Regional Priorities

Most regions have been through a number of stakeholder events, from site to regional level, in which an array of priorities have emerged. These are listed in the below tables. Those for Latin America and South East Asia still need to be discussed by the program management team and the Independent Science Panel. Further work on these tables are still needed, as it is clear that some issues listed in some regions but not others are crucial for the program to achieve in all regions (e.g. the listed M&E under Flagship project #1 in West Africa).

East Africa

Flagship 1: CSA practices	Flagship 2: Climate information services and climate-informed safety nets	Flagship 3: Low emissions development	Flagship 4: Policies and institutions for climate-resilient food systems
With national agricultural research	In collaboration with the National	Build capacity of researchers	Mainstream adaptation and
organizations, design integrated	Meteorological and Hydrological	through student training at	mitigation strategies into national
and wide scale testing ,through	Services (NMHSs) improve	universities in East Africa to	policies, agricultural development
participatory action research at	downscaling of seasonal forecasts	measure GHG emissions from	plans, such as with CAADP, and key
CCAFS sites; local climate smart	and develop tools and applications	agriculture, support national GHG	regional and global processes
interventions that increase	to aid farmer decision making in the	inventories and identify best-bet	related to agriculture and climate
resilience, reduce GHG emission	face of increased frequency of	mitigation options for low carbon	change (e.g. inputs of African
intensity, and address food	droughts in the arid and semi-arid	agricultural growth in coffee-	countries into the UNFCCC). Key
insecurity of smallholder farmers	lands (ASALs) of EA.	banana and intensive dairy systems	actors are ministries of Agriculture,
		in the highlands of EA.	Environment and Finance
Working across CGIAR initiatives,	With ministries of agriculture,	Contribute to knowledge and	Work with government and
develop tools and guidelines for	research and other providers of rural	information that supports East	businesses to respond to demand
promoting the use of new crop,	services, assess, integrate, and	African governments to implement	for decision tools to promote
livestock and fisheries technologies	communicate indigenous technical	sustainable land management	innovative financing and credit
and the uptake of climate smart	knowledge and scientific weather	actions under the NAMAs and	provision to increase government
village models for up scaling CSA	forecasting and early warning in	develop business models that	and private sector investments to
amongst thousands of women	Uganda and Tanzania	provide benefits to farmers from	climate-proof 4 major agricultural
farmers and youth as well other		agroforestry carbon projects	value chains; Maize, coffee, dairy
marginalized farmer groups			and beef

With CIMMYT, target appropriate domains for adaptation technologies and practices for drought, pests and disease management in maize based systems such as with drought	Develop and test ICT based schemes, knowledge hubs (e.g ALIN), tools, data sets and platforms for timely, reliable and user friendly delivery of agro advisories that address the needs of large numbers of men and		
tolerant maize (DTMA), insect resistant Maize (IRMA) and water efficient Maize (WEMA)	women farmers in the grain baskets of Kenya and Tanzania		
Contribute to knowledge and information about changing local practices that support East African governments to implement priority actions developed under the NAPs and NAMAs (linked to policy work under Flagship 3 and 4)	Test social protection schemes and respond to demand for tools for risk management such as index based financial risk transfer for crops and livestock; including models for upscaling their uptake by farming communities drawing on lessons from projects in Kenya (Kilimo Salama) and Ethiopia (HARITA)		Policy analyses, including through modelling and economic analyses (such as trade-off and cost benefit analyses, agricultural commodity pricing etc.), for investments in climate smart agriculture, to help track and direct climate finance for building resilient food systems that reduce post-harvest losses of 4 major staples, Maize, Bean, Teff and Potatoes
Participate in learning partnerships for accelerated uptake of CSA tools and practices with focus on crop and breed improvement for heat and disease tolerance in EA	Participate in learning partnerships through shared learning on climate monitoring, forecasting and early warning systems for addressing drought related impacts in Kenya and Ethiopia drawing on the experiences of ICPAC/FAO/Oxfam etc.	Participate in learning partnerships to promote synergies between adaptation and mitigation in order to reduce GHG emissions intensity in agriculture and the food system	Participate in national knowledge platforms and engaging through shared learning to enhance science-policy dialogue, and promote evidence based policy outcomes under the emerging NAPs and EAC/COMESA programs.
With national agricultural research organizations, design integrated and wide scale testing ,through participatory action research at CCAFS sites; local climate smart interventions that increase resilience, reduce GHG emission	In collaboration with the National Meteorological and Hydrological Services (NMHSs) improve downscaling of seasonal forecasts and develop tools and applications to aid farmer decision making in the face of increased frequency of	Build capacity of researchers through student training at universities in East Africa to measure GHG emissions from agriculture, support national GHG inventories and identify best-bet mitigation options for low carbon	Mainstream adaptation and mitigation strategies into national policies, agricultural development plans, such as with CAADP, and key regional and global processes related to agriculture and climate change (e.g. inputs of African

intensity, and address food	droughts in the arid and semi-arid	agricultural growth in coffee-	countries into the UNFCCC). Key
insecurity of smallholder farmers	lands (ASALs) of EA.	banana and intensive dairy systems	actors are ministries of Agriculture,
		in the highlands of EA.	Environment and Finance

West Africa

Flagship 1: CSA practices	Flagship 2: Climate information services and climate-informed safety nets	Flagship 3: Low emissions development	Flagship 4: Policies and institutions for climate-resilient food systems
Assess, through participatory approaches, village vulnerability i.e. climate risks and opportunities or assets for tackling them (village resources, organisational capacity, private and public support, indigenous knowledge)	Strengthen scientific capacity of AGRHYMET and national met services to develop improved seasonal climate forecast, downscaled to subnational levelincluding early warning systems	Although mitigation is not seen as a priority for West Africa, one priority is to capacitate institutions with upto-date approaches, toolsand methods in order to: • quantify GHG emissions of various WA landscapes • setup relevant institutional arrangementsthat will identify trade-offs and mitigation cobenefitsfor smallholder farmers	Develop regional and national scenarios for agriculture and food security in the context of climate change (crop yields, food prices, population growth, economic growth, social capital, education and access to information) to inform adaptation and mitigation policy plans
Develop a common vision for communities and villages for adaptation to climate variability and change – using tools like participatory planning, FoTF approach and scenario development to define adaptation domains	Develop technical groups/ schemes that provide agrometeorological assistance (agromet advisories) and develop communication mechanisms to reach end-users (e.g. through rural radio, ICT) including women and marginalized groups		Develop priority setting tools for national level agricultural planning and investment (e.g. SROI, Systemic Integrated Adaptation)

Develop CSA models based on the	Identify strategies for food systems	Participate/facilitate national
innovative packaging of best	management to respond to climate	exchange platforms using climate-
adaptation and/or mitigation	shocks and consecutive disasters,	smart solutions and issues from
technologies and practices (SWC	and developing approaches for	PAR to feed science-policy
technologies, drought tolerant crop	precautionary management of	dialogues. Capacitate national
varieties, intercropping systems	long-term climate risks	platforms to identify adaptation
(e.g. Cereal-Jatropha), crop		priority needs and gaps in order to
rotation systems, integrated crop-		do science-informed planning for
livestock, , NATR, irrigation, ISFM		the national food system. Solutions
(microdosing), IPM systems, AGF		to come through research (from
systems, warrantage system,		farmer participatory research to
Market Information System in		national to international).
Agriculture, etc.); this also includes		
developing sound approaches for		
the scaling-up of CSA models (e.g.		
promoting the use of developed		
CSA models by ROPPA network in		
WA).		
Apply M&E tools/approach to	Develop reliable weather-index	
iteratively monitor outcomes	crop and livestock insurance in	
(assessing behavioural change and	support to climate risk	
the adaptive capacity) of	management through insurance	
communities and organizations	schemes that are appropriate for	
involved, from the household to	smallholder farmers	
the village community to the		
district level technical support unit.		

South Asia

Flagship 1: CSA practices	Flagship 2: Climate information services and climate-informed safety nets	Flagship 3: Low emissions development	Flagship 4: Policies and institutions for climate-resilient food systems
Assess, through participatory approaches, risk management interventions in an integrated manner (climate smart villages) including community management of natural resources, crops, livestock, fish and agroforestry.	Improve short-term and seasonal weather forecasts	Assess trade-offs and synergies among food production, farm income, adaptation and mitigation at different scales, from farm to national level	Develop tools and case studies for food security planning especially in periods of climatic stresses including NAPs, NAPAs and NAMAs
Develop tools and case studies for defining the adaptation domains of various technological interventions for climate risk management	Develop ICT based schemes and pilots for communicating targeted climate information and value-added agro-advisories to large numbers of farmers, especially women farmers, and other stakeholders.	Assess biophysical and economic mitigation potential of agricultural practices and challenges and opportunities for their implementation at large scale in order to contribute to low carbon development	Develop tools and case studies to inform decision making on prioritized investments in climate smart agricultural technologies and practices
Develop innovative models/guidelines for scaling up and out climate smart villages/other practices for enhanced resilience at national/sub-national/local level. Pilots that could be scaled up and out need to reach a large number of farmers	Improve or develop new insurance products for managing climatic risks. Community/private sector based partnership models for their dissemination and implementation	Assess interventions for the sustainable intensification of rice and livestock for their biophysical and economic mitigation potentials	Develop policies and institutions for scaling out the models of climate smart development (the latter arising from Flagship 1)
Develop improved/innovative practices/incentives/policies for increasing resilience and adaptive capacity at local and landscape scale.	Develop strategies for management of food systems in relation to climatic variability		Update assessment of the regionally and temporally differentiated impacts of climate change scenarios on natural resources and food production

South East Asia (Note: This is still a work in progress)

Flagship 1: CSA practices	Flagship 2: Climate information services and climate-informed safety	Flagship 3: Low emissions development	Flagship 4: Policies and institutions for climate-resilient
Modalities that will link farm CSV to bigger landscape and administrative units through various participator approaches and a <i>series of</i> transition pathways to more sustainable land use.	nets Understanding farmer demand for climate services in different agroecological zones (e.g. coastal, lowland, upland) for crops, livestock, and fisheries; and the building capacity to effectively deliver them.	Approaches/strategies for upscaling/out-scaling mitigation measures (e.g. AWD) used by small-holders farmers in local agricultural productions system in SEA.	Folicy and institution action mapping methods and high-impact intervention points including methods of private sector participation
Effective strategies and policy measures at village to sub-national level that support greater resilience and sustainability to climate change among women and men farmers and ethnic minorities through better use of local knowledge and available natural and biological resources (e.g. crop diversification, watershed management).	Mobile phone based and other innovative schemes for communicating productivity enhancing agricultural knowledge and practices enriched with climate smart agriculture information. This includes linking weather based information to local knowledge and farmers' friendly terms. Special focus is needed on the highly vulnerable areas, marginalized farming sectors, women, youth, and ethnic minorities.	Improve landscape governance and effectiveness of sustainability initiatives for agricultural industries that promote deforestation and high greenhouse gas emissions (e.g. oil palm).	Policy information sharing platform on CC for SEA countries Methods for country-wide scaling-up of CSV experiences and analysis of CS roadmaps. Tools and a series of case studies for food security planning (including aquaculture) and crop yield forecasting
Innovative incentive mechanisms to support climate smart villages and rural development. Studies can look at promising options and identify factors that influence success.	Enhance food security decision- making by tailoring early warning systems to response mechanisms, including food security safety nets and policy interventions Assessment of potential for weather-	Providing incentive systems that promotes practices mitigating greenhouse gasses and climate changes adaptations in rural communities and household in their use of agricultural products and by products (especially women). Establishing regional support	Assessment of regionally differentiated impacts of climate change scenarios on food production

r	related insurance in target countries,	systems (e.g. clearing house) for	
i	including index development and	more effective NAMA	
i i	institutional partnerships	implementation among SEA	
		countries providing technical	
		advices, options and services.	

Cross FP: Developing multi-scalar strategies to enhance the resilience of water supply and farming systems under increasing climate and development pressures in the major river basins of SEA "

Approach:

- Multi-scale analysis from CSV scale through to the basin scale;
- Comparative analysis of basins with levels of development (e.g. Red or Chao Phraya R) with those with low levels of development (Mekong River);
- Builds upon the basin scale water accounting framework (CRP5) to assess climate smart storage and land use planning options.

Topics would include:

Resource and impact assessments at village scale from uplands through to deltas

Analysis of future climate forecasts, stakeholder-driven development scenarios and prospective adaption and mitigation measures

Implementation and evaluation of most prospective adaption/mitigation scenarios in CSVs

Recommendations for upscaling building on village-level experience

Latin America (the regional program strategy has still be discussed by the management team and ISP)

Flagship 1: CSA practices	Flagship 2: Climate information services and climate-informed safety nets	Flagship 3: Low emissions development	Flagship 4: Policies and institutions for climate-resilient food systems
Provide tools for small farmers in order to increase their resilience to floods and droughts, in particular, CCAFS will promote intensification and diversification practices of cropping systems in the face of climate variability. Activities to reduce the emissions of GHG through diversification will be strategic for the region.	Contribute to the implementation of participatory early warning systems and insurance mechanisms.	Tailor decision-support tools related to low emissions development to NARES and policy makers to help inform agricultural development policy, with a focus on commodity agriculture and avoided conversion of forest lands.	Support and contribute to the formulation of National Adaptation Plans and to the inclusion of climate issues on agricultural policies.
Focus on learning activities oriented to young people and children to transfer knowledge to make climate smart agriculture decisions.	Provide access to climate information to rural communities, especially women, allowing them to participate in the decision making process related to food security, nutrition and rural entrepreneurship.	Implement the SAMPLES tool in Latin America, making special emphasis on trade-offs of sustainable intensification, avoiding deforestation while supporting local livelihoods and food security.	
Assess a hub system as an innovative approach to develop and scale-out locally adapted technology and build local capacity. Special attention will be placed on the development of knowledge platforms through mobile and ICT technologies to support innovation in the hub system.	Implement communities of practice to build seasonal forecasting systems involving various meteorological services institutions of the region.	Support CRP6 in REDD+ initiative on carbon in setting financial mechanisms to help kick-start agricultural diversification efforts	

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	Demonstrate the value of integrating	Provide tools to make investment	Elaborate socioeconomic scenarios
	information on weather variability	choices that consider food security,	for Central American (Honduras, El
	and extremes into agro-	adaptation and mitigation targets,	Salvador, Nicaragua, Guatemala,
	meteorological packages, including a	both at national and local level	Costa Rica, Panama, and Belize)
	methodology for communicating	(including models that combine	and Andean countries (Bolivia,
	climate information at scale to	macro level economic models with	Colombia, Ecuador and Peru)
	farmer communities.	detailed models of biophysical	through participatory mechanisms
		processes in order to provide policy	and using the IMPACT and
		makers a portfolio of development	GLOBIOM models, as well as
		strategies that weigh emissions	support the use of the scenarios by
		reductions against possible trade-	regional and national stakeholders.
		offs in terms of agricultural output	
		or GDP).	
		Support the formulation of NAMAS	CCAFS will work closely with CAC
		on commodity agriculture and	(Consejo Agropecuario
		avoided conversion of forest lands.	Centroamericano) as a strategy to
			approach to decision makers in the
			agricultural sectors.
Work with existing rural agro-	Work with national disaster agencies		
advisory services to strengthen	and NGOs in order to provide them		
their capacity to transfer	with climate information to prevent		
knowledge in order to enable the	major impacts in crops, as well as to		
implementation of CSA practices	respond with disaster early recovery		
by communities of farmers	practices/varieties to diminish		
considering gender equity and	impacts in income and food security		
differentiation.	when facing floods and droughts.		
Identify, rescue, test, validate and	3 11 11 11 11 11		Search for viable partners to
adopt practices and technologies			influence policy formulation and
that contribute to enhance			decision making through
adaptive capacity on agricultural			research/evaluation/test of
systems to climate variability and			alternative paths considering
change (including case studies			context specific actors and
and systematization of			processes.
experiences).			p. 5003503.
ехрепенесу.	<u> </u>	<u> </u>	

Support the development of	Promote and facilitate South -
technologies and methodologies	South cooperation of initiatives
for the conservation of	both in adaptation and mitigation
biodiversity in-situ and ex situ, as	exchanging knowledge and
well as plant breeding to diversify	experience.
crops, species and varieties,	
according to the challenges of	
climate change.	