet-derived s.	
		Туре	De	escription	Year	Status	Format	
Deliverables sta (You may add any unexpecte		Data	raster data on t	dministrative level) and total cropland area and pasture area	2012	Completed	GIS raster (ESRI Grids, GeoTiff, etc)	

		Acronym		Name	
			McGill University		
Current Partners	AI - Academic Institution		Contact Point Full Name	Contact Point Email	
		Navin Ramankutty		navin.ramankutty@mcgill.ca	

			Ac	tivity No. 268					
Activity title		Sponsoring of participants for AgMII	P workshop						
CCAFS Objectiv (select from drop I		4.2 Assemble data and tools for a	analysis and planning		• (sele er details go to CCAFS 2012 FRAME sheet)		4.2.1 2012 (3)		
Activity objectives (what the activity aims to	Objective 1	Phase 1: The objective was to initiat the CCAFS regions.	nase 1: The objective was to initiate interactions between the AgMIP project and the CCAFS program at the start-up workshop of AgMIP, by enabling the participation of scientists from e CCAFS regions.						
achieve)	Objective 2	Phase 2: To identify concrete collaboration	hase 2: To identify concrete collaboration and leveraging opportunities						
Activity statu	is			Complet	red				
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	The workshop was held in October 2012 and materials from it are available at www.agmip.org. Participants from the three CCAFS regi					• • • • • • • • • • • • • • • • • • • •		
		Туре	De	escription	Year	Status	Format		
Deliverables sta (You may add any unexpected		Reports, publications	Web-base	d workshop report	2012	Completed	Document (*.doc, *.odt, *.pdf)		
			A	cronym		Name			
Current Partne	arc					Columbia Unive	·		
Current Fartile		AI - Academic Institu	ution		oint Full Name		Contact Point Email		
				Caron	yn Mutter		czm2001@columbia.edu		

			Ac	tivity No. 269									
Activity title	•	Science meeting on systems analysis tools											
CCAFS Objectiv		4.2 Assemble data and tools for ana	lysis and planning	CCAFS Milestone No. from drop list / for further 2015 LOGFR		4.2.1 2013 (5)							
	Objective 1	To discuss key systems research challer	discuss key systems research challenges in the CRPs – similarities and differences										
Activity objectives	Objective 2	To work in break out groups of 3-5 peo	work in break out groups of 3-5 people on specific examples										
(what the activity aims to achieve)	Objective 3	To organize a workshop output – e.g. a	organize a workshop output – e.g. a review paper / draft manual to help other scientists working on similar challenges / possibly CN on joint trade-off analysis projects										
Activity statu	ıs		Uncompleted										
Insert a small remark to status of the act (2-4 sentences required)	ivity.	The meeting will take place 19	•			a, participant invitation: hired to set up the mee	s, invited speakers and logistics are ting.						
		Туре	De	scription	Year	Status	Format						
		Workshops	Workshop to be I	neld in late 2012 or early 2013	2013	Select a status	Select a format						
Deliverables sta		Reports, publications	Wor	kshop report	2013	Select a status	Select a format						
(You may add any unexpecte	ed deliverable)												
		Other		iew paper or possibly a nods manual	2013	Select a status	Select a format						

		Acronym IITA	Name International Institute of Tropical Agriculture			
	CG - CGIAR Center		Contact Point Full Name	Contact Point Email		
			Piet van Asten	p.vanasten@cgiar.org		
Current Partners		Acronym		Name		
			Independent Consultant			
	Other		Contact Point Full Name	Contact Point Email		
			Lotte Klapwijk	lotteklapwijk@gmail.com		

			Activity No.	270					
Activity title		Household modelling development and application using the Impact-Lite databases in the CCAFS sites							
CCAFS Objectiv (select from drop le		4.2 Assemble data and tools for analysis and p		Milestone No. p list / for further do 2015 LOGFRA	etails go to CCAFS 2	select 1012 -	4.2.1 2013 (5)		
Activity objectives (what the activity aims to achieve)	Objective 1	To utilize the Impact-lite databases for developin							
Activity statu	s	Uncompleted							
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity)		These recruitments and the associated activity had to be put on hold because it became clear that there would funding constraints for 2013 and beyond. It is hoped that a post-doc will be recruited for the W Africa and S Asia regions to work on the Impact-Lite household data, through other mechanisms.							
		Туре	Description		Year Si		itus	Format	
Deliverables sta (You may add any unexpected		Other R	tecruitment initiation o	f postdocs	2012	Select a status		Select a format	
			Acronym			N	Name		
			ICRISAT		International Cr	rops Research I	nstitute for th	ne Semi-Arid Tropics	
		CG - CGIAR Center		Contact Poin	t Full Name			Contact Point Email	
				Pierre Sibi	iry Traore		P.	TRAORE@CGIAR.ORG	
Current Partne	rs								
			Acronym			N	ame		
			IWMI		Inter	rnational Wate	er Management Institute		
		CG - CGIAR Center		Contact Poin	t Full Name			Contact Point Email	
				Pramod A	Aggarwal		p.	k.aggarwal@cgiar.org	

	Activity No. 271										
Activity title		Implementing a cassava model in DSSAT, and prelmiminary work on expanding DSSAT to include crops for pigeonpea and yam; initial work on integrating MarkSimGCM into the DSSAT									
CCAFS Objectiv (select from drop I		4.2 Assemble data and tools for analy	select 012 -	4.2.1 2013 (5)							
Activity objectives	Objective 1	To incorporate MarkSim into DSSAT									
(what the activity aims to	Objective 2	To implement a cassava model in DSSAT	T								
achieve)	Objective 3	To expand DSSAT to include model for o	other crops								
Activity statu	S		Partially completed								
Insert a small remark to status of the acti (2-4 sentences required p	ivity.	model development and refine	ment is proceedi	ng. Work on DSSAT cre	op models for swe		in place in the meantimg. Casssava d yam (involving literature reviews) 2013.				
		Туре	De	escription	Year	Status	Format				
Deliverables sta	itus	Model tools and software		AT model for cassava, model for pigeopea	2012	Partially completed	Other				
(You may add any unexpecte	d deliverable)										
		Other	Literature re	view of yam research	2012	Partially completed	Select a format				

	Acronym		N	lame			
			University of Florida				
	AI - Academic Institution		Contact Point Full Name	Contact Point Email			
			Jim Jones	jwj@ufl.edu			
		Acronym	N	lame			
			Washington State University				
Current Partners	AI - Academic Institution		Contact Point Full Name	Contact Point Email			
			Gerrit Hoogenboom	gerrit.hoogenboom@wsu.edu			
		Acronym	N	lame			
		CIAT	Centro Internacional	l de Agricultura Tropical			
	CG - CGIAR Center		Contact Point Full Name	Contact Point Email			

			Activity	No. 272								
Activity title		Development work on a DSSAT cassava	a model in consultation with	scientists at CIAT								
CCAFS Objectiv (select from drop le		4.2 Assemble data and tools for and		FS Milestone No. on drop list / for further do 2015 LOGFRA	letails go to CCAFS 20	elect 112 -		4.2.1 2013 (5)				
	Objective 1	To create a specific cassava component for the overall CSM modelcomponent.										
Activity objectives	Objective 2	To incorporate into the cassava compo	nent aspects of cassava phy	siology/agronomy that v	were included in a pr	evious standalone	cassava mode	I (GUMCAS).				
(what the activity aims to achieve)	Objective 3	To evaluate through sensitivity analysis	To evaluate through sensitivity analysis, and on the basis of the evaluations refine, all algorithms included and/or added to the cassava component.									
	Objective 4	To evaluate, through comparison with various algorithms/parameters of the c		available in model read	lable form, the opera	tion of the model,	and on the ba	sis of these evaluations to refine the				
Activity status				Partially comple	eted							
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity)		_	•	ysiology/agronomy	that were include	led in a previo	us standalon	. A cassava component has been ne cassava model GUMCAS). The re.				
		Туре	Descrip	tion	Year	Stat	us	Format				
Deliverables sta (You may add any unexpected		Model tools and software	Revised DSSAT mo	del for cassava	2013	Partially com	pleted	Select a format				
			Acrony	m		Na	me					
						University	ersity of Guelph					
Current Partne	ers	AI - Academic Instituti	on	Contact Poin	nt Full Name		Contact Point Email					
				LAH	Hunt		m	nthunt@sympatico.ca				

		Act	ivity No. 273							
Activity title		Initiation of a case study at one CCAFS site on developing app	Initiation of a case study at one CCAFS site on developing approaches to support smallholder decision making, to link with both the met service work and the household modelling work							
CCAFS Objective (select from drop list)		4.2 Assemble data and tools for analysis and planning	CCAFS Milestone No. (self- from drop list / for further details go to CCAFS 2012 2015 LOGFRAME sheet)							
Activity objectives	Objective 1	To improve awareness and understanding amongst smallhold information	mprove awareness and understanding amongst smallholders of climate variability at their location and of whether there are any trends in climate that are currently evident from the mation							
(what the activity aims to	Objective 2	To understand what climate related information farmers want and need for improved decision making (for different types of decisions)								
achieve)	Objective 3	To communicate information effectively and in ways that enable learning, interaction and exploration by farmers, and that facilitate short and longer term planning and decision making, and which can be scaled-up								
Activity statu	is		Completed							
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity)		-	rkshop implemented in Tanzania and Nige and the focus next year will be on improvin	r and engagement in Senegal initiated. The approach is g it based on stakeholder feedback.						

	Type		Description		Year	Stat	us	Format
	Data	Lit	erature review docu	ment	2013	Select a sta	atus	Select a format
Deliverables status	Reports, publications	Summai	y report on linkages developed		2014 Select a status		atus	Select a format
(You may add any unexpected deliverable)								
	Communication products	Trai	ning materials for m	et staff	2014	Select a status		Select a format
			Acronym			Na	me	
						University	of Reading	
	AI - Academic Institution		Contact Poin	nt Full Name			Contact Point Email	
			Peter D	orward		p.t.o	dorward@reading.ac.uk	
			Acronym				me	
						University	of Reading	
	Select a partner type.			Contact Poin				Contact Point Email
				Roger	Stern		r.c	d.stern@reading.ac.uk
			•					
			Acronym		Δσείο	cultural Researc	me h Institute H	ombolo
Current Partners	and extension services			Contact Point Full Name				Contact Point Email
	and extension services			Elirehema, Y. Swai			eyswai@yahoo.com	
								7
			Acronym			Na	Name	
					7	anzania Meteo	rological Age	ency
	GO - Government office/depart	ment		Contact Poin	nt Full Name			Contact Point Email
				Isack B.	Yonah		yo	nah002@yahoo.co.uk
			Acronym			Na	me	
					S	Sokoine University of Agriculture		
	AI - Academic Institution			Contact Poin	nt Full Name			Contact Point Email
				Henry I	Mahoo		ma	hoohenry@yahoo.com



2012 Technical Report per Activity

Each Program Participant must provide a small remark against each activity/deliverable to indicate the status of the activity (2-4 sentences required per activity) using the form below. Updated data from the current partners is also required.

CCAFS Theme Led Activities Theme 4.3. Refine Frameworks for Policy Analysis

				Activity No.	239						
Activity title	,	Development of virtual cultivars/animals,	/pasture system	ns that are resilien	t to climate change (in conjunction with G	lobal Futures pro	ject work)			
CCAFS Objectiv (select from drop I		4.3 Refine frameworks for poli	cy analysis		Milestone No. p list / for further de 2015 LOGFRAI	(sele tails go to CCAFS 2012 ME sheet)			4.3.1 2012 (1)		
Activity objectives (what the activity aims to achieve)	Objective 1	Coordinating activities among crop breed rice for identified potential technologies the selected sites in WCA, ESA and Asia, 4 software into the IMPACT modeling syste 5. cassava and beans for identified poten	for IRRI (inclusion l. crop residues m),	on of Oryza rice m from rice, maize,	odeling software in	DSSAT system). 3. grou	undnut and sorgh	num for identifi			
	Objective 2	Representation in meetings									
	Objective 3	Preparation of working papers on simula	tion analyses of	f virtual crop mod	els in the areas of sp	ecialization					
Activity statu	S				Partially complet	ed					
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity)		part of the ongoing "Global Futur 1. CIMMYT-activity completed good promise to increase produ was accomplished. It is now pousing the ORYZA2000 model. Hebeen calibrated for ORYZA2000, s CO2 enhancement, 3. ICRISAT-acrop model (DSSAT) was complet results. Two working papers we residue coefficients (for rice, developed, based on stan livestock/pasture systems mod Calibrated the DSSAT model collection: Partial data collection models to assess the impact of cl	es for Agricu ; Two report ctivity of ma sssible to use lowever, it re such as IR72. ctivity comp ed. The bree ere prepared , maize, whe dard statisticule is currer for Beans. I n on aggrega	alture" project, s, submitted to ize under exist e the existing Dequires addition b. Extreme en oleted; Evaluateders and physical and one journat, millet and call methods; to the participated in ted data for SF ge on cassava act evaluation o	(the project is p O Gates Foundati ing and potentia SSAT simulation onal testing in the vironmental con ion of productivi iologists were in al article was pu al article was pu ot incorporate out ed in the larger in various meeting oAM database fo ond analyzed the f herbicide tolera	rincipally bilateral on, that present sl I constraining fact environment for periodic following areas: ditions, including ity potential of idevolved in this activiblished, 4.ILRI- according to the Rumir modeling environm gs and team works r Latin America. Cl impact of herbicid ant cassava, GCP2:	lly funded by hort review o cors. , 2. IRRI-10 generating land a. DSSAT rice drought, floor entified sorgh vity to calibrativity partiall deling environant software ent. 5. CIAT-10 a aiming at im limate Change le tolerance to 1, Uganda, Jun	Bill & Melinc f maize and in activity com, ge-scale sime experiment. I, low N, high um and groute the mode y completed, ment has but activity part proving the elmpact Ass echnology. P ne 2102	ing climate change components, as da Gates Foundation). Analytically: wheat technologies that showed pleted; The DSSAT-ORYZA linkage ulations of rice yield predictions of sor cultivars which have already h temperatures, low temperatures, undnut technologies using virtual I as well as improve the simulation; A system for incorporating cropeen completed. A process was PACT modeling system. The cially completed; Crop modeling: cassava model in DSSAT. Data essment: Used DSSAT and IMPACT 'articipation in workshops: Ex-ante		
		Туре		Description	1	Year	Status		Format		
		Model tools and software		mate resilient virtual cultivars developed for naize, wheat, rice, groundnut, and sorghum		2012	Partially com	pleted	Other		
Deliverables sta (You may add any unexpecte		Model tools and software	model deve	nate resilient animals/pasture systems el development incorporated into larger modeling environment		2012	Partially com	pleted	Other		
				Acronym			Nai	ne			
				CIMMYT		International			ement Center		
		CG - CGIAR Center			Contact Point				Contact Point Email		
					Bekele Sh			В	.SHIFERAW@cgiar.org		
									- 5 - 0		
				Acronym			Nai	me			
				IRRI		Inter	national Rice		titute		
		CG - CGIAR Center			Contact Point				Contact Point Email		
					Samarendu	Mohanty			s.mohanty@irri.org		
				Acronym			Naı	ne			
				ICRISAT		nternational Crop	s Research Ins	titute for the	e Semi-Arid Tropics		
Current Partne	ers	CG - CGIAR Center			Contact Point	Full Name			Contact Point Email		
current Partners		CG - CGIAR Center		Contact Point Full Name Cynthia Bantilan					Contact Point Email C.BANTILAN@CGIAR.ORG		

	Acronym	Na	lame		
	CIAT	International Center t	or Tropical Agriculture		
CG - CGIAR Center		Contact Point Full Name	Contact Point Email		
		Bernardo Creamer	B.Creamer@CGIAR.ORG		
	Acronym	Na	Name		
	ILRI	International Crops Research In	stitute for the Semi-Arid Tropics		
CG - CGIAR Center		Contact Point Full Name	Contact Point Email		
		Dolapo Enahoro	D.Enahoro@cgiar.org		

				Activity No.	240					
Activity title		Model Intercomparisons of major globa	al models using	ARC RCPs and SSPs a	as drivers					
CCAFS Objectiv (select from drop l.		4.3 Refine frameworks for po	olicy analysis		filestone No. o list / for further des 2015 LOGFRAN	tails go to CCAFS 20:	elect 12 -	4.3.1 2012 (1)		
Activity objectives	Objective 1	Coordinating the global intercompariso	n work							
(what the activity aims to	Objective 2	Organizing model intercomparisons me	etings, as appro	priate						
achieve)	Objective 3	Preparing several thematic papers to be	e included in int	ernational journal						
Activity statu	S			Partially completed						
Insert a small remark to status of the acti (2-4 sentences required p	vity.	equilibrium A set 5 papers, for a Agricultural economy modeling chain", P funded by Columi	models while of six or mor Economics S NAS, have be	e four are partia e simulations ha pecial Issue on G een prepared an y, and it include	I equilibrium mo ive been develop ilobal Model Into d are in the stag s several partner	dels) have been bed to expose the ercomparison, , a e of submissions s. Here are lister	in a global reference scer e models to a wide range and one on "Assessing und . (Please make a note, th d partners that maintaine	of drivers. certainty along the climate-crop- at the project was also bilaterally d contracts with IFPRI)		
		Туре		Description		Year	Status	Format		
Deliverables status (You may add any unexpected deliverable)		Workshops	Model	intercomparisons n	neetings held	2012	Completed	Document (*.doc, *.odt, *.pdf)		
		Reports, publications		Papers prepared for submission issue in time to meet AR5 subm		2012	Partially completed	Document (*.doc, *.odt, *.pdf)		
				Acronym			Name			
						Stichtin	g Dienst Landbouwkundig	Onderzoek		
		Al - Academic Institution			Contact Point	Full Name		Contact Point Email		
				Acronym				Name		
				AOM			rdam Optimization Model			
		PRI - Private Research Inst	itution		Contact Point	Full Name		Contact Point Email		
				Acronym			Name			
				IDS		In	sititute of Development S			
Current Partne	ers	AI - Academic Instituti	on		Contact Point			Contact Point Email		
				Acronym			Name	Name		
				ABARES			Agricultural and Resource			
		GO - Government office/dep	partment		Contact Point	Full Name		Contact Point Email		
				Acronym			Nome			
				Acronym		Internation	Name nal Institute for Applied Sy	stems Analysis		
		ARI - Advanced Research Ins	stitution		Contact Point		astrate for Applied by	Contact Point Email		
		The forecast rescarcing into			SSGCC. OHIC					

Activity title		Merging of various modeling components influencing agricultural research internventions on potato and sweet potato, 2011 funds									
CCAFS Objectiv (select from drop li		4.3 Refine frameworks for p	policy analysis		Milestone No. p list / for further de 2015 LOGFRAN	tails go to CCAFS 20:	elect 12 -		4.3.1 2012 (1)		
Activity objectives (what the activity aims to achieve)	Objective 1			the development of modeling tools to improve evalu lopment, related to potato and sweet potato							
Activity status	s				Partially complet	ed					
Insert a small remark to indicate the status of the activity. (2-4 sentences required per activity)		modeling framework (DSSAT-S of-concept). Training on the between the crop model and	UBSTOR) and use of the glo	an economic m bal crop model model has bee	odel (IMPACT) ha ing framework of n established and ural economics.	as been set up ar n an high-perforr d is operational.	nd used for the eva mance cluster infra A first impact stud	luation of structure l ly has beer	logies consisting of a global cro improved potato varieties (pro has been received. The linkage n carried out and presented at ato, work has mainly focused o	oof a	
		Туре		Description	1	Year	Status		Format		
Deliverables status (You may add any unexpected deliverable)		Reports, publications	modeling	g interactions betwee components of pote interventions for p potato	ential agricultural	2012	Partially comple	ed	Document (*.doc, *.odt, *.pdf)		
				Acronym CIP		_	Name	ıl de la Dan	3		
Current Partne	rs	CG - CGIAR Cente	r	CII	Contact Point		citto internacioni	ro Internacional de la Papa Contact Point Email			
	Current Partners				Guy Ha	reau		G	.Hareau@cgiar.org		

Activity titl	e	Develop methods for improving CC models like IMPACT or the enhance				ent internvention areas. This ma	y involve the direct enhancement of glob
CCAFS Objecti		4.3 Refine frameworks f	or policy analysis	CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)			4.3.1 2012 (1)
	Objective 1	Developing methods for improving	CGIAR modeling capability	in agro-forestry and other natura	al resource manag	ement intervention areas.	
Activity objectives	Objective 2	Building up relevant global databa	ses with which to undertake	ex ante impact assessments for	agroforestry and r	natural resource management in	iterventions
(what the activity aims to achieve)	Objective 3	Identifying priority ex ante impact	assessments and key model	parameters, such as likely adop	tion trajectories a	nd productivity, equity, income,	and environmental service impacts
	Objective 4	Enhancement of ex ante impact as	ssessment tools within ICRAF				
Activity stat	us			Partially complete	ed		
Insert a small remark to status of the act (2-4 sentences required	tivity.	deliverable). In 2012, ICRAI	proceeded well on da be collected in I	ta collection. Data were co Malawi. All data compiled	ompiled from t will help ICRA	wo areas (West Africa and F building the model in 20	
	tivity.		proceeded well on da be collected in I	ta collection. Data were co	ompiled from t	wo areas (West Africa and	l East Africa). In 2013, more data
status of the act	tivity.	deliverable). In 2012, ICRAI	F proceeded well on da be collected in I D Modeling capab natural resource	ta collection. Data were co Malawi. All data compiled	ompiled from t will help ICRA	wo areas (West Africa and F building the model in 20	East Africa). In 2013, more data
status of the act	tivity.	deliverable). In 2012, ICRAI	F proceeded well on da be collected in I DE Modeling capab natural resource areas are linked to Data collected on a	ta collection. Data were co Malawi. All data compiled escription illities in agro-forestry and management intervention	ompiled from t will help ICRAI Year	wo areas (West Africa and F building the model in 20 Status	l East Africa). In 2013, more data 14. Format
status of the act	tivity.	deliverable). In 2012, ICRAI Type Model tools and software	F proceeded well on da be collected in I DE Modeling capab natural resource areas are linked to Data collected on a	ta collection. Data were co Malawi. All data compiled vescription illities in agro-forestry and management intervention between DSSAT and IMPACT	ompiled from t will help ICRAi Year 2012	wo areas (West Africa and F building the model in 20 Status Partially completed	I East Africa). In 2013, more data 14. Format Other
status of the aci (2-4 sentences required	ti vity. per activity)	deliverable). In 2012, ICRAI Type Model tools and software	F proceeded well on da be collected in I D D Modeling capab natural resource areas are linked to Data collected on a Contribution to bes	ta collection. Data were co Malawi. All data compiled vescription illities in agro-forestry and management intervention between DSSAT and IMPACT	ompiled from t will help ICRAi Year 2012	wo areas (West Africa and F building the model in 20 Status Partially completed	I East Africa). In 2013, more data 14. Format Other
status of the act	tivity. per activity)	Type Model tools and software	F proceeded well on da be collected in I D D Modeling capab natural resource areas are linked to Data collected on a Contribution to bes	ta collection. Data were co Malawi. All data compiled Description Illities in agro-forestry and management intervention between DSSAT and IMPACT Igroforestry and maise yields in Malawi Ist technologies for the CGIAR	year 2012 2012	wo areas (West Africa and F building the model in 20 Status Partially completed Completed	I East Africa). In 2013, more data 14. Format Other Spreadsheet (*.xls, *.ods)
status of the aci (2-4 sentences required	tivity. per activity)	Type Model tools and software	F proceeded well on da be collected in I DE COLLECTED IN I	ta collection. Data were co Malawi. All data compiled Description Illities in agro-forestry and management intervention between DSSAT and IMPACT Igroforestry and maise yields in Malawi Ist technologies for the CGIAR	year 2012	wo areas (West Africa and F building the model in 20 Status Partially completed Completed	I East Africa). In 2013, more data 14. Format Other Spreadsheet (*.xls, *.ods)
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		evelop models and platforms for better ating agroforestry and NRM into CGIAR ex ante impact modeling systems	2014 Unco	mpleted Select a format	
		Acronym		Name	
		ICRAF	World Agr	oforestry Center	
Current Partners	CG - CGIAR Center	Contact Poin	nt Full Name	Contact Point Email	
		Frank	Place	F.PLACE@cgiar.org	

			Activit	y No. 246			
Activity title		Report for the United Nations Commi	tee on Food Security (CFS) O	N Food Security and Climate (Change and related r	eports with subregional resu	lts
CCAFS Objectiv (select from drop I		4.3 Refine frameworks for policy analysis			FS Milestone No. (select in drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)		4.3.1 2012 (2)
Activity objectives	Objective 1	Project leadership of the report prepare	ation				
(what the activity aims to achieve)	Objective 2	Dissemination of the report results, in	international for a, policy pa	pers and publications			
Activity statu	s			Completed			
Insert a small remark to status of the acti (2-4 sentences required p	vity.	-	s presented during a spe		well as during a	special session Eighteen	PE) of the Committee on World Food th Session of the Conference of the
		Type		iption	Year	Status	
Deliverables sta (You may add any unexpecte			Desci	iption	· cu.	Status	Format
		Reports, publications	Publication of the re nationa and internation	ports and citations in	2012	Completed	Format Document (*.doc, *.odt, *.pdf)
		Reports, publications	Publication of the re nationa and internation	ports and citations in onal planning/strategy			
		Reports, publications	Publication of the re nationa and internation	ports and citations in onal planning/strategy ments			
		Reports, publications	Publication of the re nationa and internatio docu	ports and citations in ports and citations in ports and citations in ports are set of the control of the contro	2012	Completed Name	
Current Partne	d deliverable)	Reports, publications NGO_DO - Non-governn organization/Development o	Publication of the renational and international and internation docurrence of the property of	ports and citations in ports and citations in ports and citations in ports are set of the control of the contro	2012 ulture Organizati	Completed Name on; Committee on Worl	Document (*.doc, *.odt, *.pdf)

				Activity No. 247				
Activity title	2	Completion of national and regional studi	lies complement	tary to the CFS global study				
CCAFS Objective (select from drop list)		4.3 Refine frameworks for poli	CCAFS Milestone No. (select from drop list / for further details go to CCAFS 2012 - 2015 LOGFRAME sheet)				4.3.2 2012	
Activity objectives	Objective 1	Comprehensive vulnerability analysis of	Agriculture and	Climate Change in East and Centra	l Africa, West Africa, and	Southern Africa		
(what the activity aims to achieve)	Objective 2	Dissemination of results at international	meetings and th	hrough publications				
Activity statu	ıs			Complete	ed			
Insert a small remark to status of the act (2-4 sentences required p	ivity.	briefs are available at the IFPRI Landscapes and Livelihoods D	I website, cor	mplete reports are to be fina Eighteenth Session of the Co	lised in the beginni onference of the Pa	ng of 2013). Re	esults were d (COP 18), in I	re released (Country level policy discussed during the "Agriculture, Doha, Qatar in December, 2012.
status of the act (2-4 sentences required p	ivity. per activity)	briefs are available at the IFPRI Landscapes and Livelihoods D Type	I website, cor Day 5" at the	mplete reports are to be fina Eighteenth Session of the Co Description	lised in the beginni onference of the Par Year	ng of 2013). Reties, UNFCCC	esults were d (COP 18), in I	discussed during the "Agriculture, Doha, Qatar in December, 2012. Format
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status of the act (2-4 sentences required p	ivity. per activity) atus	briefs are available at the IFPRI Landscapes and Livelihoods D Type Reports, publications	I website, cor Day 5" at the	mplete reports are to be fina Eighteenth Session of the Co Description s completed and disseminated Acronym FANRPAN Contact Po	lised in the beginni onference of the Par Year 2012 Food, Agriculture	ng of 2013). Re tties, UNFCCC (Stat Partially com	esults were d (COP 18), in I tus me esources Police	discussed during the "Agriculture, Doha, Qatar in December, 2012. Format Document (*.doc, *.odt, *.pdf) cy Analysis Network
status of the act (2-4 sentences required p	ivity. per activity) atus	briefs are available at the IFPRI Landscapes and Livelihoods D Type Reports, publications	I website, cor Day 5" at the	mplete reports are to be fina Eighteenth Session of the Co Description s completed and disseminated Acronym FANRPAN Contact Po	lised in the beginni onference of the Par Year 2012 Food, Agriculture int Full Name	ng of 2013). Re tties, UNFCCC (Stat Partially com	esults were d (COP 18), in I tus me esources Police	discussed during the "Agriculture, Doha, Qatar in December, 2012. Format Document (*.doc, *.odt, *.pdf) cy Analysis Network Contact Point Email
status of the act (2-4 sentences required p	ivity. per activity) atus	briefs are available at the IFPRI Landscapes and Livelihoods D Type Reports, publications	I website, cor Day 5" at the	mplete reports are to be fina Eighteenth Session of the Co Description s completed and disseminated Acronym FANRPAN Contact Po	lised in the beginni onference of the Par Year 2012 Food, Agriculture int Full Name	ng of 2013). Re tties, UNFCCC (Stat Partially com	esults were d (COP 18), in I tus me esources Police	discussed during the "Agriculture, Doha, Qatar in December, 2012. Format Document (*.doc, *.odt, *.pdf) cy Analysis Network Contact Point Email
status of the act (2-4 sentences required p	ivity. per activity) atus	briefs are available at the IFPRI Landscapes and Livelihoods D Type Reports, publications	I website, cor Day 5" at the	Description completed and disseminated Acronym FANRPAN Contact Pc Sepo H	lised in the beginni onference of the Par Year 2012 Food, Agriculture int Full Name achigonta	ng of 2013). Retities, UNFCCC Star Partially com Natand Natural Re	esults were d (COP 18), in I tus me esources Police me	discussed during the "Agriculture, Doha, Qatar in December, 2012. Format Document (*.doc, *.odt, *.pdf) cy Analysis Network Contact Point Email
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	Acronym	N	lame
	(CORAF/W		
	ECARD)	West and Central African Council for	Agricultural Research and Development
RO - Regional Organization		Contact Point Full Name	Contact Point Email
		Abdulai Jalloh	abdulai.jalloh@coraf.org

Activity title		Training and workshops on mo	odeling tools in collabor	ating centers and NARES			
CCAFS Objectiv (select from drop I		4.3 Refine framewo	rks for policy analysis	CCAFS Milestone No. from drop list / for furthe 2015 LOGF	(sel r details go to CCAFS 201. RAME sheet)		4.3.2 2012
Activity objectives (what the activity aims to achieve)	Objective 1	Capacity building among CGIA	R centers and NARES				
Activity statu	s			Partially com	pleted		
Insert a small remark to status of the acti (2-4 sentences required p	vity.	Several scientists and s	taff from all particip	pating CGIAR centers in the " G in January 2011, and maintain	ilobal Futures for Ag	riculture" project, receive	sessions held at IFPRI headquaters. d guidance, at the Annual meeting eam, based at IFPRI. Training with
		Туре		Description	Year	Status	Format
Deliverables sta (You may add any unexpecte		Capacity		artners in target countries to analyze of policy change using modeling tools	2012	Partially completed	Other
				Acronym		Name	
Current Partne	ers	Select a p	artner.	Contact Po	oint Full Name		Contact Point Email



2012 summary report of activities and deliverables by Output level

Each Program Participant must prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives. Length is dependent on budget size so please refer to the table on the explanatory notes.

CCAFS Theme Led Activities Theme 4. Integration for Decision Making

Theme 4. Integration for Decision Making

Objective 4.1 Explore and jointly apply approaches and methods that enhance knowledge to action linkages with a wide range of partners at local, regional and global levels

Outcome 4.1: Appropriate adaptation and mitigation strategies mainstreamed into national policies in at least 20 countries, in the development plans of at least five economic areas (e.g. ECOWAS, EAC, South Asia) covering each of the target regions, and in the key global processes related to food security and climate change

Output 4.1.1 Future economic development scenarios taking climate change into account, and vulnerability maps and analyses incorporating a changing climate and food security issues shared with decision-makers at national, regional and global levels and informing regional economic development and national food security plans and policies

Output 4.1.1 Scenarios (http://ccafs.cgiar.org/scenarios)

Activities: Scenarios building process and capacity building completed in EA, nearly complete in SA, and underway in WA. Two workshops held in EA in 2012 (for policy advisors and for non-state actors) to introduce and review the scenarios, and to develop strategies and policies based on the key future socio-economic issues presented by the scenarios. Based on recommendations from the workshop, the Society for International Development (SID), based in Nairobi, has been contracted to work with the East African Farmers Federation (EAFF) to increase their capacity to engage in East African Community (EAC) negotiations and policy setting, and to train 'policy champions' from various East African organizations to engage decision-makers about the future scenarios.

Delivered: Workshop reports for EA and WA available on CCAFS and partners websites; Draft policy brief on EA scenarios submitted to CCAFS communications team; newspaper articles written by journalists; Journal article published; Policy and scenario development workshops held; Presentations made at global conferences (PUP, ESG, GCARD); multiple blogs written on scenario engagement process; radio program and cartoons published.

Publications and presentations:

- 1. (Journal) Chaudhury, M., Vervoort, J., Kristjanson, P., Ericksen, P. and Ainslie, A. 2012. Participatory scenarios as a tool to link science and policy on food security under climate change in East Africa. Regional Environmental Change. DOI 10.1007/s10113-012-0350-1. http://cgspace.cgiar.org/handle/10568/24447
 - (workshop report) East Africa Strategic Futures Workshop for Non-State Actors http://cgspace.cgiar.org/handle/10568/21678
 (workshop report) East Africa Strategic Futures Workshop for Policy Advisors http://cgspace.cgiar.org/handle/10568/24758
- 4. (presentation) Multi-Stakeholder Scenarios as a Boundary Process. Presented at Planet Under Pressure, London, March 2012. ..\.\Scenarios\Research on Scenarios (Boundary)\Presentation on Multi-Stakeholder Scenarios as a Boundary Process.pptx
- 5. (presentation) We're All In This Together: Shifting Paradigms on Science and Society in a Shifting Global Landscape. Presented at Planet Under Pressure, London, March 2012. http://www.planetunderpressure2012.net/pup_session.asp?19212
- 6. (presentation) Multi-actor scenarios to build capacity for food system governance at the sub-continental level. Presented at Earth System Governance, Lund, April 2012http://www.lund2012.earthsystemgovernance.org/LC2012-paper332.pdf

7. (presentation) No Foresight, no Food? Presented at GCARD 2, Punta Del Este, October 2012 http://www.egfar.org/sites/default/files/files/Foresight%20Briefs/Joost_Vervoort_Brief03_Final.pdf

8. (newspaper article) 'Scenarios: a tool to interrogate today and shape tomorrow'. The Observer, Sunday, 26 August 2012

(http://www.observer.ug/index.php?option=com_content&view=article&id=20580:scenarios-a-tool-to-interrogate-today-and-shape-tomorrow&catid=37:guest-witers<emid=661

- 9. (newspaper article) 'Why Arusha meeting on agriculture was important to Africa's food security'. IPPMedia.com, Thursday Feb 21, 2013 (http://www.ippmedia.com/frontend/index.php?l=46853)
- 10. (blog) Joost Vervoort and Gopal Datt Bhatta. 'Future drivers for regional food security and climate adaptation explored by South Asians', 17th December 2012 (http://ccafs.cgiar.org/blog/category/scenarios)
 - 11. (blog) Joost Vervoort and Hannah Rowlands. 'Falling sick on an empty belly? Linking the future of food security and disease', 15th November 2012 (http://ccafs.cgiar.org/blog/category/scenarios)
- 12. (blog) Caity Peterson. 'Thinking one step ahead at all times is difficult but necessary!', 5th November 2012 (http://ccafs.cgiar.org/blog/category/scenarios)

 13. (blog) Caity Peterson. 'Industrious ants, or lone leopards?', 29th October 2012 (http://ccafs.cgiar.org/blog/category/scenarios)
- 14. (blog) Moushumi Chaudhurv. 'Working backwards to plan for future food security in East Africa'. 12th September 2012 (http://ccafs.cgiar.org/blog/category/scenarios)

Output 4.1.2 Evidence on, testing and communication of, successful strategies, approaches, policies, and investments contributing to improved science-informed climate change-agricultural development-food security policies and decision making

Output 4.1.2 Linking K with A Testing of Strategies

Activities: PAR process established in 15 sites and gender-sensitive activities related to risk management, adaptation and mitigation implemented with engagement and communication strategies aimed at users of the knowledge generated pursued, and scaling up mechanisms put in place. Impact pathway technical support was provided to the regional CCAFS teams and workshops with local and regional partners held in EA and WA and plans for a South Asia in early 2013 made.

Delivered: Learning workshop and other meetings with CARE Int'l, EcoAgriculture, Vi, KARI and other local PAR partners on approaches and institutional strategies for gender-sensitive mitigation-related activities in CCAFS sites in East Africa, and proposal for new CARE-CCAFS CSA EA project submitted to Rockefeller. Partnership established with Mediae.org, a media company producing a regional farm reality TV reaching 7million viewers across East Africa; multiple meetings held with many CCAFS CGIAR and NARS partners to engage and involve them in these shows – videos and associated communications materials that we plan to disseminate widely through various means to NGOs and groups across EA. New partnership with PROLINNOVA, an experienced NGO working on local farmer innovation funds, established and plans made for new work in some CCAFS sites with their country platform teams. Plans for an EA farmer innovation fair were also made and a multi-partner committee established (to be held in May 2013).

CCAFS regional partners in EA and site partners in Burkina Faso trained in outcomes-thinking.

Publications and presentations:

1. (working paper) Neufeldt H, Kristjanson P, Thorlakson T, Gassner A, Norton-Griffiths M, Place F, Langford K. 2012. World Agroforestry Centre (ICRAF). Making climate-smart agriculture work for the poor. Nairobi, Kenya. Available at: http://worldagroforestry.org/our_products

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives

Prepare a succinct summary of activities and deliverables, organised

Output 4.1.3 Analyses providing evidence of the benefits of, strategies for, and enhanced regional capacity developed in, gender and pro-poor climate change research approaches that will increase the likelihood that CCAFS-related research will benefit women and other vulnerable as well as socially differentiated groups

Output 4.1.3 Gender & Social Differentiation

Activities: The CCAFS gender strategy was completed. A workshop for the CGIAR gender and agriculture network was held to identify opportunities for collaboration in gender-responsive research. A CCAFS Gender Technical Advisory group was established in 2012 consisting of 16 members with diverse backgrounds from gender and development to statistics. Key gender-related research questions have been established, which served as the basis for gender research carried out under T4.1 in 2012. A draft journal manuscript was produced from results of the FAO/CCAFS participatory research tool for collection of gender-differentiated qualitative data on climate smart agriculture, analogues and climate forecasting implemented by partners in Uganda, Ghana and Bangladesh, and is currently being reviewed by regional partners. The IMPACT survey methodology was modified (IMPACT light) to collect gender-disaggregated agriculture information at the household level, and will be implemented in the 12 CCAFS countries in 2013. Tools for engagement to ensure gender and pro-poor outcomes, communication approaches and tools for understanding climate change-gender relationships tested and disseminated in all CCAFS regions. Training and awareness on climate change and gender for female leaders (almost 1800) in several districts of Bihar.

Delivered: CCAFS-FAO training guide published and launched; Working papers on gender and climate change published; Joint CAPRi-CCAFS working paper; Working papers and technical reports by gender grant recipients, blogs; Presentations made at global conferences (e.g. CBA6); draft journal article on participatory approaches to understanding the gender-dimensions of agriculture and climate change for smallholders; CCAFS gender strategy.

Publications and presentations:

- 1. (working paper) Wright H, Kristjanson P, Bhatta G. 2012. Understanding Adaptive Capacity: Sustainable Livelihoods and Food Security in Coastal Bangladesh. CCAFS Working Paper No. 32. Copenhagen: CGIAR Research Program on Climate Change, Agriculture and Food Security. Available at: http://cgspace.cgiar.org/handle/10568/24794
 2. (working paper) Chaudhury M, Kristjanson. 2012. Informing Participatory Action Research on Gender and Climate Change. Working Paper 19. Copenhagen: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Available at: http://cgspace.cgiar.org/handle/10568/24448
- 3. (working paper) Kyazze, FB, Owoyesigire, B, Kristjanson P, Chaudhury M. 2012. Using a gender lens to explore farmers' adaptation options in the face of a changing climate: Results of a pilot study in Uganda. CCAFS Working Paper No. 26 CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Copenhagen, Denmark.

 Available at: http://cgspace.cgiar.org/handle/10568/23017
- 4. (working paper) Naab, J.B. and Koranteng, H. 2012. Gender and Climate Change Research Results: Jirapa, Ghana Working Paper No. 17. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Nairobi, Kenya. Available online at: http://ccafs.cgiar.org/
- 5. (guide) CCAFS and FAO (2012) Training Guide on Gender and Climate Change Research in Agriculture and Food Security for Rural Development. Nairobi & Rome: CCAFS and FAO. http://www.fao.org/climatechange/micca/75949/en/ (will be available in 3 languages)

6. (report) Ashby J, Kristjanson P, Thornton P, Campbell B, Vermeulen S, Wollenberg E. 2012. CCAFS Gender Strategy.

7. CGIAR Research Program on Climate Change. Agriculture and Food Security (CCAFS). Copenhagen. Denmark. Available online at: www.ccafs.cgiar.org.

- 8. (5 reports) Link to all technical reports by the gender grant recipients: http://ccafs.cgiar.org/our-work/research-themes/integration-decision-making/linking-knowledge-action/gender-grants
 - 9. 2 draft Working papers by gender grant recipients: Raut, Tall
- 10. (presentation) Informing Community Based Participatory Action Research on Gender and Adaptation to Climate Variability. Presented at Community Based Adaptation Conference 6, Hanoi, April 2012. ..\..\Gender\FAO\CCAFS Working Paper\Moushumi Chaudhury_CBA Presentation_20 April 2012.pdf
 - 11. (blog) Nadia Manning-Thomas. 'Making sure both men and women benefit from climate and agriculture research', 16th November 2012 (http://ccafs.cgiar.org/blog/Making-men-women-benefit-climate-agriculture-research)
- 12. (blog) Cecilia Schubert. 'How farmers' gender-based differences hamner climate adaptation'. 23rd August 2012 (http://ccafs.cgiar.org/blog/category/integration-decision-

Output 4.1.4 Strengthening capacities to effectively engage in global policy processes and mainstreaming risk, adaptation and mitigation strategies into national policies, agricultural development plans, and key regional and global processes related to agriculture and rural development, food security and climate change

Output 4.1.4 (1) Communication

Activities: A new climate change and social learning (CCSL) knowledge network was established. A review of current theory and practice in social learning was conducted and published. A workshop was held to identify niches for CCAFS in the area of social learning, and a workshop to identify pathways towards institutionalization of diverse ways of doing research, to bring different stakeholders into the research process, and to understand and use different ways of measuring success. New partnerships were established, e.g. PROLINNOVA, Mediae-Shamba Shape-Up, IDS, IEED, UBC, Berkeley. We facilitated social learning in meetings sponsored by IDS and IEED. New approaches such as animated videos on a new research paradigm for CCAFS and the CG are being produced as a result of this work. We also planned CCAFS's science meeting in 2013 around social learning and will be sharing the outputs of 2012 at that meeting with scientists from all centres. High-level engagement of policy makers and scientists in South Asia particularly on climate smart agriculture and engagement of non-traditional partners such as young Members of the Parliament (almost 60) and extensive media coverage on climate change, agriculture and food security in Nepal.

Delivered: Definition of social learning. Report on social differentiation in CCAFS research approaches. Endogenous social learning activities. Online platform for sharing and creating social learning ideas (http://commsl4climate. wikispaces.com/Sandbox). Working papers.

Publications:

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives

activities and deliverables, organise by Output level of the CCAFS objectiv

1. (working paper) Shames S, Wollenberg E, Buck LE, Kristjanson P, Masiga M and Biryahaho B. 2012. Institutional innovations in African smallholder carbon projects. CCAFS Report no. 8. Copenhagen, Denmark: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Available online at: www.ccafs.cgiar.org 2. (working paper) Harvey B, Ensor J, Carlile L, Garside B, Patterson Z, Naess LO. 2012. Climate change communication and social learning–Review and strategy development for CCAFS. CCAFS Working Paper No. 22. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen, Denmark. Available online at

http://cgspace.cgiar.org/handle/10568/24456)

2. Wiki: http://ccsl.wikispaces.com

Wiki: http://ccsl.wikispaces.cor
 Yammer: yammer.com/ccsl

Output 4.1.4 (2) Land Health

Activities: Local institutional capacity strengthened in land health surveillance methods including soil carbon measurement in the CCAFS regions; Scoping studies undertaken on linking landscape-level land health and carbon measures with socioeconomic data from CCAFS baselines and other site studies.

Delivered: Number of local scientists trained and implementing latest land health surveillance approaches; Joint CCAFS-ICRAF working paper available on both websites.

Publications:

1. (book chapter) Tor-Gunnar Vågen, Finn A. Davey, and Keith D. Shepherd. 2012. Land Health Surveillance: Mapping Soil Carbon in Kenyan Rangelands. In P.K.R. Nair and D. Garrity (eds.), Agroforestry - The Future of Global Land Use, Advances in Agroforestry 9, pp. 465-462, DOI 10.1007/978-94-007-4676-3_22.

Objective 4.2 Assemble data and tools for analysis and planning

Outcome 4.2 Improved frameworks, databases and methods for planning responses to climate change used by national agencies in at least 20 countries and by at least 10 key international and regional agencies

Output 4.2.1 Integrated assessment framework, toolkits and databases to assess climate change impacts on agricultural systems and their supporting natural resources

Regional site and baseline characterisation: Considerable progress was made in finalising baseline data collection activities at the 15 CCAFS core sites in three regions and 12 countries. Objectives are to allow the construction and measurement of indicators of behavioural change in relation to climate change adaptation, mitigation and risk management that can be measured in repeat visits. The goal is assess what kinds of changes have occurred and whether these changes are helping households adapt to, and mitigate, climate change. The baselines at household, village and organisational levels are allowing CCAFS to explore gender and other social differences in target populations. Data collection was completed in 2012 for East Africa, West Africa, and South Asia. Most site reports are complete, and these, the data and all training materials are available via DataVerse. One paper has been published and several more are being written up, some by others not directly involved in the data collection. The work has involved a wide range of national partners in the regions, as well as several CG Centres (ILRI, ICRAF, IWMI and ICRISAT). A prototype mini-atlas was developed for the Lushoto (Tanzania) site, and these are now being completed for all 15 core sites. They contain information on a wide range of themes including climate, land use, soil type, agro-ecological zone, crop and livestock information, and poverty. They will be published in on-line and hard-copy versions in early 2013.

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives Downscaled climate data: Several activities were undertaken in relation to downscaled climate model data for evaluating the impacts of climate change on agriculture and food systems and for assessing adaptation, mitigation and risk management options. A stand-alone version of the MarkSimGCM tool was developed, which like its Google-Earth-based precursor, can generate plausible daily weather data in a common crop-modelling format for future climate change scenarios. This tool can be run from scripts, and so can be run for many thousands of points or grid cells. A journal paper was published on the tool, which is available at ccafs-climate.org. New CMIPS climate model data have been collated (from 17 climate models and 4 scenarios to 2100), and these are being processed. Both versions of MarkSimGM will be updated with these new data during 2013. Work also continued on version 2 of MarkSim, which will be based on more than 50,000 stations of historical rainfall data. These tools are starting to be widely used in the agricultural modelling community. With the addition of two new CCAFS regions, two reports were commissioned from INPE (Brazil) and the University of Oxford to evaluate the ability of the climate models to reproduce the observed climate in each region (Latin America and SE Asia, respectively). The object is to establish how reliable future climate and crop growth projections might be. These will be companion reports to those already published for E Africa, W Africa and S Asia (ccafs.cgiar.org/resources/tools-maps-models-and-data/testing-climate-models-agricultural-impacts).

Databases and database tools: work here contributes to much larger efforts by filling in key gaps that are of particular importance to climate change and food security work. There was theme-led activity in relation to soils (Washington State University and a 9,000 profile data set for agricultural modelling applications), agricultural systems (FAO and new maps of intensive cattle, chicken and pig production systems in the CCAFS regions), cropland extent (IIASA and crowd-sourcing technology geo-wiki.org, to produce a new hybrid cropland extent map), and rangeland extent (McGill University and the GEOSHARE project). ILRI used the household data collection tool Impact-Lite to collect detailed farming household data from about 200 households in each of the 15 CCAFS sites. These data, soon to be made publically available, will form a key resource for household modelling, as well as providing detailed systems characterisation information for all CCAFS sites. A data management strategy (DMS) was developed during the year, with guidance from Reading University, CIMMYT and the Consortium Office. Detailed guidelines to help implement the strategy are close to completion. The CCAFS DMS has already been widely disseminated (also to other CRPs), and links with other large research programs such as AgMIP and the Global Yield Gap Analysis project are being forged around data issues.

Decadal / near-term climate products: A cross-theme three-year initiative is underway to work on the science of seamless weather prediction over the near term, from 3 months to 20 years into the future. The work is led by the University of Cape Town. Scoping workshop was held in 2012, and two postdocs are now working on CMIP5 and African Coordinated Regional Downscaling Experiment (CORDEX) data. A CCAES working paper was published by researchers at the IRI on a method and software to generate

Output 4.2.2 Socially-differentiated decision aids and information developed and communicated for different stakeholders

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAES objectives

Activities under 4.2.2 were started through a call for proposals to review approaches to communications and social learning to support local decision-making on food security and climate change. IDS and IIED partnered on this activity and published a CCAFS Working Paper (No. 22) on current approaches to climate change communications and social learning. This work was used as a basis for an initial workshop in Addis Ababa with a diverse group of communications and knowledge management experts, as well as social and agricultural scientists. The workshop identified strategic intervention areas for CCAFS around socal learning ('change areas'). The workshop led to several activities that are documented on the Climate Change and Social Learning (CCSL) Wiki (http://ccsl.wikispaces.com/). The Sandbox, an online platform, has been established as a community of practice to explore innovative, risky ideas and provide seed funding for such ideas (this is championed by ILRI-KMIS, the knowledge management and information services). A CCAFS Working Paper on a review of social learning related activities within the CGIAR is being finalized - this work was presented and built upon during a second workshop in Addis Ababa in late 2012 (consultant, J. Gonsalves). Another CCAFS Working Paper is being finalized, examining the impacts of social learning approaches for monitoring and evaluation (IDS/IIED/IDRC). A long-term partnership agreement was initiated with Reading University to "develop participatory approaches to support farmer decision making and planning through the use of climate and weather information". Activities under 4.2.2 are collaborative efforts with Theme 4.1 - where more social learning (with Prolinnova) and working with innovative media (with Shamba Shape-Up). Also, Theme 4 is currently

finalizing a written and animated CCSL narrative 'transforming food systems', a policy brief and a donor synthesis. Theme 4 also proposed to organise the 2013 CCAFS annual science meeting on social learning and this is under way.

Objective 4.3 Refine frameworks for policy analysis

Outcome 4.3 New knowledge on how alternate policy and program options impact agriculture and food security under climate change incorporated into strategy development by national agencies in at least 20 countries and by at least 10 key international and regional agenciesat least 10 key international and regional agencies

Output 4.3.1 Climate change impacts assessed at global and regional levels on agricultural systems (socially and gender differentiated producers and consumers, and their natural resources), national/regional economies, and international transactions and potential of international and regional policy changes to enhance adaption and support agricultural greenhouse gas emissions mitigation

Prepare a succinct summary of activities and deliverables, organised

a. As part for the ongoing work under the "Global Futures for Agriculture" project, research fellows from 7 CGIAR centers, have delivered various parts of work (as explained analytically in the Theme 4.3 Activities report), under the general framework of evaluating and prioritize research investments, focusing on evaluating promising technologies, investments, and policy reforms, and taking into consideration the effects of climate change. To achieve these goals, the project has been enhancing a coordinated suite of biophysical and socioeconomic models including IFPRI's International Model for Policy Analysis of Agricultural Commodities and Trade (IMPACT), hydrology and water supplydemand models, and the DSSAT suite of process-based crop models to assess the potential returns to a range of possible investments in new technologies and policy and programs, covering the world's most important crops, forests, and livestock. Several integrated bio-economic modeling frameworks are under various stages of development for the respected crops (wheat, maize, groundnut, sorghum, rice, cassava, beans), for livestock, and for agroforestry, that all feed into the ex-ante evaluation of socio-economic impacts of existing and promising technologies. Relevant reports have been produced for the above thematic fields. Since the benefits to investments occur in the future, the project outcomes are being also used in several ongoing CRP priority setting exercises. b. As part of the the Agricultural Model Intercomparison and Improvement Project (AgMIP), and under its global economic modeling component, key global economic modelers have participated in a cross-model scenario comparison exercise based on climate model runs and socioeconomic scenarios for the Fifth Assessment Report of the IPCC. A set of six or more simulations have been developed to expose the models to a wide range of drivers. These are constructed on three orthogonal axes of socioeconomics, climate change and biofuels policies, with a simulation timeframe extending to 2050. Under this work, 6 papers are at submission stages, which answer to the follow questions; Where are the model results the same or similar, Where and why do they differ, with examples from key crops and countries, How do the three axes (socioeconomics, climate change, bioenergy) affect demand, supply, productivity, cropland etc. The above work has also resulted in significant changes to the leading crop modeling suite (DSSAT) and to the participating 10 leading global economic models. c. Research results from previous and ongoing work have seen major use in the Food Security and Climate Change report prepared by the High Level Panel of Experts (HLPE) of the Committee on World Food Security (CFS), FAO. The report discusses key actions that governments should take at both global and national levels in the nexus of climate

change and food security. It was presented during a special event in FAO, Rome, as well as during a special session of COP 18 in Doha, Qatar in December, 2012. Both events received significant attendance and coverage, with a potential to influence national policies and programs for many countries, and the decisions of the UNFCCC, as the report is further utilized.

Output 4.3.2. Analyses of the likely effects of specific adaptation and mitigation options, national policies (natural resource, trade, macroeconomic, international agreements) including gender/livelihood groups, and communicated to key local, national and regional agencies and stakeholders

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives Three Sub-Saharan African research monographs (East Africa, West Africa, Souther Africa) covering 29 countries, are to be released, and summary policy briefs are already available to policy makers. The monographs discuss the impact of climate change on agriculture, with a focus on finding adaptation options for policy makers. The work has been coordinated in collaboration with 3 regional organizations (CORAF, ASARECA, and FANRPAN) who now use the results within several national programs. The work was also presented to a large audience of stakeholders, and received significant coverage by media, during the "Agriculture, Landscapes and Livelihoods Day 5", at COP 18, in Doha, Qatar, in December, 2012.

Output 4.3.3. Capacity built at CGIAR, NARS, and international organizations to perform global and regional analyses of the effects of policy changes using tools developed in output 4.3.1

Prepare a succinct summary of activities and deliverables, organised by Output level of the CCAFS objectives

Several scientists, and research support staff from the CGIAR centers (Global Furtures for Agriculture Fellows, other research support staff), academic institutions (1 European), research centers (2) and international organizations (OECD), received training on the use of of the International Model for Policy Analysis of Agricultural Commodities and Trade (IMPACT), that has been developed at IFPRI. This took place both during 3 formal trainings, the Global Futures Annual meeting, as well as through maintaining a working relationship with participants. As a result, rigorous capacity building took place, in how to use the IMPACT suit tools, with gender mixed participants and large regional coverage.



List of publications that acknowledge CCAFS support

- (a) Each Program Participant must list all publications that acknowledge CCAFS support. Only include publications that came out in final version in the calendar year. Please do not include journal papers under review (submitted etc) or out in electronic format ahead of print, except of course for electronic-only journals.
- (b) Please try to format references in the Harvard style. A clear guide can be found here: http://libweb.anglia.ac.uk/referencing/harvard.htm
- (c) For journal articles, please indicate all of the references that are "green open access" with a single asterisk and those that are "gold open access" with a double asterisk. This is now a requirement from CGIAR donors. Green open access means that the authors have made a free copy available on a website. Gold open access means that the journal allows free download (either as standard practice or because the authors paid for it).
- (d) For all publications that are up online, please provide a web link if possible. This will help us to advertise your work more widely.

CCAFS Theme Led Activities Theme 4. Integration for Decision Making

	Туре	Citation identifier
	Journal papers	DOI 10.1007/s10113-012-0350-1
Publication 1		Citation
		P, Ainslie A. 2012. Scenarios as a Boundary Process for Improved ronmental Change 1-10. Published online 22 Sept 2012.
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Publication 4	Challinor A J, Campbell B and Aggarwal	erg E, Thornton P K, Nelson G, Kristjanson P, Kinyangi J, Jarvis A, Hansen J, P K. 2012. Climate change, agriculture and food security: a global partnership me agricultural producers and consumers. Current Opinion in Environmental Sustainability 4,1-6
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T ablication 3	development within an AIS approach.	n P. 2012. Redesigning a livestock research institute to support livestock PP 326-330 in: Agricultural Innovation Systems: An Investment Sourcebook. ank Agriculture and Rural Development Series
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Publication 6	Women's Livelihoods: A Review of the	n N, Tipilda A, Njuki J, Baltenweck, Grace D, MacMillan D. 2012 Livestock and the Recent Evidence. Chapter 9 in: Quisumbing A, Meinzen-Dick R, Raney T, A (eds) Gender in Agriculture and Food Security: Closing the Knowledge Gap. Springer, forthcoming
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	-	z. 2012. We're all in this together: shifting paradigms on science and Presented at Planet under Pressure, March 26-29 2012, London
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Publication 28	regional scenarios in CCAFS cross-scale resea	icksen, K. Kok, J. Ingram, M. Herrero, P. Kristjanson. 2012. The role of arch, planning and action toward improved food security, environments arch Program on Climate change, agriculture and food security (CCAFS), Copenhagen, Denmark.
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		sen, M. Herrero, M. Peters. 2012. Livestock, climate change, and resource of the International Livestock Donors Group, Washington DC, April 2012
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Dublication 27	Journal papers	Citation
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		Charles Manklin					
	Туре	Citation identifier					
	Other						
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	Туре	Citation identifier
	Working papers	
		Citation
Publication 45	2012. Wheat breeders and physiologists: O. Abo Economic modelers: B. Shiferaw, A	D. Cammarano, S. Asseng, M. Adam, R. Robertson, J. Jones, K. Boote. dalla, T. Payne, and M. Reynolds A. Palazzo, S. Robinson, G. Nelson, "Promising Wheat Technologies: a proach", A Report for Global Futures for Agriculture
	Typo	Citation identifier
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Publication 46		
rubiication 40	Murali Krishna Gumma. 2012. "Ex Ante Impact Selected paper prepared for presentation at the	, Samarendu Mohanty, MVR Murty, Tao Li, Harold Glenn Valera and of a Drought Tolerant Rice Variety in the Presence of Climate Change", e Agricultural and Applied Economics Association's 2012 AAEA Annual 12-14, 2012. Online: http://ageconsearch.umn.edu/handle/124745.
		Professional Confession
	Type	Citation identifier
	Working papers	
Publication 47		Citation
Tublication 47		I. Gastelo, and D. Harahagazwe (2012), Improved potato varieties for eport submitted to the Global Futures project
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	Type	Citation identifier
	Conference proceedings	
		Citation
Publication 48	potato varieties for Sub-Saharan Africa, prepar	Gastelo, and D. Harahagazwe (2012), Ex-ante evaluation of improved red presentation at the 9th Triennial Conference of the African Potato D June – 4 July 2013, Naivasha, Kenya.
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	Type	Citation identifier
	Conference proceedings	
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Publication 49	developing countries. Poster paper presente	rgeted interventions in food security crops – the case of potatoes in ed at the International Association of Agricultural Economists 2012 12, Foz do Iguaçu, Brazil. http://purl.umn.edu/125735

		Citation identifier		
	Conference proceedings			
		Citation		
Publication 50	Kleinwechter, U., C. Gonzalez, D. Enahoro, N. Swamikannu, S. Gbegbelegbe, B. Creamer, K. Mott. (2012), Agricultural technologies, climate change and food security in the developing world: In biophysical and economic modeling. Presentation at the Organized Symposium "Bio-economic roptions for enhancing agricultural development and food security under climate change in the Control International Association of Agricultural Economists 2012 Conference, August 18-24, 2012, Foz			
	International Association of Agricultura	l Economists 2012 Conference, August 18-24, 2012, Foz do Iguaçu, Brazil.		
Publication 51	International Association of Agricultura Type	l Economists 2012 Conference, August 18-24, 2012, Foz do Iguaçu, Brazil.		



2012 Case studies

Number of case studies to be submitted is dependent on budget size so please refer to the table on the explanatory notes. Each case study should be about half a page, and Program Participants are expected to build a portfolio of case studies over the years that demonstrate all different types.

CCAFS Theme Led Activities Theme 4. Integration for Decision Making

Title				Author
	Plausible futures for food security, livelihoods and environments in East Africa		Theme 4.1	
Туре	Capacity enhancement	Date (DD/MM/YYYY) 7/2/2013	Countries	Kenya, Uganda, Tanzania, Ethiopia, Rwanda, Burundi, Ethiopia
		7/2/2013		
Keywor	Future, scenarios, uncertainty, stake	holders, East Africa, governance	2	Photo URL
Introdu	ction/Objectives (400 characters)			
complex integrat emerge on gains develop Such qu • To exp Eastern • To bui	x and uncertain. What if governments, resion? What would be the impacts of this ki? Could tensions arise from Eastern Africa for their own narrow interests? How will ment or overexploitation in future scenar estions have been explored by a multi-sectore how future socio-economic and instifucia.	searchers, the private sector and ind of future on food security for search of future on food security for search of	d civil society in or the region's p out a future wh n to climate cha rocess initiated adaptive capacit	and climate change adaptation in developing regions such as Eastern Africa are East Africa take concerted action towards regional political and economic soor who live under pressures of climate change? What new challenges would here political and economic fragmentation continues and people in power only focus nge in the region? Will natural environments be diminished due to either by CCAFS with the following overarching objectives: by to climate change and impact food security, livelihoods and environments in towards improved food security, livelihoods and environments under future socio-
Descrip	tion of the project,procedures etc. (1100	characters)		
In this initiative, CCAFS has been working with Eastern African governments, civil society and farmers' organizations, the private sector, researchers and the media, as well as regional bodies such as the East African Community (EAC), to explore how different political and socio-economic futures for Eastern Africa may affect future food security and environmental change in the region, and how this may affect Eastern Africa's vulnerability to future climate change. By developing and using scenarios in a participatory manner, plausible alternate futures were co-created. These scenarios were used to outline and test new economic development pathways, as well as climate change adaptation and mitigation-related policies and strategies with diverse actors in the region to improve Eastern African food security, environments and livelihoods.				

Project results (be concrete as possible), innovate findings, novel outcomes and short discussion on the implication of these results (1100 characters)

Four scenarios were created by a diverse group of state and non-state actors participating in the process and then quantified for a number of indicators related to agriculture, food security and environments using two agricultural economic models, in collaboration with several CGIAR centres and the global change modelling community: GLOBIOM (developed by the International Institute for Applied Systems Analysis) and IMPACT (developed by the International Food Policy Research Institute). These scenarios are divided by two sets of uncertainties: 1) will Eastern Africa develop into an economically and politically integrated region or will the region be fragmented and divided?; and 2) will governments and non-state actors deal pro-actively or reactively with issues of food security and livelihoods and environmental change? Though many other key changes shape the scenarios, the combination of these uncertainties leads to the following four different, plausible futures:

- "Industrious ants" is a world where state and non-state actors are proactive and committed to regionalization. This scenario has many benefits for food security, environments and livelihoods, but new challenges emerge: there is a costly battle with corruption; the region struggles to create autonomous food security; and the emergence of East African power causes conflicts with global interests used to doing what they will in the region.
- "Herd of zebra" is a world where regional integration has developed, but the focus is mainly on industrialization and economic growth and little attention is given to food security, environments and livelihoods until crises occur.
- "Lone leopards" is a world characterized by fragmented but proactive governments and non-state actors that achieve scattered successes regarding food security, environments and livelihoods; however, there is much mistrust and instability.
- "Sleeping lions" is a world that sees self-interested governments and non-state actors turning a blind eye or profiting from regional and international exploitation of land and resources. This leads to public unrest time and time again, but never to structural change.

Some key insights emerged from these scenarios:

- The quantitative analyses indicate that even with highly proactive policies, global market pressures and changing populations will make it difficult to improve upon the current level of food security.
- Growing populations drive demand for many food products. Demand for poultry and milk increases with changing consumption patterns because of urbanization in the region.
- Foreign investments can either further damage or transform food security in Eastern Africa, depending on how they are managed by regional actors.
- In all scenarios even the more environmentally friendly scenarios regional policies prioritize food security and livelihoods over environmental health.
- It is, however, possible to minimize the degradation of ecosystems and still increase regional food self-sufficiency.
- Pastoralists face difficult prospects in all future scenarios and will increasingly move to other sources of income.
- In all of the scenarios, East Africa's demand outstrips production due to increasing populations and GDP. This means that in all the scenarios, East Africa will be importing many commodities.
- In all Eastern African scenarios, there is a tendency towards increased mixed and intensive agriculture and livestock among small-scale farmers. New policies and partnerships: toward improved food security, livelihoods, environments in East Africa

To use the scenarios for better decision-making on food security, livelihoods and environments, the CCAFS programme - with regional partners like the Society for International Development (SID-EA) and PANOS Eastern Africa (PEA) media network - organized workshops with policy advisors from six Eastern African governments and with key regional non-state across.

By starting with separate meetings with government actors and non-state actors, the process allowed each of these groups to make their strategic positions clear and to show where each group needed the other to improve the state of the environment and food security in Eastern Africa.

The participants in these workshops first outlined what future success would mean for the improvement of food security, livelihoods and environments in Eastern Africa. They then planned backwards from their desired goals, using the different scenarios as contexts, each with their specific challenges, limitations and opportunities. This adaptive planning process yielded diverse and creative strategies. It was important that these strategies be executable by collaboration between the participants and their organizations and governments. Based on the insights from the use of the scenarios in planning workshops, a large and diverse set of policy options for state and non-state actors emerged as being feasible in most or all future scenarios. Most of these featured collaborations between different national agriculture, environment and planning ministries, regional civil society and private sector platforms in the food security and environment sectors together with the East African Community and the Lake Victoria Basin Committee. The policy options also linked to on-going CCAFS research. Examples of these policies are:

- Supporting the East Africa Farmers Federation (EAFF) to have a more proactive and stronger voice in agricultural and food security policy processes, beyond being "observers" of EAC policy formulation, in order to more effectively serve their member farmers. This was supported by participants from agricultural ministries and civil society organizations.
- Setting up a permanent scenarios/strategic futures unit that reports to the EAFF and EAC and provides continuous strategic insight at the regional level in the way that the CCAFS scenarios process has done.
- Exchange programs between Eastern African agriculture ministries on:
- o Farmers' schools and associations: first organize exchange programs between ministries themselves and then between the farmers' associations involved in the programs. This links to the CCAFS "Farms of the Future" program (http://ccafs.cgiar.org/our-work/research-themes/progressive-adaptation/farms-future).
- o Knowledge exchange about indigenous, alternative, climate resilient crops between the ministries.
- o Exchange to learn about urban/peri-urban agriculture programs between the different EAC countries.
- Developing more inclusive, multi-sector climate communication outlets between the agriculture ministries, government met offices and regional media as well as linking to ongoing CCAFS efforts.
- A tree planting scheme between the agriculture ministries, the environmental ministries, the private sector and CCAFS.
- A proposal to the EAC to organise a regional ombudperson to help ensure more transparent institutions.
- Linking existing Early Warning Systems for food security to regional food reserve planning.
- A "West Wing" type TV program portraying a young dynamic woman leader of a vibrant EA federation, similar to the on-going efforts featuring agricultural researchers within the region and sharing their scientific knowledge with a vast East African rural TV audience through "Shamba Shape-up".

To help turn these robust policy options into realities, CCAFS and its partners SID and PANOS are facilitating the further development of collaborative plans between the ministries, regional bodies and non-state actors identified in the process. The initial focus for these continued engagements will be on 1) changing the role of the East Africa Farmers Federation in regional policy, 2) setting up a regional strategic futures unit for on-going support to the EAFF, the EAC and other regional bodies, 3) helping to develop knowledge exchange links between government agricultural, environmental and planning ministries and between governments in the region and 4) ensuring the usefulness of the scenarios process for national and sub-national decision-making.

CASE STUDY 1

Partners involved and their role (250 characters)

pireise paraneis rece involved in the process.

- Researchers from the CGIAR Climate Change, Agriculture and Food Security programme and the University of Oxford
- SID-EA
- PANOS
- Policy advisors from agriculture, environment, meteorology and planning departments,
- Farmers' organizations under the East African Farmers' Federation
- Private sector organizations such as the EHPEA and the Entrepreneurship & Leadership Foundation
- Regional governance bodies: the East African Community and the Lake Victoria Basin Committee
- · Regional research initiatives such as ASARECA
- Regionally active NGOs such as CARE, OXFAM and CARITAS
- Regional media, represented by the PANOS development journalism network
- Intermediary civil society organizations such as the Society for International Development

Links/Sources for further information

Web address: http://ccafs.cgiar.org/scenarios

See (open access article available at the link above): Chaudhury M, Vervoort J, Kristjanson P, Ericksen P, Ainslie A. 2012. Scenarios as a Boundary Process for Improved Food Security in East Africa. Regional Environmental Change. Published online 22 Sept 2012. DOI 10.1007/s10113-012-0350-1 http://ccafs.cgiar.org/blog/industrious-ants-or-lone-leopards

Title		Author	
The Climate change and Social Learning Initiative (CCSL): Unlocking the potential of social learning			Theme 4.2
Туре	Date (DD/MM/YYYY)	Countries	
Innovative non-research partnerships 15/02/2013			global
Keywords			Photo URL
outcomes, participation, social learning	g, learning tools, decision suppo	ort	

Introduction/Objectives (400 characters)

Challenges that can be characterized as complex, uncertain, ever evolving and complicated by a multiplicity of stakeholders and perspectives resist traditional approaches to leadership and management. They are 'wicked' problems that need non-traditional approaches to developing potential solutions. Wicked problem solving needs to be on going and flexible, and to develop collective understanding and response through consultative processes like social learning. Thus, iterative co-evolving approaches to research and engagement are not only necessary, but crucial to our success to enhancing food security in the context of climate change.

The emphasis on development outcomes within CCAFS raises incentives for alternative approaches to research and engagement. A social learning approach connects scientists and other stakeholders with communities and their knowledge. We are attempting to combine the best knowledge from the three worlds of research, development practice and the vast array of knowledge and experience available within communities themselves to strengthen networks and accelerate the learning process. Our objective is to explore the strengths and weaknesses of social learning to drive Theme 4 objectives – linking knowledge with action and exploring tools for local decisions –to move away from top-down communication processes, and to learn from innovative approaches across CGIAR.

Description of the project,, procedures etc. (1100 characters)

Late in 2011, Theme 4 issued a call for proposals to review current theory and practice of communications and social learning approaches. We received 300 proposals and a contract was awarded to researchers from IIED, IDS and the University of York. The CCAFS Working Paper describes incentives for CCAFS to support social learning and the likely challenges that we will face.

The findings were explored in a workshop in Addis Ababa in May 2012 that brought together around 30 people and 24 institutions (http://ccsl.wikispaces.com/) to discuss strategic investment opportunities for CCAFS in the area of social learning. The participants identified five areas in which CCAFS can strategically engage to catalyse change and these change areas have catalysed several of the on-going activities:

- 1. Document existing and past social learning processes and their results. Our first step was to create an inventory of case studies and analyze their lessons (Working Paper in early 2013 Julian Gonsalves)
- 2. Promote and embed social learning within CCAFS. Our first step was to use case studies from the above inventory to build list of good practices, organize an advisory group to advise CCAFS on CCSL, and identify partners. Another review was carried out by IDS/IIED/IDRC to explore how the impact of social learning can be assessed. We have established The CCSL Sandbox, a community of practice for sharing knowledge in this area which is also providing seed money to innovative initiatives. This includes the wiki (http://ccsl.wikispaces.com/) and a Yammer network in which 55 people with expertise in learning and communications, participatory processes, knowledge management, partner engagement and social learning, as well as agricultural and climate science, have been invited to discuss issues and approaches related to social learning. Existing or planned training and mentoring opportunities and other tools will be used to catalyze change. Theme 4 is organizing the annual CCAFS science meeting in 2013 around social learning.
- 3. Understand endogenous social learning processes at sites where CCAFS is working. Our first step was to evaluate where there are good opportunities for co-learning with communities and create guidelines for designing and assessing projects. For this work we engaged with Prolinnova, a network of partners engaged in promoting local innovation in agriculture and NRM (www.prolinnova.net/).
- 4. Understand how social differentiation is addressed in social learning processes. Our first step was to study experience with, and opportunities for, using social learning approaches to exploring social differentiation (Working Paper in early 2013 Alison Shaw).
- 5. Understand how different perceptions of time scales hinder or encourage social learning. Our first step will be to craft a theory of change encompassing short- and long-term adaptation to climate change and develop frameworks for thinking about timescales in social learning projects. A first step is the CCSL narrative 'transforming food systems' which is being finalized in written and animated graph in early 2013.

A second workshop in November 2013 in Addis Ababa included another wide range of participants, including members of six CRPs, who worked to identify pathways towards institutionalization of diverse ways of doing research, to bring different stakeholders into the research process, and to understand and use different ways of measuring success of social learning and related approaches within research and engagement. They also considered how social learning links with the IDO challenge in terms of collective efforts to measure and evaluate outcomes. They identified this as an important mechanism for turning high quality cutting edge research into development outcomes, and taking more responsibility for linking knowledge with action. The meeting lead to new partnerships, e.g. PROLINNOVA, Mediae (Shamba Shape-Up), IDS, IIED, UBC, Berkeley.

We also facilitated consideration of social learning in the following venues:

- A workshop sponsored by IDS, GEF, CDKN and CCAFS in Brighton in March 2013 on "Acting on what we know and how we learn for climate and development policy"
- A donor meeting organized by IIED and CCAFS in London in March 2013 on "Climate change and social learning: supporting local decision making for climate change, agriculture and food security"
- The CCAFS annual science meeting in March 2013 on "Rethinking science, learning and partnerships to meet development outcomes: reducing poverty and improving food security in the context of climate change"

CASE STUDY 2

Project results (be concrete as possible), innovate findings, novel outcomes and short discussion on the implication of these results (1100 characters)

Our main outputs and results in 2012 included four working papers, a community of practice, new partnerships, stronger networks, enhanced collaboration, innovative media and rethinking research including a plan to bring social learning to the CCAFS science meeting:

- A definition of social learning was jointly developed: knowledge sharing, joint learning and co-creation of knowledge between stakeholders, for behavioral change in networks and systems, facilitated and iterative process involving dialogue, exchange, action, reflection within the CGIAR is a step change because it is more than just a process of participation and inclusivity, it is a continuous, iterative process of co-learning and engagement across multiple levels.
- Working paper 22 that presents cases of social learning and climate change communication, and lessons they provide concerning incentives for CCAFS to support social learning approaches (Harvey B, Ensor J, Carille L, Garside B, Patterson Z, Naess LO. 2012. Climate change communication and social learning—Review and strategy development for CCAFS. CCAFS Working Paper No. 22. CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), Copenhagen, Denmark. Available online at http://cspace.cgiar.org/handle/10568/24456)
- A CCAFS working paper underway reviewing social learning-related initiatives and capacities already in place at CGIAR. The aim is to identify exciting approaches and connect pockets of innovation. Available online in early 2013.
- Endogenous social learning activities being piloted at CCAFS sites in collaboration with Prolinnova network of partners and the University of Reading. This includes inviting relevant partners in multi- stakeholder platforms to build local resilience to change in a farmer-led process and developing approaches to support smallholder decision making and planning through the use of climate and weather information.
- A CCAFS working paper underway that reviews projects across CGIAR that emphasize the knowledge and needs of different social groups, such as women. Available online in early 2013.
- The Sandbox is an online community where people are actively working with social learning ideas that are bubbling up. The Sandbox acts as a safe space for nurturing and exploring innovative, risky ideas, as well as for peer review. And it is not just talk The Sandbox offers seed funding for projects proposed on the forum. We see this as a step toward a self-organized 'community of practice' that tackles questions and assignments posted by CCAFS and others. See: http://ccsl.wikispaces.com/Sandbox. We are now 55 members on the sandbox, spanning at least 22 organisations. 24 are CGIAR members from 8 centres (CIAT, ILRI, IWMI, CIP, CIFOR, ICRAF, Bioversity, WorldFish). Sandbox outputs have included:
- o 313 messages on Yammer from 30 people
- o 20 documents shared
- o 5 notes (sort of wiki pages) and 2 pictures
- o Six news and opinion lists, three toolkits and tips, four resources for research and analysis
- o Wiki access in 2012 totaled 8.746
- A CCAFS working paper underway builds on the scoping study of social learning frameworks, and further examines the impacts of social learning projects and models for monitoring and evaluation. Available online in early 2013.
- A Research Brief underway "Climate change and social learning (CCSL): Supporting local decision making for climate change, agriculture and food security" outlining our thinking around climate change and social learning. Available online in early 2013.
- A Synthesis underway "Unlocking the potential of social learning for climate change and food security wicked problems and non-traditional solutions" highlighted CCAFS and partners' work with the CCSL initiative. Available online in early 2013
- The November 2012 workshop produced initial ideas towards developing the 'Transforming Food Systems Narrative' a way to tell the story of how social learning can enhance research and development outcomes. In 2013 the narrative will be translated into multiple formats, including animation suitable for Youtube. The narrative includes seven points: o People can be amazingly resourceful and innovative, given a supportive environment. Social learning draws on this untapped potential.
- o Unlocking this potential requires going beyond 'business as usual' and making use of diverse partnerships, multi-way communication, cooperation and collaboration.
- o If we want food security in a hotter world, we need to seize new opportunities for doing research differently. We can take participation further, to more proactive social learning through action and reflection leading to changed behaviors.
- o "Why bother?" Doing this can sharpen our edge and help us become better problem solvers of bigger, more complex problems.
- o The next steps involve shifting towards partnerships for joint observation, trials, modeling and experimentation. Trying new approaches is how we learn to make this happen.
- o We are asking people to embrace the idea of joint transformative learning and the co-creation of knowledge. Incentives and institutions also have to change.
- o In our vision of success, more scientists are engaged in broad partnerships, producing information that is more useful and more widely used. There is more mentoring of young people, more interactive science, and we all share our knowledge more generously.
- We have begun to work with innovative media. CCAFS is partnering with Mediae, the producer of Shamba Shape Up, a Kenya-based innovative 'makeover'-style television show with an audience of 11 million (www. shambashapeup.com/). The Shamba Shape Up crew follows and assists farmers making changes in their practices and business models. CCAFS is helping to incorporate climate change messages into future episodes.

Partners involved and their role (250 characters)

ILKI KIVI IIFD

IDS

IDRC

The Mediae Company Prolinnova

University of Reading

Consultants

Ftc

Links/Sources for further information

Yammer: https://www.yammer.com/ccsl/ (invitation upon request) Working paper 22: http://cgspace.cgiar.org/handle/10568/24456

wiki: http://ccsi.wikispaces.com

Title				Author
Baselines as a Tool for Establishing an Evidence	e-base for the CCAFS Theory of C	Change		Theme 4.2
Туре	Date (DD/MM/YYYY)	Countries		
Social differentiation and gender	13/02/2013			da, Tanzania, Ethiopia, Ethiopia, Senegal, Mali, Burkina Faso, Ghana, Niger, India, Bangladesh, Nepal
Keywords				Photo URL
pacity building, study design, standardization, qual	itative and quantitative tools, inc	dicators, bel		

Introduction/Objectives (400 characters)

The objective of the CCAFS baseline is to provide information by which CCAFS can monitor behavioural change at household, village and organisational levels over time at its 15 sites in the three initial target regions and 12 countries. The CCAFS baseline is the foundation of the evidence-base we need for measuring progress along the CCAFS impact pathway (i.e. towards meeting our IDOs). Development of an M+E system is a key strategy for CCAFS. The baseline data lends itself to capturing diversity in cross-site analysis rather than indepth site characterization, and focuses on contribution rather than attribution. Baseline efforts such as this are not intended to go into depth and explore complex relationships and research questions; they are broad but not deep. Beyond measuring behavioural change over time, they are useful for generating hypotheses to explore in further in-depth research in particular locations. The baseline contains three tools, a quantitative household survey, a qualitative village survey, and a qualitative organizational survey.

In addition to M+E, the design and implementation of the CCAFS baseline survey was influenced by the other key CCAFS strategies (social learning, partnerships, capacity strengthening and gender). Thus, the baseline was standardized for implementation by research organizations in each of the CCAFS countries so as to strengthen science partnerships and increase research capacity in our network. This included a guided first level of analysis of data from each survey by our partners, published and available via the CCAFS website. To meet the need to create international public goods, we are making all survey instruments and data freely available.

Description of the project,, procedures etc. (1100 characters)

Recognizing that changes in agricultural practices leading to enhanced food security is not something that will happen in just a few years, at the outset of the program and during baseline planning, we proposed revisiting the survey households and villages after 5-10 years, to assess what changes had occurred since the baseline survey was carried out. Our goal was not to attribute these changes to the program, but to be able to assess what kinds of changes had occurred and whether these changes were helping households and communities adapt to, and mitigate, climate change.

Our ex ante theory of change (the desired changes after 5-10 years we envisioned seeing in our sites) include the following:

- The existence of some assets (or more assets) that some households did not originally own as evidence of enhanced well-being levels of these households, particularly assets that help them adapt to climate variability and change (e.g. water tanks).
- More widespread ownership of communication technologies that can be used to receive information helping them adapt; storage facilities and water harvesting/storage structures
 to enhance household food security.
- Evidence of increased diversification of livelihood sources and new sources of income (including by more vulnerable households), e.g. payments for ecosystem services (i.e. carbon, biodiversity); some evidence of a shift from subsistence to more market-oriented and food secure livelihood strategies.
- Evidence of crop, tree, livestock, aquaculture 'substitution' strategies and shifts in how, what and when people plant as adaptive strategies.
- Evidence of new, and more, soil, water, land management practices being implemented by more households.
- Evidence of improved food security situations in more, and in vulnerable, households and communities.
- More households (including more vulnerable ones) accessing and using advanced information about weather, pests and diseases
- More households (and women) engaged in groups that are collectively engaged in soil, water, land management/improvement activities.
- Improved access by more households to improved seeds, agricultural markets, credit for SLM activities and insurance.
- Evidence of improved availability and quality of, as well as access to resources (e.g. natural, infrastructure, markets) of communities in general and women in particular.
- Evidence of enhanced alignment between institutional agendas and local priorities with respect to food security and NRM.
- Evidence of organizations allocating more resources specifically to climate change agendas.
- More widespread availability of information and services that support local decision making on climate change and food security.

We placed emphasis on the standardisation of tools, processes and guidance on initial analysis. With the support of the Statistical Services Centre at Reading University high investments were made in the training of local teams and technical backstopping of data collection, cleaning and analysis in order to maintain data quality and allow for cross-site comparisons. The importance of building strong partnerships to ensure high quality data collection, documentation and analysis emerged as key component of this process. Furthermore, the baseline process has been well documented, all tools, training materials, implementation guidelines and analysis guides have been made publicly available via Dataverse. Dataverse proved to be an excellent archiving tool for socio-economic data and is now being used across CCAFS to archive and make publicly available these types of datasets.

Household Survey. The objective of the household-level survey was to collect baseline information about some basic indicators of welfare, information sources, livelihood strategies (including agriculture and NRM strategies), needs and uses of climate and agricultural-related information and current risk management, and mitigation and adaptation practices. The indicators needed to have sufficient precision to be able to measure changes that occur. The various components of the survey include information on household size, type and education levels; household assets; sources of livelihood; natural resources access and management; adaptation strategies relating to crops, livestock, aquaculture, agroforestry, and land management; food security and risk; information and knowledge; and social networks.

Village Survey. The objective of the village-level survey was to collect community level information, gender-differentiated, on basic indicators of availability and quality of resources, access to these by men and women, as well as limitations and opportunities – these would allow us to monitor changes over time. High resolution satellite images were using in participatory workshops with groups of men and women. Furthermore, the aim was to understand the enabling environment that mediates certain practices and behaviours and creates constraints and opportunities for communities to respond to change. Thus, organisational landscape characterise how organisations operating at different scales engage with the community on food security and NRM and how these are interlinked to provide improved access to services and information.

Organizational Survey. The objective of the organisational level survey was to collect information on organisations working within the sites, their priorities, climate change agendas and target groups. Specifically, the organisational baseline was designed to provide indicators that allow us to monitor changes in the behaviours and practices of locally relevant organisations over time, as well as to understand the provision of information and services at the local level that informs farmers' decision making about their livelihood strategies in response to climate change.

CASE STUDY 3

Project results (be concrete as possible), innovate findings, novel outcomes and short discussion on the implication of these results (1100 characters)

To date the baseline survey has been completed in the 15 CCAFS sites in 12 countries in South Asia, West Africa and Eastern Africa. The household survey was implemented in seven villages (n=105) and 140 households per site, amounting to 105 villages and 2,100 households across all our sites. The village baseline was implemented in one village per site (n=15) with a nestimated 75 gender-differentiated focus group discussions with over 1,200 participants across all CCAFS sites. The organizational baseline was implemented at the site level (n=15) and included an estimated 150 organizations. The CCAFS baseline will be implemented in the new CCAFS sites in Latin America and South East Asia in 2014.

All baseline data and associated tools (including survey instruments, guidelines, training materials, analysis guides and syntax, etc.) are freely available on the CCAFS Dataverse (http://dvn.iq.harvard.edu/dvn/dv/CCAFSbaseline). Our aim is to ensure that all baseline material is publically accessible, freely available, archived into perpetuity, and accompanied by a unique individual 'fingerprint' which allows data ownership.

In 2012, the CCAFS baseline tools and data have been downloaded from Dataverse over 2,800 times, by 217 different organisations and 158 individuals within these. Our partners, as well as over ten groups of students not directly linked to CCAFS, are using the CCAFS baseline data for further analyses and publications. Other actors are using the CCAFS baseline instruments at new sites (e.g. IUCN in Mozambique, ICRAF in Central America), supported by CCAFS and Reading University with training and technical backstopping. CCAFS teams and national partners are using the first level site reports to plan activities and catalyse additional partnerships with others (e.g. PAR).

Experimenting with Dataverse for CCAFS data management has led to it being the primary data platform for socio-economic data across the majority of CRP's and CG centres. The CCAFS baseline process and experiences have significantly contributed to the formulation of a CCAFS Data Management Strategy in 2012 (with Reading University in the lead); data management guidelines to support the strategy are being finalized in early 2013.

Through the baseline experience we have learned about the importance of strategically engaging in and supporting partnerships at multiple levels, the importance of institutional buy-in to the process, and the importance of investing in baseline design, including tools, training, technical backstopping, documentation, and data management.

The process was long, complex and expensive, and while mistakes were made, important lessons were learned in identifying indicators of behavioural change at multiple levels that can be revisited through time to evaluate program performance in the next 5-10 years. In 2013, based on these experiences, the baseline tools are being enhanced and the indicators are being compiled to directly contribute towards achieving the CCAFS IDOs.

Outputs include

- Patti Kristjanson, Henry Neufeldt, Anja Gassner, Joash Mango, Florence B. Kyazze, Solomon Desta, George Sayula, Brian Thiede, Wiebke Förch, Philip K. Thornton and Richard Coe. 2012. Are food insecure smallholder households making changes in their farming practices? Evidence from East Africa. Food Security, Volume 4, Issue 3, pp 381-397. Available online at: http://link.springer.com/article/10.1007%2Fs12571-012-0194-z.
- Two additional journal articles are in preparation to be submitted for publication in early 2013.
- CCAFS Data Management Strategy and Guidelines
- Blogs

Partners involved and their role (250 characters)

SSC, Reading

EA: ICRAF, KARI, MARIL, SARI, NARO, Makarere University, Maseno University, University of Dar es Salaam WA: ICRISAT, INSAH, INRAN, ISRA, INERA, CSIR-SARI, High Commission of Niger Valley Development, MRSI, IER SA: CEAPRED, ICRISAT, ICAR, Livelihood Solutions, BCAS

Links/Sources for further information

CCAFS Baseline: http://ccafs.cgiar.org/resources/baseline-surveys Dataverse: http://dvn.iq.harvard.edu/dvn/dv/CCAFSbaseline 2

Title			Author
Identifying key national and sub-national information for decision making on adaptation strategies			Theme 4.3 Ioannis Vasileiou, ALL-5 website
Туре	Date (DD/MM/YYYY)	Countries	
Successful communications activities 3/12/2012			Context: West, East & Southern Africa, Place of the event: Qatar
Keywords			Photo URL
modeling, adaptation, scenario-building, nat	ional climate change adaptation p		

Introduction/Objectives (400 characters)

As part of the "Agriculture, Landscapes and Livelihoods Day 5", which took place at the COP-18, in Doha, Qatar, December, 2012, the results of three Sub-Saharan African Research Monographs (East Africa, West Africa, Souther Africa) covering 29 countries, were presented by the project collaborators, and discussed with a broad audience of participants.

Three regional presentations were made by the panel, covering East and Central Africa, West Africa, and Southern Africa. The presentations focused on the findings from the research monographs which studied the impact of climate change on agriculture, with a focus on finding adaptation options for policymakers.

Description of the project, procedures etc. (1100 characters)

There are three sets of high level results from the analyses undertaken for this project.

The first set of results is about the need for adaptation to climate change. It is clear from the analyses undertaken that climate change will require substantial adaptation efforts but these should be done in the context of dealing with the larger sustainable food security issues facing the countries in Sub Saharan Africa. Strong economic development, as reflected in the optimistic socioeconomic scenario, increases human well-being across a range of metrics. Climate change reduces the benefits from good economic policies and programs so adaptation efforts need to be part of sustainable development.

The second set of results is about the need for national and subnational analysis. The climate change results differ, sometimes dramatically, in the countries included in the analyses. So policy and program advice and investments must be tailored to country needs. This is perhaps most evident in the recommendations developed by the country authors. While the need for adaptation is recognized across all reports, the specifics of the adaptation needs as recognized by the country authors are quite different.

Finally, as indicated in several of the previous sections, the data needed for good analysis and national decision-making are not available. The lacunae range from climate variability through basics on natural resource conditions and change to information on economic performance and human well-being.

☐

Project results (be concrete as possible), innovate findings, novel outcomes and short discussion on the implication of these results (1100 characters)

Key messages that came out of the discussions that took place during this outreach event include: -Multidisciplinary quantitative and qualitative modeling, that incorporates climate, crop and livestock and socioeconomic disciplines, is necessary to facilitate informed climate change decisions on adaptation despite uncertainties associated with climate change assessments

-National Climate change adaptation policies must be informed by localized climate and socio-economic knowledge

There is great need to collect, synthesize and transform climate, and socio-economic data and to identify and address critical data gaps in order inform climate adaptation policies

-Governments and international agencies need to invest more in developing crop varieties and improved techniques, and support extension efforts to communicate findings

CASE STUDY 4

	Partners involved and their role (250 characters)	
	Presenters at the event: Natural Resources Policy Analysis Network (FANRPAN) West and Central African Council for Agricultural Research and Development (CORAF/WECARI	Food, Agriculture and
	The Association for Strengthening Agricultural Research in Eastern and Central Africa (ASAREC Research Institute (IFPRI)	
	Leibniz-Cent German Agency for International Coop	er for Agricultural Landscape Research (ZALF) eration (GIZ)- Bilateral Donor
	Links/Sources for further information	
	IFPRI Research Monographs (29 countries): West/East/Southern African Agriculture a	

Title				Author
	Household level data collection usin	g ImpactLite in 15 CCAFS core s	ites	Theme 4.2
Туре		Date (DD/MM/YYYY)	Countries	
	Capacity enhancement	7/3/2013	enya, Ethiop	oia, Uganda, Tanzania, Niger, Senegal, Ghana, Mali, Burkina Faso, India, Nepal, Banglade
Keywo	ords			Photo URL
	household surveys	, characterization		
Introd	uction/Objectives (400 characters)			
ILRI sci	ientists developed a household survey to	ol and worked with multiple par	rtners to implem	ent it in 200 households per site, for a total of 3000 households across the regions of
East Af	frica, West Africa, and South Asia. The ob	jective was to characterize liveli	ihood activities i	n the CCAFS sites for climate change studies. Working with multiple partners provided
the on	portunity to build capacity in the regions	for detailed survey implementa	ation.	

Description of the project, procedures etc. (1100 characters)
In eliki team selected partners at each site and then conducted one enumerator training per site to familiarize them with the survey tool and explain now the information was going to be used during analysis. These in-country trainings helped build the capacity of the enumerators and their institutions, which improved data collection. The partner institutes were mostly national agricultural research organizations, namely: Institut National de la Recherche Agronomique du Niger, Institut d'Economie Rurale (Mali), Savanna Agricultural Research Institute (Ghana). Institut Sénégalais de Recherches Agricoles (Senegal) and Selian Agricultural Research Institute (Tanzania). Other CGIAR centres narticinated by helning

Project results (be concrete as possible), innovate findings, novel outcomes and short discussion on the implication of these results (1100 characters)
The shared learning taking place throughout the project is a novel approach to capacity development across Chiak centres and with non-Chiak partners. Since the completion of data collection, several other CGIAR centres (IFPRI, Bioversity, ICRISAT, and ICRAF) have come to the ILRI team to request different types of support: how to conduct trainings, to share data, to handle data, to analyse data, etc. Another result is the compilation of a representative and cross-CCAFS site database of 3000 households, which multiple scientists can cross. Finally an important result is the tremendous notential for analysis using this data. In terms of characterization, this data will be used to compare the sites in terms of agreed

Partners involved and their role (250 characters)

ICRAF: providing personnel and support for trainings

IWMI: providing personnel and support for trainings IITA: providing personnel and support for trainings

Links/Sources for further information

Kutino, M.C., et al. 2013. Developing generic tools for characterizing agricultural systems for climate and global change studies (IMPACTIBLE - phase 2). CCAPS Progress report. Available at https://www.dropbox.com/sh/sa4uzf6mr0fy7xq/w-DIUOISpf.

Rufino, M.C., et al. 2012. Developing generic tools for characterizing agricultural systems for climate and global change studies. CCAFS Report.

Rufino M C et al 2012 Impactlite Training Manual CCAFS Working Docum



2012 Outcome report

Frequency of reporting outcomes is dependent on budget size so please refer to the table on the explanatory notes. (max 1 page)

CCAFS Theme Led Activities Theme 4. Integration for Decision Making

What is the outcome of the research (use of research results by non-research partners)?

Many news stories around the world focused on the impact that climate change will have on agricultural commodities and natural resources in early Nov. 2012. The overall effect of the story was to emphasize the point that climate change is a critical issue and that its impact on agriculture must be addressed, an important message leading up to the UNFCCC CoP in Doha at the end of Nov. and early Dec. 2012.

What outputs produced in the three preceding years resulted in that outcome?

Working Paper 23 "Impacts of climate change on the agricultural and aquatic systems and natural resources within the CGIAR's mandate" and Policy Brief 6 "Reclibrating food production in the developing world: Global warming with change more than just the climate" were the main catalysts for the resulting news stories

What partners helped in producing the outcome?

A total of 72 scientists from all 15 CGIAR centres contributed to the Working Paper, and Burness Communications assisted in garnering media coverage for the release of the publications.

Who used the output?

OUTCOME 1

Reporters used the publications for their stories. Original news stories ran in at least 20 countries and in 9 languages. It became the 2nd most shared story on the BBC website on the day of its release and was shared more than 8,700 times on Facebook. There were 15 different interviews with 6 CCAFS individuals. There were also many visits to the CCAFS website to view the publications. The Policy Brief has received 4,202 views (as of 11 Feb. 2013), and the Working Paper has been viewed 3,052 times (also as of 11 Feb. 2013).

How was the output used?

Media companies used the reports as a basis for their news stories, which were then shared on Facebook and Twitter. It appeared on 10 wire services, 6 broadcast stations, 22 print stories, and 60 online news sources.

The release of the Working Paper coincided with GCARD2, and it served as a basis for discussions among other climate change initiatives at international, regional and national levels about the need for working together effectively to address climate change impacts in agriculture. The WP also inspired a piece in the New Agriculturalist online magazine (http://www.new-ag.info/en/focus/focus/tem.php?a=2875).

What is the evidence for this outcome: Specifically, what kind of study was conducted to show the connection between the research and the outcome? Who conducted it? Please provide a reference or source.

Burness Communications produced a media report detailing all the coverage received (see the report here:

https://www.dropbox.com/sh/4k5ec6ew76iqwi8/YoLRNvreOk titled "CCAFS Two Reports -- 31 Oct. release -- Final report"). Statistics for the numbers of views of the WP and PB are available from the CCAFS website.

What is the outcome of the research (use of research results by non-research partners)?

New participatory gender-focused action research is being designed in some CCAFS sites using the results of CCAFS gender studies to inform the design of interventions and actions aimed at benefitting rural women.

What outputs produced in the three preceding years resulted in that outcome?

(Actually it has only been 2 years). New gender and climate change research in agriculture and food security for rural development tools and training materials were made freely and widely available on both CCAFS and FAO's websites. Gender-CC research teams were trained (and are now trainers themselves) and methods tested by CCAFS local partners in Bangladesh, Uganda and Ghana. 5 CC-gender studies were undertaken by CCAFS grantees based in partner NARs and University organizations in 5 countries in 3 CCAFS regions, building new gender research capacity in these institutions.

What partners helped in producing the outcome?

FAO, local NARs and University partners in 8 CCAFS countries

Who used the output?

OUTCOME 2 (T4.1)

CCAFS and FAO research, government and non-governmental partners in East Africa, West Africa and Bangladesh, including CARE Int'l, KARI, BCAS, INSAH.

How was the output used?

This research is informing the design of interventions and actions in CCAFS sites explicitly aimed at benefitting women. For example, CARE Int'l has used the results of this work to inform the design of a new, East African Climate Smart Agriculture project.

What is the evidence for this outcome: Specifically, what kind of study was conducted to show the connection between the research and the outcome? Who conducted it? Please provide a reference or source.

No study has yet been carried out to show the connection between the research and the outcomes, so these outcomes are based upon discussions and in workshops with partners that are equally dedicated to having positive impacts on gender and social differentiation as is CCAFS. CARE Int'l has expressed interest in extending our current collaborative gender work in Kenya (in a CSA project) to other CCAFS countries, including Tanzania, Ethiopia, Ghana and Senegal. Other evidence is indicated by the extensive number of downloads of "Gender and Climate Change Research in Agriculture and Food Security for Rural Development Training Guide". The guide was downloaded 2,343 times between March and early October. Based on the results of the research while testing the guide, CCAFS working papers were published on gender and climate and a manuscript was drafted for submission to a peer-review journal in 2013. A presentation was also made at the Community Based Adaptation 6 conference held in Hanoi in April to highlight the research findings. The training guide has now been translated into French and Spanish. It is available at:

< http://ccafs.cgiar.org/blog/gender-climate-change-and-food-security> and < www.fao.org/climatechange/micca/gender> (a) the control of the



Gender and Social Differentiation related activities summary report -2012

CRPs that have presented their Gender Strategy to the Consortium in 2012 should show progress in 2013 in relation to implementing the Strategy. Therefore it is expected from Program Participants that findings of gender and social differentiation activities and their significance to be referred in this summary report. It is essential to relate progress towards outcomes to the baseline gender-differentiated conditions being used to measure change. This report should also refer specifically to what is being learnt about gender and how this knowledge is being used to inform research priority-setting and approach. If none or few of your activities integrate gender please explain why it is not relevant to your research portfolio.

CCAFS Theme Led Activities Theme 4. Integration for Decision Making

CCAFS has made significant progress in 2012 towards integrating gender analysis across all research themes in accordance with its gender strategy. Analysis of the CCAFS village-level and organizational-level baseline work that incorporated gender was carried out by Theme 4 in 2012, and the data and reports made freely available to the world on Dataverse. Most of the centres are in the process of recruiting new gender specialists and are developing new gender-targeted work within CCAFS. Many centres were involved in the implementation of the IMPACT-Lite household farm characterization survey that has key gender components, across 13 countries and 15 CCAFS sites in 2012. The core CCAFS team has boosted its capacity in gender research with the addition of 2 internationally recruited scientists with strong gender research experience. Theme 4.1 gave grants to 5 post-doc female researchers in local partner institutions and is continuing to support publications based on the results of their research.

CCAFS catalysed collaborative research and capacity development for shared research standards and tools - IFPRI, ILRI and ICRAF all helped develop a new gender-disaggregated intra-household survey and train local partners in these new, open access intra-household gender tools. This work will be implemented in sites in 4 CCAFS regions in 2013 in Uganda, Kenya, Bangladesh (with other CRP's) and Senegal.

Theme 4.1 has also catalysed and provided technical assistance to the regional programs in the 'bottom-up' joint development (with local partners, including organizations with similar gender goals) of impact pathways with explicit gender strategies and targets in all our sites, and indicators and approaches for monitoring them

CCAFS is working closely with all the centres through the gender network to develop a working paper series (and a special journal issue) highlighting significant CCAFS and CG gender research results. We are planning with AWARD to train some of their 'master trainers' in the new gender research methods we jointly designed and tested with FAO in 2011-2012 (participatory methods) and more quantitative intra-household tools with CCAFS's 'gender advisory group' (made up of CG, University and other gender experts) in 2012 in order to scale these out broadly with local partners across Africa.

The proposed IDO in CCAFS that is focused on gender is 'Enhanced women's access to and use of agricultural and climate-related services and information through strengthened linkages to institutions, programs and interventions beyond the village level'. In brief, the theory of change is as follows: we will help support local, national and regional partners with gender and pro-poor approaches (improved gender-disaggregated data, analyses and methods, but also communication, engagement, capacity and M&E strategies), so that research is more likely to benefit women and other vulnerable groups in CCAFS's target areas. Because we undertook comprehensive baselines (at household, village and organizational levels) in all our sites, we will be able to measure the change in this IDO in several years when we repeat these surveys with the same participants. Key findings:

- Men and women are seeking different kinds of agricultural/weather/food security-related information
- Women tend to associate with fewer external organizations than men (i.e. with linkages that go beyond village-level)
 Adaptation to climate change is gender-specific, and support for adaptation has to be, too. Climate change must take into account power/social inequality underlying conditions. It is not a "technology" issue, only.
- Natural resources, and the perceptions of natural resources, are social/gender-based constructions that depend on the socially defined roles that men and women play.
- Women are getting information predominantly from personal sources and men more from organizations
 Climate change information should not be limited to "weather". In every site the men have mentioned something about the start of rains but women do no mention this much at all; in five of the sites women have mentioned
- · Adaptive technology should not be concentrated only on "major" crops

We are developing tools that allow us to collect qualitative and quantitative gender-disaggregated data to meet the information needs of all of CCAFS themes. In 2012 we synthesized results from the jointly developed participatory gender study in Uganda, Ghana and Bangladesh. In this pilot study participatory tools were used for a socio-economic and gender analysis of topics related to agriculture and climate change: climate smart agriculture (themes 1 and 3), climate analogue approaches (theme 1) and climate forecasting (theme 2). We found that:

- Smallholder farmers are changing their agricultural practices due, at least in part, to changes they are observing in their climates and environments
- Although agriculture is managed at the household level, men and women have different roles and are adopting different types of changes in agricultural practices depending on their roles.
- Women are less able to adopt new practices because of financial or resource constraints, and because of male domination in receiving extension services
- The climate analogue approach is a promising tool for increasing farmer-to-farmer learning in areas where a high degree of environmental and climatic variability means that analogue villages exist nearby.
- Overall farmers prefer to learn from neighbors who have successfully adopted new climate smart agricultural practices.
- Indigenous knowledge remains the most important source of weather and climate information.
- Important gender disparities remain in terms of women's ability to access scientific forecast information, and understand its content.
- Institutional issues related to forecast production limit the credibility and salience of seasonal forecast information.

In 2012 Centre findings on gender and climate change fell into five main categories that are providing important information regarding women: roles in decision-making, climate perceptions, risk and vulnerability, adaption and adoption, and access to technology and information. Key findings

- Gender norms and relations are determined by culture and tradition, and play important roles in determining inequalities in resource endowment and decision-making.
- It is important to know the particular contributions of household members to family decisions, and the criteria used to make decisions. • Male and female farmers have different perceptions about changes in climate, accounting for variations in their adaptation and coping strategies.
- Female-headed households are more likely to be food insecure, and this cannot be explained by the differences in observable endowments alon
- Women farmers adopt new technologies and used them not only to enhance agricultural productivity, but also to reduce drudgery and generate employment opportunities through collective action.
- There are gender differences in where and how information on agricultural technologies is obtained.
- Even when they are equally aware of technological options, women appear to have less access to and uptake of production technologies.
- Women, particularly when heading households, are disadvantaged in comparison with men in access to extension, and past and current extension approaches are failing them.



Theme Leader Summary by Output - 2012

Theme Leaders will report on the same categories before, following the reporting depth of "Medium" in the explanatory notes. In addition, Theme Leaders will provide a synthesis of all Program Participant activities, arranged by Output as per the CCAFS logframe. These reports will be 3-5 pages.

Theme 4. Integration for Decision Making

Objective 4.1 Explore and jointly apply approaches and methods that enhance knowledge to action linkages with a wide range of partners at local, regional and global levels

Outcome 4.1: Appropriate adaptation and mitigation strategies mainstreamed into national policies in at least 20 countries, in the development plans of at least five economic areas (e.g. ECOWAS, EAC, South Asia) covering each of the target regions, and in the key global processes related to food security and climate change

Output 4.1.1 Future economic development scenarios taking climate change into account, and vulnerability maps and analyses incorporating a changing climate and food security issues shared with decision-makers at national, regional and global levels and informing regional economic development and national food security plans and policies

4.1.1 Scenarios

Much progress has been made in East Africa in 2012 in the scenarios-related activities led by the University of Oxford team. Twenty-one participants from NGOs, and 16 technical advisors to policy makers from ministries in the East Africa Community (EAC) received training in the use of regional environmental and socio-economic scenarios for the development of policies and collaborative action plans. These planning workshops aimed at building strategic capacity for participants and their organisations and ministries, to build partnerships among state and non-state actors and to come to real collaborative actions. The workshops we led in partnership by CCAFS, Oxford, and the Society for International Development (SID) with media coverage in newspapers and on video by PANOS. Strategic planning workshops with such participants has resulted in formulation of policies and strategies for the region, as well as potential for future partnerships between EAC partners (state and non-state) and on-going CCAFS activities. These engagement workshops have been successful in that many participants felt that they had learned about new "practical, concrete" and "brain teasing" techniques such as back-casting or backwards planning. Participants mentioned that they have learned how to create strategies for the region in an "interactive" and "enlightening" manner. Participants also thought that the scenario outputs "would be useful for, and gain credibility with, planners and decision-makers seeking legitimate information before making choices". The workshops allowed potential partnerships to be identified, and for CCAFS to engage partners to take forward certain strategies for policy implementation. These plans are taken forward through facilitation by SID supported by CCAFS in a "continual engagement" process. As a result, several policy champions have been identified that CCAFS can work with in the future to create policy impact. These champions include Alais Morindat from the Tanzania Natural Resource Forum, Wivine Ntamubano, environment officer from the EAC, and Abner Ingosi who develops Kenya's food security policies for the Ministry of Agriculture, Kenya. Ms. Ntamubano in particular mentioned that the scenarios will encourage. "Work with non-state actors, and [help] consider environmental issues as key priorities not only on paper but with appropriate budget." She reported that she gained two key insights from the workshop for guiding EAC budgeting discussions – that EAC policies are heading toward one of the CCAFS scenarios and that this brings particular challenges, and that partnerships with non-state actors would be crucial under multiple scenarios

Provide a synthesis of all Program Participant activities pertaining to this output as per the CCAFS logframe. These reports will be 3-5 pages long (max. 30,000 characters).

In order to increase awareness about the scenario development process and highlight policies and strategies that have been derived from the use of scenarios that could be applied by NGOs and ministries in the EAC, numerous communication products have been created about the scenario process in East Africa. Many of these products were developed in partnership with Panos Eastern Africa. Knowledge products include a journal article, policy brief, report, workshop reports, conference presentations, newspaper articles, blogs, and multi-media products (e.g. cartoons, trailers, radio programs, and wikispaces).

Qualitative scenario storylines for West Africa have been developed with a strong group of state and non-state actors, and quantitative inputs for the GLOBIOM and IMPACT models have been generated with these participants in a second workshop. The scenarios are in the process now being quantified through modelling, and plans for a first policy planning workshop are underway. Oxford and CCAFS have also identified a range of key stakeholders across food systems in South Asia to move the scenario development process in South Asia forward through a workshop on 29 November – 1 December 2012. This will be followed by a scenarios quantification workshop in early 2013.

The CCAFS regional scenarios are being used beyond the CCAFS regions, to engage foresight processes and research communities at the global level and in specific research projects:

• The CCAFS scenarios will function as a main platform for collaboration with the new global FUTURF FARTH program that will replace the FSSP, since the scenarios explore

Output 4.1.2 Evidence on, testing and communication of, successful strategies, approaches, policies, and investments contributing to improved science-informed climate change-agricultural development-food

security policies and decision making

4.1.2 Linking Knowledge with Action

The CCAFS regions have taken the lead in facilitating implementation of participatory action research (PAR). PAR was established in the 15 CCAFS sites. Gender-sensitive activities related to risk management, adaptation and mitigation were implemented, with engagement and communication strategies aimed at users of the knowledge generated pursued and scaling-up mechanisms put in place. The milestones in this output are created primarily through joint activities within the CCAFS regions, although we are also engaging in cross theme, cross CRP and global collaborations. As a result, the outcomes in the process of evolving from this output fall into the areas of Theory of Change, Innovation and Social Learning.

In East Africa, in order to develop community-level capacity for PAR and improve the implementation of site-specific research with a broad range of partners across the CCAFS sites, the regional program commissioned a study undertaken by PICO Eastern Africa. Field visits were completed in three sites - Nyando, Lushoto and Borana - where informal interviews were carried out with partners and communities. An assessment and mapping of the local partners was undertaken, highlighting some of the key partnership challenges across the sites. Findings from the study will inform on-going and future PAR activities in the region.

Provide a synthesis of all Program Participant activities pertaining to this output as per the CCAFS logframe. These reports will be 3-5 pages long (max. 30,000 characters). The regional program in West Africa partnered with ICRAF and ICRISAT to undertake a PAR project to test and validate in partnership with rural communities and other stakeholders, a scalable climate-smart model for agricultural development that integrates a range of innovative agricultural risk management strategies. Following an inception and planning workshop in February 2012 for three countries - Mali, Ghana, Burkina Faso - a country work plan was developed for each of the three participating countries. National workshops involving local key stakeholders were later held in each country to refine and validate the work plans developed during the regional workshop. Activities planned in these work plans were implemented during the rainy season 2012 in and included: baseline studies, land reclamation tests, naturally assisted tree regeneration, tree planting, improved crop varieties tests, training activities (more than 50 farmers trained, 2 MSC students trained), and farmers' exchange visits (3).

In South Asia the approach to PAR is to constitute self-help farmers groups, including women members, with whom several risk management strategies were piloted in 2012. This included on-farm testing of wheat and rice germplasm, mung bean incorporation in the cropping pattern, need-based nitrogen application methods, residue incorporation in the field, agro-forestry plantations, weather forecast and agro-advisories via cell phones, index-based insurance and gender empowerment are some of the key interventions in Vaishali. Zero tillage of wheat, varietal testing and evaluation of rice, wheat, potatoes and fodder, laser levelling and need-based nitrogen application in rice and wheat gave promising results in Rupandehi, Nepal. The assessment framework for understanding gendered differences in climate risk comes as a part of the 'Smart Farm' project in Bangladesh where there is a strong community buy-in to the 'Fish Ring' component of the project. There is also strong evidence of women's involvement in these projects. Conservation agriculture in Karnal is picking up. Farmer's fair day is organized twice a year in these sites to showcase the interventions to neighbouring farmers, extension agents, government institutions, private agencies and media. Technology dissemination through participatory videos has been very successful and a large number of farmers have shown their deep interest to practice these climate smart technologies in Bihar.

In 2012 Theme 4.1 began providing technical expertise to the CCAFS regional programs to engage in the theory of change process through the development of impact pathways at the site and eventually at the regional levels. Workshops were implemented by the regional programs to introduce East Africa stakeholders to the concepts of outcome-thinking, and to help partners at the Burkina Faso site in West Africa design an impact pathway for their network. We also supported CCAFS in the development of IDOs for the CRP, and began the process of critically evaluatine the theme 4.1 impact pathway in terms of the Theory of Change process. Key lessons so far have been the

Output 4.1.3 Analyses providing evidence of the benefits of, strategies for, and enhanced regional capacity developed in, gender and pro-poor climate change research approaches that will increase the likelihood that CCAFS-related research will benefit women and other vulnerable as well as socially differentiated groups

4.1.3 Gender and Social Differentiation

(a) Gender Grants (http://ccafs.cgiar.org/our-work/research-themes/integration-decision-making/linking-knowledge-action/gender-grants). CCAFS supported female researchers in our three regions to undertake climate change, agriculture and food security-related research. A competitive call was extended and grants were awarded to five female researchers at the postdoctoral level. A mixture of qualitative and quantitative methods was employed by these scientists to explore the following research topics using a gender lens: adaptive capacity of livestock owners in Uganda, role of micro-finance in providing food security in Bangladesh, greenhouse gas emissions and agriculture intensification in Nepal, climate information to reduce disasters in Senegal, and climate change policy design in Burkina Faso. These researchers are based at local agricultural research institutes, universities, or NGOs and have worked closely with Theme 4.1 on CCAFS priority research areas. This is a first step in building new capacity in local partner institutions in this critical and under-invested area. The award recipient from Uganda mentioned that the grant allowed her to mot only learn more about how climate change impacts smallholders, but that it allowed her to "widen her social networks" and she has been able to "meet more people which will give more opportunities to partner and collaborate with a wider range of institutions" in the future. The award recipient from Bangladesh stated "the CGIAR research program has helped me to enrich my knowledge about the hardship in the lives and livelihoods of coastal poor women. It has also helped me to explore new research fields and issues. This has had a great impact on my life as a researcher". Finally, the award recipient from Burkina Faso stated that the grant allowed her to "realize the difficulties of adaptation to climate change and the gaps due to gender issues in policies and practices". To highlight the grantees' research, blogs and interviews have been posted online along with their te

Provide a synthesis of all Program Participant activities pertaining to this output as per the CCAFS logframe. These reports will be 3-5 pages long (max. 30,000 characters).

- (b) Joint CCAFS-CAPRi workshop and papers: CCAFS and the CGIAR program on Collective Action and Property Rights (CAPRi) carried out a competitive call for papers to find the best research going on across the CG/partners. This culminated in a joint research workshop on the topic of "Institutions for Inclusive Climate Smart Agriculture" in September 2012 in Nairobi. A series of CAPRi-CCAFS working papers from this event are in process and a journal special issue is being planned. Many CCAFS and partner papers were shared as background to this event, and are available at: http://www.capri.cgiar.org/wks_0912.asp . New partnerships with innovative local institutions, e.g. GROOTS (an umbrella women's group organization working with tens of thousands of smallholders across Kenya) were another result of this initiative.
- (c) Gender research: The CCAFS Gender Strategy (http://ccafs.cgiar.org/our-work/research-themes/integration-decision-making/linking-knowledge-action/gender-climate-change) was finalized in February 2012. Our first step in implementation of the strategy was to institute a CCAFS Gender Technical Advisory group consisting of 16 members with diverse backgrounds including economics, social science, gender and development, veterinary medicine, food security, agro-ecology and statistics. The group finalized gender-related research questions for CCAFS. These questions serve as the basis for gender research carried out under T4.1. The "Gender and Climate Change Research in Agriculture and Food Security for Rural Development Training Guide" was launched in collaboration with the United Nations Food and Agriculture Organization (FAO) during International Women's Day in March (http://www.fao.org/climatechange/micca/gender/en/). The guide was downloaded 2,343 times between March and early October. Based on the results of the research while testing the guide, CCAFS working papers were published on gender and climate and a manuscript was drafted for submission to a peer-review journal in 2013. A presentation was also made at the Community Based Adaptation 6 conference held in Hanoi in April to highlight the research findings. The training guide is in the process of being translated into French and Spanish. The IMPACT household farm characterization tool was developed over many years, led by Mario Herrero and Carlos Quiroz of ILRI. It provides very comprehensive gender-disaggregated information at the plot level, and includes all inputs and outputs. The full approach for phours, in some cases more than a day, with each farm household. Thus a version called "IMPACT light' was developed that focuses on certain components of the longer version. It involves spending several hours with each household with well-trained enumerators, and builds upon years of experience with not just IMPACT, but other

Output 4.1.4 Strengthening capacities to effectively engage in global policy processes and mainstreaming risk, adaptation and mitigation strategies into national policies, agricultural development plans, and key regional and global processes related to agriculture and rural development, food security and climate change

4.1.4 (1) Communication

Themes 4.1 and 4.2 collaborated on a series of initiatives aimed at better understanding and exploring opportunities for social learning and social differentiation approaches within CCAFS. A new climate change and social learning (CCSL) knowledge network with a wide range of new partners for CCAFS has been formed as a result of these investments. A draft working paper was submitted by Alison Shaw entitled 'Social learning and social differentiation: Catalysing adaptive capacity for development and climate change'. It captures innovative results-oriented research taking place within various CGIAR centres and identifies what role social differentiation plays in regards to agriculture and food security practices, and what methods are being used to capture this. The report identifies how various tools, approaches, and initiatives have been implemented at various scales while identifying best practices. It also helps identify "champions" of social learning and social differentiation within and outside the CGIAR. New approaches such as animated videos on a new research paradigm for CCAFS and the CG are being produced as a result of this work. We also planned CCAFS's science meeting in 2013 around this topic and will be sharing the outputs of 2012 at that meeting with scientists from all centres.

The regional programs are providing direct national and regional support to catalyse the process of engagement:

Provide a synthesis of all Program
Participant activities pertaining to this
output as per the CCAFS logframe.
These reports will be 3-5 pages long

- (a) East Africa: As part of the Regional Learning Partnership (RLP), CCAFS in collaboration with COMESA, EAC and SADC organized post-Durban dialogue workshops on Climate Change and Agriculture in Eastern and Southern Africa, to help further articulate the African position on agriculture within the international climate change negotiations (UNFCCC). COMESA and CCAFS in partnership with other regional actors and networks (e.g. ACPC), have continued to support African group of negotiators (AGN) to communicate and deepen the understanding of agriculture and build capacity for negotiators to engage in the UNFCCC process. CCAFS held a side event at the African Ministerial Conference on Environment (AMCEN) in September and an exhibition at the Second Conference on Climate Change and Development in Africa (CCDA-II) in October. In order to respond to the need to develop projects that address needs for research, CCAFS East Africa convened a regional science workshop that brought together CGIAR and national scientists to develop thematic research activities that support climate risk management, adaptation and mitigation. At the end of the workshop, four thematic research groups were formed to work at the CCAFS sites in East Africa. An outcome mapping workshop was held as a follow-up to the regional science workshop and to integrate with the work of development partners across the sites in East Africa. The objective of the workshop was to map the output-outcome-impact pathways across the learning sites and to build stronger partnership and coordination of research and development activities among partners. Various blogs are available on the CCAFS website highlighting key outcomes of the different engagement processes above.
- (b) West Africa: Two regional workshops were organized in Dakar (Sep 2012) and Ouagadougou (Dec 2012) to 1) establish/strengthen national platforms and 2) to validate the work plan of each country national platform as well as the regional platform. The five workshop provided opportunities for each of the national platform (comprising representative from national agricultural seearch system, national agricultural policy-makers, NGO, network/bumbrella of farmers organizations) to come up with a state-of-the-art diagnosis on the constraints and opportunities to networking at the national level in order to mainstream climate change adaptation into national agricultural policy and development agenda, identify the key institutions and organizations to embark in the process. Following their formal setup, the national platforms were officially launched in each country through a one-day event meeting with communication outreach. A road map has been developed for the 2013 activities of each national platforms. Deliverables: 5 operational platforms established in CCAFS pilot countries; 1 report on the workshops in Senegal and Burkina Faso.
- (c) South Asia: CCAFS has initiated a Climate Smart Agriculture Learning Platform (CSALP) to improve communication between scientists, policy makers, political leaderships

Outcome 4.2 Improved frameworks, databases and methods for planning responses to climate change used by national agencies in at least 20 countries and by at least 10 key international and regional agencies

Output 4.2.1 Integrated assessment framework, toolkits and databases to assess climate change impacts on agricultural systems and their supporting natural resources

Regional site and baseline characterisation: Considerable progress was made in finalising baseline data collection activities at the 15 CCAFS core sites in three regions and 12 countries. Objectives are to allow the construction and measurement of indicators of behavioural change in relation to climate change adaptation, mitigation and risk management that can be measured in repeat visits. The goal is assess what kinds of changes have occurred and whether these changes are helping households adapt to, and mitigate, climate change. The baselines at household, village and organisational levels are allowing CCAFS to explore gender and other social differences in target populations. Data collection was completed in 2012 for East Africa, West Africa, and South Asia. Most site reports are complete, and these, the data and all training materials are available via DataVerse. One paper has been published and several more are being written up, some by others not directly involved in the data collection. The work has involved a wide range of national partners in the regions, as well as several CG Centres (ILRI, ICRAF, IWMI and ICRISAT). A prototype mini-atlas was developed for the Lushoto (Tanzania) site, and these are now being completed for all 15 core sites. They contain information on a wide range of themes including climate, land use, soil type, agro-ecological zone, crop and livestock information, and poverty. They will be published in on-line and hard-copy versions in 2013. Several papers are being prepared for publication, including a journal article focusing on climate change adaptation and farmers' livelihoods along the rainfall gradient across different sites in the Indo-Gangetic Plain.

Provide a synthesis of all Program Participant activities pertaining to thi output as per the CCAFS logframe. These reports will be 3-5 pages long (max. 30,000 characters). Downscaled climate data: Several activities were undertaken in relation to downscaled climate model data for evaluating the impacts of climate change on agriculture and food systems and for assessing adaptation, mitigation and risk management options. A stand-alone version of the MarkSimGCM tool was developed, which like its Google-Earth-based precursor, can generate plausible daily weather data in a common crop-modelling format for future climate change scenarios. This tool can be run from scripts, and so can be run for many thousands of points or grid cells. A journal paper was published on the tool, which is available at ccafs-climate.org. New CMIPS climate model data have been collated (from 17 climate models and 4 scenarios to 2100), and these are being processed and distributed from the CIAT-based ccafs-climate.org website. Both versions of MarkSimGCM will be updated with these new data during 2013. Work also continued on version 2 of MarkSim, which will be based on more than 50,000 stations of historical rainfall data. These tools are starting to be widely used in the agricultural modelling community. With the addition of two new CCAFS regions, two reports were commissioned from INPE (Brazil) and the University of Oxford to evaluate the ability of the climate models to reproduce the observed climate in each region (Latin America and SE Asia, respectively). The object is to establish how reliable future climate and crop growth projections might be. These will be companion reports to those already published for E Africa, W Africa and S Asia (ccafs.cgiar.org/resources/tools-maps-models-and-data/testing-climate-models-agricultural-impacts). CIP and partners undertook studies focusing on the large-scale characteristics of the South American Monsoon System (SAMS): seasonal amplitudes, onset and cessation dates and durations. Some CMIPS models have significantly improved their representation of the SAMS. Pleas to earlier climate models, although not universally. Results show significant increases in seasonal am

Databases and database tools: work here contributes to much larger efforts by filling in key gaps that are of particular importance to climate change and food security work. There was theme-led activity in relation to soils (Washington State University and a 9,000 profile data set for agricultural modelling applications), agricultural systems (FAO and new maps of intensive cattle, chicken and pig production systems in the CCAFS regions), cropland extent (IIASA and crowd-sourcing technology geo-wiki.org, to produce a new hybrid cropland extent map), and rangeland extent (McGill University and the GEOSHARE project). ILRI used the household data collection tool Impact-Lite to collect detailed farming household data from about 200 households in each of the CCAFS core sites. These data, soon to be made publically available, will form a key resource for household modelling, as well as providing detailed systems characterisation information for all the CCAFS sites. These data are currently being analyzed by regional teams comprising cientists from different centers and institutions, and several papers on household food security and adoption of climate smart agricultural practices will be finalised in 2013. A

Output 4.2.2 Socially-differentiated decision aids and information developed and communicated for different stakeholders

Provide a synthesis of all Program Participant activities pertaining to this output as per the CCAFS logframe. These reports will be 3-5 pages long (max. 30,000 characters). Activities under 4.2.2 were started through a call for proposals to review approaches to communications and social learning to support local decision-making on food security and climate change. IDS and IIED partnered on this activity and published a CCAFS Working Paper (No. 22) on current approaches to climate change communications and social learning. This work was used as a basis for an initial workshop in Addis Ababa with a diverse group of communications and knowledge management experts, as well as social and agricultural scientists. The workshop identified strategic intervention areas for CCAFS around socal learning ('change areas'). The workshop led to several activities that are documented on the Climate Change and Social Learning (CCSL) Wiki (http://ccsl.wikispaces.com/). The Sandbox, an online platform, has been established as a community of practice to explore innovative, risky ideas and provide seed funding for such ideas (this is championed by ILRI-KMIS, the knowledge management and information services). A CCAFS Working Paper on a review of social learning related activities within the CGIAR is being finalized - this work was presented and built upon during a second workshop in Addis Ababa in late 2012 (consultant, J. Gonsalves). Another CCAFS Working Paper is being finalized, examining the impacts of social learning approaches for monitoring and evaluation (IDS/IIED/IDRC). A long-term partnership agreement was initiated with Reading University to "develop participatory approaches to support farmer decision making and planning through the use of climate and weather information". Activities under 4.2.2. are collaborative efforts with Theme 4.1 - where more social learning related work was commissioned to look at social differentiation within social learning (with Finionova) and working with innovative media (with Shamba Shape-Up). Also, Theme 4 is currently finalizing a written and animated CCSL narrative 'transforming (od systems', a policy brief and a donor synthesis. Theme 4 also proposed to orga

Objective 4.3 Refine frameworks for policy analysis

Outcome 4.3 New knowledge on how alternate policy and program options impact agriculture and food security under climate change incorporated into strategy development by national agencies in at least 20 countries and by at least 10 key international and regional agenciesat least 10 key international and regional agencies

Output 4.3.1 Climate change impacts assessed at global and regional levels on agricultural systems (socially and gender differentiated producers and consumers, and their natural resources), national/regional economies, and international transactions and potential of international and regional policy changes to enhance adaption and support agricultural greenhouse gas emissions mitigation

Agriculture", a Bill & Melinda Gates Foundation principally-funded project (See Summary by Output 4.3.1 for analytical description). Several integrated bio-economic modeling frameworks are under various stages of development for the respected crops (wheat, maize, groundnut, sorghum, rice, cassava, beans), for livestock, and for agroforestry, in the participating CGIAR centers, that all feed into the ex-ante evaluation of socio-economic impacts of existing and promising technologies. Relevant reports have been produced for the above thematic fields. Analytically: A.1. CIAT: DSSAT model was calibrated and the casava model in DSSAT was improved. Partial data collection took place on aggregated data for SPAM data base for Latin America. DSSAT and IMPACT models were used to assess the impact of climate change on cassava and analyzed the impact of herbicide tolerance technology. A.2. CIMMYT: Two reports on promising wheat and maize technologies were prepared, that showed good promise to increase productivity of maize under existing and potential constraining factors. A.3 CIP: The integrated bio-economic modeling framework for the ex-ante evaluation of socio-economic impacts of potato technologies consisting of a global crop modeling framework (DSSAT-SUBSTOR) and IMPACT has been set up and made operational. Linkages between the different modeling components have been established and the framework has been, in a proof-of-concept manner, used for the evaluation of improved potato varieties. Work on improvements of the modeling framework with the objectives of generating more reliable results has been started. These components involve assessments of the suitability of the SUBSTOR potato crop model for virtual crop modeling, assessment and improvement of the global baseline simulation for potatoes with the geospatial crop modeling framework and the improvement of the potato baseline projections with the IMPACT model. A.4. ICRAF: Modeling capabilities in agro-forestry and natural resource management intervention areas have being linked between DSSAT and IMPACT. A report on Women and Agroforestry Based Soil Fertility Management Technologies was produced. A.S. ICRISAT: The productivity potential of identified sorghum and groundnut technologies using virtual crop model (DSSAT) was evaluated. Groundnut: The net yield gain of incorporating both drought and heat tolerance in India increased to 14% at Anantapur and 16% at Junagadh under climate change. At the Samanko site in Mali, with and without climate change, yield gains from drought tolerance were limited to 4% with no benefit accruing from heat tolerance. At Sadore in Niger, yield gains were larger from drought tolerance than from heat tolerance trait under the current climate; however, the yield gains from both traits increased under climate change. At Sadore, the net benefits due to the combination of drought and heat tolerance was up to 18% and 31% under current and future climates, respectively. Sorghum: The yield increase for the longer duration cultivar was 11 to 18% at Akola, 17 to 19% at Indore and 6 to 7% at Samanko under current and future climates of the sites. At the three sites, the yield gains were larger by incorporating drought tolerance than heat tolerance under the current climate; however, under future climates the yield gains were higher by incorporating heat tolerance especially at the Akola site. Net benefits of incorporating both drought and heat tolerance increased up to 17% at Akola, 9% at Indore and 7% at Samanko under climate change. A.6 ILRI: In a study on food security and political stability, the IMPACT model and other tools of foresight analysis were applied to the assessment of alternative pathways for enhancing food security under scenarios of shocks to global livestock production systems. Short- and medium term actions were proposed to enhance food, environmental, and human health security, and to reduce potential for human conflicts over natural resources. A.7.IRRI: An ex ante impact assessment of development and dissemination of a drought tolerant rice in the presence of climate change was accomplished. Combining a bio-physical model (ORYZA2000 crop growth simulation model) with an economic model (IRRI Global Rice Model), the simulation revealed that net economic benefits outweighs the cost even under the

A. 7 CGIAR Centers (CIAT, CIMMYT, CIP, ICRAF, ICRISAT, ILRI, IRRI) were co-funded to include climate change related work, as part of their participation in "Global Futures for

Provide a synthesis of all Program Participant activities pertaining to this output as per the CCAFS logframe. These reports will be 3-5 pages long (max. 30,000 characters).

B. In addition: Several CGIAR centers have contributed with additional multiple modeling work, often related to the Global Futures project, as described below: CIAT:Modeling framework for cassava, beans, rice and tropical forages is being improved to set center priorities for technology development in the face of climate change., CIMMYT: The CERES-Wheat and CERES-Maize models embedded in DSSAT have been calibrated and evaluated with benchmark varieties using CIMMYT's global yield trial datasets. The models were run at a pixel level and then later aggregated to the desired spatial scale using GIS, and vulnerability maps showing global and regional changes in yield and production of wheat and maize by 2050 have been produced. The model outputs aggregated at food production unit (FPU) level have been fed into the global IMPACT model.

presence of mild to harshest climate scenarios.

Output 4.3.2. Analyses of the likely effects of specific adaptation and mitigation options, national policies (natural resource, trade, macroeconomic, international agreements) including gender/livelihood groups, and communicated to key local, national and regional agencies and stakeholders

Provide a synthesis of all Program
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These reports will be 3-5 pages long

Three Sub-Saharan African research monographs (East Africa, West Africa, Souther Africa) covering 29 countries, are to be released, and summary policy briefs are already available to policy makers. The monographs discuss the impact of climate change on agriculture, with a focus on finding adaptation options for policy makers. The work has been coordinated in collaboratuion with 3 regional organizations (CORAF, ASARECA, and FANRPAN) who now use the results within several national programs. The work was also presented to a large audience of stakeholders, and received significant coverage by media, during the "Agriculture, Landscapes and Livelihoods Day 5", at COP 18, in Doha, Qatar, in December, 2012. (See similar description in Summary by Output 4.3.2)

Output 4.3.3. Capacity built at CGIAR, NARS, and international organizations to perform global and regional analyses of the effects of policy changes using tools developed in output 4.3.1

Provide a synthesis of all Program Participant activities pertaining to this output as per the CCAFS logframe. These reports will be 3-5 pages long (max. 30,000 characters). Under Theme Leader 4.3 and in collaboration with IFPRI staff, training was provided to researchers and research support staff in CGIAR centers, academic institutions and international organizations, on the use of of the International Model for Policy Analysis of Agricultural Commodities and Trade (IMPACT) (See Summary by Output 4.3.3 for details). In parallel, under a FANRPAN funded-project, participants from 4 universities in Southern Africa were trained in the use of economic models in climate change analysis and climate change policy development. Participants were trained in the use of IFPRI's IMPACT model, as well as explaining the challenges of using a global trade model, and how best to downscale these global results to be applied at national, and subnational distric levels in Southern Africa.



Milestone Status Report - 2012

	Theme	Milestone	Milestone Status			
	Theme 4.1	4.1.1 2012	Completed			
	Theme Leader comments on Milestone status Scenarios completed for three regions.					
MILESTONE REPORT 1	Regional Program Leader comments on Milestone status EA: Activity linked to the participatory action research in Theme 1 (167), Theme 2 (174) and Theme 3 (180). PICO Eastern Africa held informal interviews with partners and communities across three CCAFS sites (Nyando, Lushoto, Borana) in order to improve the implementation of site-specific research with a broad range of partners, develop critical skills for long-term facilitated community engagement, learning and development. Preliminary results were used as input into a regional PAR and outcome mapping workshop in November 2012. SAs: CCAFS together with Oxford University organized a scenario building workshop process in Colombo in 2012 and came up with five qualitative scnearios for South Asia. These scenarios will be further considered for detailed quantification and modeling in 2013.					
MILESTONE REPORT 2	Nepal and Bagerhat of Bangladesl and participaory vidoes are being However, still inter-centre collabo WA:	ents on Milestone status culture villages in key CCAFS sites in South A: h). Several activities relating to water, residule employed to upscale these activities in neigoration is not up to the mark.	Milestone Status Completed sia (Vaishali, Bihar and Karnal, Haryana of India, Rupandehi of ue, nitrogen management, are being implemented in these sites shbouring region. Various centres are working in the CCAFS sites.			
	Thoma 4.1	Milestone	Milestone Status			
	Theme 4.1	4.1.3 2012	Completed			
MILESTONE	Theme Leader comments on Milestone status					
	FAO/CCAFS particpatory gender tools available in 3 languages. IMPACTlight survey implemented in 15 sites. New intra-household gender tools					
	Regional Program Leader comme	ents on Milestone status				
REPORT 3	districts of Bihar, IFPRI developed	l a survey instrument to collect gender-disag	Bihar of India through several round of training events in several gregated data on climate change perceptions, impacts (on f CCAFS in Bangladesh and actual survey has not started.			

Theme Leader comments on Milestone Status Theme Leader comments on Milestone Status RPLs taking the lead in networking with decision-makers and building capacity for CSA policy. Regional Program Leader comments on Milestone status EA: In 2012, the program focussed on strengthening the existing parnerships and developing new partneships at local, national, regional and general scales. As part of the regional learning partnership (RLP), CCAFS in collaboration with COMISA, EAC and SADC organized post-burban dial workshops on Climate Change and Agriculture in Eastern and Southern Africa, to help further articulate the African position on agriculture within the international climate change negotiations (UNFCCC) SAS: High level policy engagement on climate smart agriculture was organized in Bangkok together with APAARI, a rigorous interaction with Members of Parlament in Nepal followed by a workshop on Science-Policy-People Interface on Climate Change, Agriculture and Food Section Nepal, insignation of Climate smart agriculture learning Platform for South Asia by His Escellency President of Nepal in 2012 was done CCAFS together with local partners etc. affirm that milestone has taken a proper shape in 2012. Wa: S national platforms established and linked with the regional platform (CORAF/WECARD). National platforms roadmaps developed and implementation to start during 2013. Theme Milestone Milestone Milestone Status CLAT and IITA have both been training local partners across the East Africa sites, and with ICRAF working on methods to link socio-econom Theme 4.2 Theme 4.2 Theme 4.2 Theme 4.2 Theme 4.2 Theme 4.1 Theme 4.2 Theme 4.2 Theme 4.2 Theme 4.3 Regional Program Leader comments on Milestone status This is essentially complete, pending some final reports at the village and organizational levels. Some delay due to extra sites selected in E Africa and S Asia. Regional Program Leader comments on Milestone status						
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		EA:				
Data collection for all the six sites in East Africa completed in 2012. The data are centrally stored at ILRI and a training and data collection	are centrally stored at ILRI and a training and data collection					
MILESTONE manual has been compiled. The data will be analysed in 2013.						
REPORT 6	SAs: All household baseline surveys have been completed in all sites, village and organizational baselines in Karnal, Haryana; and or baseline in Vaishali and Bagerhat are on, ICRISAT has developed pixel-wise climate data for use in models but software to proc for rainfall probability, water balance and LGP has not made ready for use, Trade-off Analysis model for Multi-Dimensional imp					
All household baseline surveys have been completed in all sites, village and organizational baselines in Karnal, Haryana; and organizationa baseline in Vaishali and Bagerhat are on, ICRISAT has developed pixel-wise climate data for use in models but software to process gridded for rainfall probability, water balance and LGP has not made ready for use, Trade-off Analysis model for Multi-Dimensional impact assessr (TOA-MD) developed and adapted as an integrated assessment framework for regional analysis of climate change and adaptation impacts IWMI prepared map of flood occurence and its duration for South Asia and regional database on agricultural statistics, historic climate				mate data for use in models but software to process gridded dat		

parameters and crop management and updated south asia irrigation map. Substantial works have been completed to justify this milestone.

Detailed household characterization (impactlite) completed for the five WA sites. Data analysis on-going.

	Theme	Milestone	Milestone Status		
	Theme 4.2	4.2.1 2012 (2)	Partially completed		
	Theme Leader comments on Mile				
MILESTONE REPORT 7	Methods have been tested, but not really harmonised yet. A workshop is planned for 2013 to work on this and write a comparison paper. CMIP5 climate model data have been worked on and will soon be available. Regional Program Leader comments on Milestone status				
	Theme	Milestone	Milestone Status		
	Theme 4.2	4.2.1 2012 (3)	Completed		
	Theme Leader comments on Miles	stone status			
	cropland data sets are available, al	ong with rangeland extent data. Centres a	es one stop with databases?). But soils, agricultrual systems, and e providing a wide range of other databases under this activity. ontinually updated (ccafs-climate, AgTrials and DataVerse)		
MILESTONE	Regional Program Leader commer	nts on Milestone status			
REPORT 8	EA: Impact-Lite data collection for all the six sites in East Africa completed in 2012. The data are centrally stored at ILRI and a training and data collection manual has been compiled. The data will be analysed in 2013. SA: ICRISAT has developed pixel-wise climate data for use in models but software to process gridded data for rainfall probability, water balance and LGP has not made ready for use. IWMI prepared maps of flood occurence and its duration for South Asia and regional database on agricultural statistics, historical climate parameters and crop management and updated South Asia irrigation map. Substantial work has been completed to justify this milestone.				
	Theme	Milestone	Milestone Status		
	Theme 4.2	4.2.1 2012 (4)	Completed		
	Theme Leader comments on Mile		Completed		
MILESTONE REPORT 9	This scoping is largely complete. Work is in progress, although this is fairly speculative, it should be said. The work could be very important, and probably needs more resources to move the agenda along. Regional Program Leader comments on Milestone status				
	Theme	Milestone	Milestone Status		
	Theme 4.2	4.2.1 2012 (5)	Completed		
	Theme Leader comments on Miles	stone status			
MILESTONE REPORT 10	A wide range of tools is now available among centres and partners, including tools to allow assessment of rangelands as specificed in the milestone. Some vulnerability assessments have been carried out at sub-national level, but there is more to do specifically for the CCAFS regions. Regional Program Leader comments on Milestone status				
	Regional Program Leader comments on Milestone status SA: Trade-off Analysis model for Multi-Dimensional impact assessment (TOA-MD) developed and adapted as an integrated assessment framework for regional analysis of climate change and adaptation impacts				

	Theme	Milestone	Milestone Status
	Theme 4.2 Theme Leader comments on Mile	4.2.2 2012 estone status	Completed
MILESTONE REPORT 11	and scoping report have been pro	duced, and the sandbox provides many func er region-led and centre-led activities under	ment in the social learning arena is well in place. Several review tions for development and discussion of SL activities. Work has this objective will be pursued in 2013 and beyond.
	Theme Theme 4.3	Milestone 4.3.1 2012 (1)	Milestone Status Partially completed
	Theme Leader comments on Mile	estone status	
MILESTONE REPORT 12	IMPACT to allow for efficient allow demand for land by type (rainfed designed to provide researchers was CGIAR centers). Toward the end continued to replace the earlier nactivity did not take place). 3. As economic models (seven of these scenario comparison. A set of six Agricultural Economics Special Iss	cation of land across crops in each region (fo and irrigated) and crop. This together with o with a teaching version of the model that faci of 2012, work was started to transfer the new nodel in the second quarter of 2013. 2. Aqua part of the Agricultural Model Intercomparis are general equilibrium models while four a or more simulations has been developed to o use on Global Model Intercomparison, and or in prepared and are in the stage of submission	orporated in IMPACT, that extends the existing area equations in lood production unit, FPU), separately modeling the supply and ther new features were first implemented in a simplified version, illitates transfer of the IMPACT model to other institutions (e.g., or features to a new version of the full IMPACT model, which is culture has not been added to the IMPACT model (WORLDFISH son and Improvement Project (AgMIP), a total of 10 global re partial equilibrium models) have been in a global reference expose the models to a wide range of drivers. 5 papers, for a ne on "Assessing uncertainty along the climate-crop-economy ns.
	Theme	Milestone	Milestone Status
	Theme 4.3	4.3.1 2012 (2)	Completed
MILESTONE REPORT 13	•	nge" report was released at FAO, in June 201 arch results from previous and ongoing work	2, by the High Level Panel of Experts (HLPE) of the Committee on were incorporated in the report.
MILESTONE REPORT 14		ch monographs (East Africa, West Africa, So vavailable to policy makers. The monographs ns for policy makers.	Milestone Status Partially completed outher Africa) covering 29 countries, are to be released, and s discuss the impact of climate change on agriculture, with a

Theme	Milestone	Milestone Status
Theme 4.3	4.3.3 2012	Partially completed

MILESTONE REPORT 15 Theme Leader comments on Milestone status

Several scientists, and research support staff from the CGIAR centers (Global Furtures for Agriculture Fellows, other research support staff),

academic institutions, research centers and international organizations received training on the use of of the International Model for Policy Analysis of Agricultural Commodities and Trade (IMPACT), that has been developed at IFPRI. DSSAT crop model was integrated and utilized in several CGIAR centers. Capacity building among NARES did not take place.

Regional Program Leader comments on Milestone status