Submitted on 2016-03-02 at 17:27 UTC

CCAFS CORE W1_W2 ONLY

Title: Low Emission Development Strategies Across Scales

Start date (dd-MM-yyyy)	01-01-2015	**End date (dd-MM-yyyy)**	31-12-2017
Management liaison	RP LAM - Latin America Region	**Mgmt. liaison contact**	Loboguerrero, Ana Maria <a.m.loboguerrero@cgiar.org>
Lead organization	IFPRI - International Food Policy Research Institute - United States	**Project leader**	De Pinto, Alex <a.depinto@cgiar.org>
Project type	CCAFS CORE	**Detailed project workplan**	Mer Flagships.pdf

Project is working on

Flaship(s)	Region(s)
FP3: Low Emissions Agricultural Development	RP LAM: Latin America

Bilateral project(s) contributing to this project

This project does not have Bilateral projects

Summary

This project will model future land use change and associated changes in carbon stock and GHG emissions at multiple scales. It will reconcile national targets with sub-national or sectoral objectives and it aims to develop guidelines and action plans to achieve sustainable mitigation plans mindful of their effects on rural livelihoods. Intervention points and incentives necessary to broker mitigation policies across multiple parties will be identified. The project is integrated with ongoing national and sub-national land use planning processes in Colombia and Peru and builds on ongoing collaborations with multiple ministries in the two countries. As a result, the targeted areas will be on a demonstrable trajectory of net GHG emissions reduction by 2018.

2. Partners

Partner #1

Institution: CIAT - Centro Internacional de Agricultura Tropical

Contacts

Type	Contact	Responsibilities and contributions
Partner	Laderach, Peter <p.laderach@cgiar.org>	Building on the existing LEDS work in Colombia, CIAT will provide modeling support (general support, and targeted to Colombia), data gathering, and stakeholder interaction for the evaluation of land use change scenarios.
Partner	Hyman, Glenn <g.hyman@cgiar.org>	Activity 2014-67 *Partner*. Activity 2014-70 *Leader*.

Partner #2

Institution: ICRAF - World Agroforestry Centre

Contacts

Type	Contact	Responsibilities and contributions
Partner	Neufeldt, Henry <h.neufeldt@cgiar.org>	ICRAF will provide modeling support (general support, and targeted to Peru), data gathering, and stakeholder interaction for the evaluation of land use change scenarios. ICRAF will be in charge of the use and implementation of the Land Use Planning for Low Emissions Development (LUWES) methodology.
Partner	Robiglio, Valentina <v.robiglio@cgiar.org>	Activity 2014-67 *Partner*. Activity 2014-72 *Leader*.

Partner #3 (Leader)

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Project Leader	De Pinto, Alex <a.depinto@cgiar.org>	Activity 2014-67 *Leader*.

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Partnerships overall performance over the last reporting period: The partnership would have worked well. IFPRI, CIAT, and ICRAF, met in February (and several times on Skype) to chart the course of the project. Unfortunately, the first round of cuts in March and then in November didn't permit the work to progress.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: The major lesson is that wonderful coalitions of very capable and willing can be annihilated but the fund uncertainty.

3. Locations

Project level	Latitude	Longitude	Name
Country	Not applicable	Not applicable	Colombia
Country	Not applicable	Not applicable	Peru
District	2.9615	2.9615	Cauca
Province	-9.4742	-9.4742	Ucayali

4. Outcomes

4.1 Project outcome narrative

Project outcome statement
The expected outcome is that a series of mitigation plans will be formulated by the competent authorities (might that be the ministries of Agriculture and Environment and/or producer organizations such as FEDEGAN, FEDEPALMA, and FEDEARROZ) utilizing the information and negotiation outcomes provided by this project. As a result, the target areas will be on a demonstrable trajectory of net GHG emissions reduction by 2018. The project will be based on, and directed at, ongoing national and sub-national processes targeting emissions reduction across sectors, in particular agriculture and forest. The project will engage relevant ministries, producers' associations and other groups responsible for either the fund allocation across sectors or the formulation or implement mitigation initiatives. Participatory and negotiation processes will be implemented and facilitated to guarantee that the priorities and preferences of local actors (producer associations and technical and civil society), of agencies responsible for regional strategies, and of government agencies are integrated to the greatest extent possible.

Annual progress towards outcome (end of 2015): A broad range of stakeholders will be identified and engaged to understand the interests and objectives of government agencies, producer organizations, conservation groups and other potentially interested parties. A first set of possible scenarios for land use change brought about by economic forces combined with mitigation plans will be developed and possible areas of conflict and synergies identified. The main outcome for the coming year will be the identification of conflicting or synergistic plans in each country. Ultimately we expect that national governments and producer organizations will use use our analysis of areas of conflict or synergy as input to planning process.

Annual progress towards project outcome in the current reporting cycle (2015): The data set for the modeling and analysis was created in Peru and contacts with stakeholders initiated in Colombia. Initial work on downscaling of country-level results to produce localized scenarios were initiated. Budget uncertainty didn't allow us to proceed with the full identification of conflict areas.
Communication and engagement activities have contributed to achieving your Project outcomes: I really don't understand this question.There would be no progress without communication and engagement was part of the planned outcome.
Evidence documents of progress towards outcomes: <Not defined>

Annual progress towards outcome (end of 2016): The modeling of LEDS across scales will be completed and a working paper on the methodology used will be submitted to the IFPRI discussion paper series.
Engagement with stakeholders and analysis of scenarios will be completed. Consultations

and iterative meetings leading to final report will also have been implemented .Engagement with stakeholders and analysis of scenarios and working papers for both Colombia and Peru' will be submitted.

Annual progress towards outcome (end of 2017): Article and report on "Climate change mitigation strategies: moving across geographical and stakeholder scales" will be presented at a conference, and knowledge sharing events with government officials in the ministries of agriculture and environment and national planning department will have been implemented by the end of 2017. The training of stakeholders in simple estimation of emissions from land use change and of the impacts of these changes on livelihoods will be completed.

Annual progress towards outcome (end of 2018): <Not defined>

Lessons regarding your Theory of Change and implications for the coming planning cycle; e.g. how have your assumptions changed, or do you have stronger evidence for them: Our theory of change was perfect in Colombia and the work would have had a great impact.

4.2 Contribution to CCAFS Outcomes

RP LAM - Outcome 2019: National governments formulate and implement NAMAS and LEDS based on improved data on smallholder agricultural GHG emissions and implement equitable policies to strengthen linkages among environment and agriculture in order to avoid deforestation from commodity agriculture, promote restoration to increase carbon sequestration and reduce GHG emissions from livestock and commodities. Research organizations generate improved data on smallholder agricultural GHG emissions. Local governments contribute to the development of NAMAS and LEDS action plans at local level.

Indicator #1: FP3 Indicator: # of low emissions plans developed that have significant mitigation potential for 2025, i.e. will contribute to at least 5% GHG reduction or reach at least 10,000 farmers, including at least 10% women.

2019	
Target value: 4	**Cumulative target to date:** 9

2019
Target narrative: By informing ongoing international, national and sub-national processes targeting emissions reductions across sectors, in particular agriculture, forest management and conservation, the project will enable the definition of achievable mitigation targets and the implementation of mitigation plans. Direct targets of our research output in Colombia are: (1) USAID EC-LEDS (Colombia'), (2) the Colombian Low Carbon Development Strategy (3) the Livestock NAMA, and (4) local land use plans in Cauca Department. We will involve key actors working in the development of these plans in Colombia, as a way to motivate the use of the results in the planning instruments that they are working on. In Peru', the we will target the following: USAID EC-LEDS (Peru'), the Agricultural NAMA for Peru (MINAGRI) and National Strategy for Climate Change and Forest (ENCCB –MINAM) By informing ongoing international, national and sub-national processes targeting emissions reductions across sectors, in particular agriculture, forest management and conservation, the project will enable the definition of achievable mitigation targets and the implementation of mitigation plans. Direct targets of our research output are: (1) USAID EC-LEDS (Colombia'), (2) the Colombian Low Carbon Development Strategy (3) the Livestock NAMA, and (4) local land use plans in Cauca Department. We will involve key actors working in the development of these plans in Colombia, as a way to motivate the use of the results in the planning instruments that they are working on. By informing ongoing international, national and sub-national processes targeting emissions reductions across sectors, in particular agriculture, forest management and conservation, the project will enable the definition of achievable mitigation targets and the implementation of mitigation plans. Direct targets of our research output are: USAID EC-LEDS (Peru'), the Agricultural NAMA for Peru (MINAGRI) and National Strategy for Climate Change and Forest (ENCCB –MINAM).
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>

2015		
Target value: 5	**Cumulative target to date:** 5	**Target achieved:** 0.0
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: we did not achieve any target in 2015 and it was not in the plan to achieve anything in one year		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: NONE		

2016	
Target value: <Not defined>	**Cumulative target to date:** 5
Target narrative: <Not defined>	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>	

2014		
Target value: <Not defined>	**Cumulative target to date:** 0	**Target achieved:** <Not defined>
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: <Not defined>		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>		

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways

We expect that the feasibility of mitigation plans will be improved through this engagement and that stakeholder support for such plans will increase. By understanding the concerns at each scale, the project participants will be able to apply lessons learned that go beyond the context in which they normally work. This process will facilitate consideration and negotiation among an array of interests with the goal of reconciling the structure imposed at national levels with agency represented at local levels.

Collaborating with other CRPs: <Not defined>

4.4 Outcome case studies

There is not an Outcome Case Study added.

5. Project outputs

5.1 Overview by MOGs

Major Output groups - 2019

FP3 - MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Brief bullet points of your expected annual 2019 contribution towards the selected MOG
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Major Output groups - 2014

FP3 - MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Brief bullet points of your expected annual 2014 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2014 contribution towards the selected MOG:
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2014 outputs:
<Not defined>

Major Output groups - 2015

FP3 - MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2015 contribution towards the selected MOG:
None

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2015 outputs:
NOne

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Major Output groups - 2016
FP3 - MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives **Brief bullet points of your expected annual 2016 contribution towards the selected MOG** <Not defined> **Brief plan of the gender and social inclusion dimension of the expected annual output** <Not defined>

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: None

5.2 Deliverables

Deliverable #1

Main Information	
Title: Climate change mitigation strategies: moving across geographical and stakeholder scales	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Peer reviewed Publications	**Sub Type:** Peer-reviewed journal articles
Year of expected completion: 2016	
Status: <Not defined>	

Next-user #1
Land-Use change policy-makers and scholars
Knowledge, attitude, skills and practice changes expected in next-user: Will increase capacity to analyze policy effects across scales and emphasize the importance of working across scales rather than use aggregation methods.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: IFPRI communication will disseminate widely. Reports will be posted and disseminated using dedicated IFPRI climate change web site. At least one presentation at a conference

Next-user #2
Development professionals at USAID and World Bank working on LEDS
Knowledge, attitude, skills and practice changes expected in next-user: Will change the design of some mitigation projects, strategies, and targets
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing event in Washington DC, blog posts and dissemination through social media

Partners contributing to this deliverable
Partner #1 (Responsible): <Not defined>

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>

What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #2

Main Information	
Title: Low Emission Development Opportunities in Colombia. Working Across Scales and Sectors	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2017	
Status: <Not defined>	

Next-user #1
Government officials in the ministries of agriculture and environment and national planning department

Knowledge, attitude, skills and practice changes expected in next-user: Devise policies based on evidence. Increased attention to repercussions of mitigation policies on local livelihoods.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Consultations with stakeholders on which data should be utilized.
Consultations and iterative meetings on scenario building.and assessment leading to final report.
Final event on sharing results.

Next-user #2

Producers' associations, for example: FEDEGAN, FEDEPALMA, FEDEARROZ

Knowledge, attitude, skills and practice changes expected in next-user: Knowledge base of effects of mitigation policies.
Attitude towards the economic feasibility of mitigation plans.
Enhanced capacity to negotiate mitigation targets among stakeholders.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Consultations with stakeholders on which data should be utilized.
Consultations and iterative meetings on scenario building.and assessment leading to final report.
Final event on sharing results.

Partners contributing to this deliverable

Partner #1 (Responsible): <Not defined>

Deliverable Ranking

Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #3

Main Information	
Title: Low Emission Development Opportunities in Peru. Working Across Scales and Sectors	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2017	
Status: <Not defined>	

Next-user #1
Government officials in the ministries of agriculture and environment and national planning department
Knowledge, attitude, skills and practice changes expected in next-user: The information provided and experience accumulated constructing and analyzing scenarios will facilitate agreements among partners involved in the achievement of mitigation goals and strategies.It will build trust in the data utilized and in the results. It will also provide guidance on the type and format of consultations among stakeholders necessary to build consensus around mitigation goals.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Consultations with stakeholders on which data should be utilized. Consultations and iterative meetings on scenario building.and assessment leading to final report. Final event on sharing results.

Next-user #2
<Not defined>
Knowledge, attitude, skills and practice changes expected in next-user: <Not defined>

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: <Not defined>

Partners contributing to this deliverable
Partner #1 (Responsible): <Not defined>

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #4

Main Information
Title: Engaging multiple stakeholders for sustainable mitigation strategies. Methods and lessons learned.

MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report

Year of expected completion: 2016

Status: <Not defined>

Next-user

National and Local Government officials (;Departmental government, Ministries of Agriculture and Environment), Producer organizations (FEDEGAN, FEDEPALMA)

Knowledge, attitude, skills and practice changes expected in next-user: We will help our local partners raise their awareness of climate change mitigation, given they they typically less knowledgeable than national-level partners. The knowledge base for land use planning will be expanded. Partners trained in simple estimation of emissions from land use change and of the impacts of these changes on livelihoods.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: At the national level, the project will work with partners working on national emissions reduction strategies and NAMAs with the expectation that results will be used in these plans. At the local level, the project will work with land use planning officials with the goal that data, information, insights and lessons learned can be integrated into local planning processes such as the POT (Plan de Ordenamiento Territorial). Our strategy is to involve local partners and decision makers throughout the whole process, having their technical people involved in calculating the emissions and livelihood impacts of land use change. Because they set the scenarios and analyze the impacts of these scenarios, it is expectec that the results will be much more easily taken up.

Partners contributing to this deliverable

Partner #1 (Responsible): <Not defined>

Deliverable Ranking

Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #5

Main Information	
Title: Engaging multiple stakeholders for sustainable mitigation strategies. Methods and lessons learned.	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2017	
Status: <Not defined>	

Next-user
Government officials of the Ministry of Agriculture and Environment, Regional officials involved in Climate Change land use planning and agricultural development agencies,
Knowledge, attitude, skills and practice changes expected in next-user: Knowledge base for the integrated land use planning will be expanded. Next user integrate the emission/mitigation component and impact on livelihoods analysis and analysis of tradeoffs in the definition of national level targets and in the development of land zoning and land use plans . Sectorial specialists will be integrated in the definition of plans across levels and for multiple crops.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: The interaction of the actors involved in NAMAs and LEDS with the agencies and institutions responsible for land use planning and strategic economical planning at the national and sub national level will be facilitated through the establishment of a series of dialogue platforms.
At the national level, the project will work with partners engaged in national emissions reduction strategies and agricultural NAMAs with the expectation that results will be used in the design and implementation of these plans and in reinforcing multi-sectorial and cross ministerial interactions. Training events will be organized and focal points identified in the key institutions to follow the project progresses and benefit of more in depth capacity building;
At the local level, the project will work with land use planning officials and official of sectorial regional agencies with the goal of integrating and align outputs across decision making levels and among stakeholders. Flows of information about plans and designs across levels will be facilitated.

Partners contributing to this deliverable
Partner #1 (Responsible): <Not defined>

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

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Deliverable Data sharing
Deliverable files <Not defined>

5.3 Summary on next-users

Next user #1
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: we did not arrive at a real engagement of the next uses although in Colombia, as a result of the work on low emission development strategies, the ministry of the environment and other government agencies as well as USAID were very interested in the downscaling work.
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: none
Reported deliverables serve as evidence towards this achieved change: none
Lessons and implications for the next planning cycle: none

5.4 Project highlights

6. Activities

Activity #1	
Title: Modeling multiscale LEDS	
Description: Modeling, simulations and comparisons of national and sub-national mitigation strategies to gain insights on the trade-offs between emission reduction objectives of different stakeholders. This activity will create an operationally coherent link between IFPRI's LEDS modeling framework, which evaluate country-level emissions reduction strategies vis a vis a baseline determined by global economic and climate change trends with the Land Use Planning for Low Emissions Development (LUWES) methodology – which works primarily at sub-national and local levels.This activity almost covers the length of the entire projects as it goes through iterations given interactions with stakeholders.	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 30-04-2017
Leader: De Pinto, Alex <a.depinto@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** work ended as soon as we learned of additional budget cuts in November

Activity #2	
Title: Multi-scale stakeholder engagement - Colombia	
Description: Survey and engagement of national, sub-national stakeholders and local-level decentralized government units to asses multiple competing interests and developed mitigation strategies that account for the objectives of different stakeholders. Once this information is gathered we will use our model to present stakeholders alternative mitigation scenario and attempt to developed viable strategies negotiations and identification of possible incentives. We expect that the methods and tools developed by this model will be utilized to enhance and harmonize plans and policies that are developed by stakeholders operating at different geographical scales. We also expect that a direct results of the project will be an enhanced capacity of the parties involved to negotiate, based on evidence, viable mitigation policies.	
Start date (dd-MM-yyyy): 01-03-2015	**End date (dd-MM-yyyy):** 31-12-2017
Leader: Hyman, Glenn <g.hyman@cgiar.org>, CIAT - Centro Internacional de Agricultura Tropical	
Status: On-going	**Justification:** work ended as soon as we learned of additional budget cuts in November

Activity #3
Title: Multi-scale stakeholder engagement - Peru

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Description: Survey and engagement of national, sub-national stakeholders and local-level decentralized government units to asses multiple competing interests and developed mitigation strategies that account for the objectives of different stakeholders.
Once this information is gathered we will use our model to present stakeholders alternative mitigation scenario and attempt to developed viable strategies negotiations and identification of possible incentives.

We expect that the methods and tools developed by this model will be utilized to enhance and harmonize plans and policies that are developed by stakeholders operating at different geographical scales. We also expect that a direct results of the project will be an enhanced capacity of the parties involved to negotiate, based on evidence, viable mitigation policies.

Start date (dd-MM-yyyy): 01-03-2015	**End date (dd-MM-yyyy):** 31-12-2017
Leader: Robiglio, Valentina <v.robiglio@cgiar.org>, ICRAF - World Agroforestry Centre	
Status: Complete	

Lessons regarding your project activities and possible implications for the coming planning cycle: The lesson is that cutting budget as a project is implemented is bed for morale.

7. Leverages

<Not defined>

Submitted on 2016-03-04 at 15:30 UTC

Title: Macro-scale governance and institutions analysis through three country case studies

Start date (dd-MM-yyyy)	01-01-2015	**End date (dd-MM-yyyy)**	31-12-2016
Management liaison	F4 - Flagship 4	**Mgmt. liaison contact**	Foerch, Wiebke <w.foerch@cgiar.org>
Lead organization	IFPRI - International Food Policy Research Institute - United States	**Project leader**	Meinzen-Dick, Ruth <r.meinzen-dick@cgiar.org>
Project type	CCAFS CORE	**Detailed project workplan**	<Not defined>

Project is working on

Flaship(s)	Region(s)
FP4: Policies and Institutions for Climate-Resilient Food Systems	RP SEA: South East Asia

Bilateral project(s) contributing to this project

This project does not have Bilateral projects

Summary

This study provides diagnosis and analysis to assist inclusion of agriculture in climate change policies and of climate issues in agricultural policies in a way that benefits the rural poor.
It examines process of agriculture, food security and climate change governance interface, using case studies in CCAFS focal countries (tentatively Vietnam, Nepal, Bangladesh).
This study will address a number of key questions related to governance and climate change policies, including:
•What actors and interest groups are setting (and blocking) the climate change/ agriculture policy agenda in each country?
•How is agriculture included in the climate change agenda, and climate change agricultural policy?
•How are the interests of women, and marginalized ethnic groups included or considered in these policy processes?
•What is the role of CCAFS partners in these processes?
•What are opportunities for CCAFS to expand policy attention to agriculture and climate change?

2. Partners

Partner #1 (Leader)

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Project Leader	Meinzen-Dick, Ruth <r.meinzen-dick@cgiar.org>	Overall project lead, developing methodologies, writing papers
Project Coordinator	Theis, Sophie <s.theis@cgiar.org>	Assist with project, including field work, writing, and reporting

Partner #2

Institution: NIAPP - National Institute of Agricultural Planning and Projection

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - United States

Contacts

Type	Contact	Responsibilities and contributions
Partner	Lan, Vu Cong <htqt-niapp@hn.vnn.vn>	Convening meetings in Vietnam, providing access to key informants, staff conducting netmapping and key informant interviews, coauthoring Vietnam paper

Partnerships overall performance over the last reporting period: Overall, the link to the LACCMA project in Vietnam was excellent, because it built on trust and collaboration that was ongoing, and this project provided important information to that project. It did, however, require working in more detail at the provincial and district level, whereas this activity was to focus at the national level. However, that provided some greater depth and understanding of the implications and implementation of national policy. IFPRI was unable to do a planned follow-up visit to Vietnam in November, due to departure of Quinn Bernier and a conflict for PI Ruth Meinzen-Dick. The Vietnamese partners have been excellent.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: For 2016, Ruth Meinzen-Dick is working with the IFPRI South Asia office for

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Nepal and seeking other collaborators who know climate change policy in Vietnam

3. Locations

Project level	Latitude	Longitude	Name
Country	Not applicable	Not applicable	India
Country	Not applicable	Not applicable	Vietnam

4. Outcomes

4.1 Project outcome narrative

Project outcome statement
CCAFS partners use the findings of this research to identify entry points for ensuring that agriculture is included in climate change programs (or climate change in agriculture programs), or identify and overcome factors that are blocking the integration of agriculture and climate change in programming. The most direct outcomes are likely to be in the country of study, but certain analyses, particularly of climate change discourse, may be used in other countries as well. The most direct links are likely to be in ministries of agriculture.

Annual progress towards outcome (end of 2015): <Not defined>

Annual progress towards project outcome in the current reporting cycle (2015): Stakeholder netmapping at regional and district level in Vietnam indicated that government agencies are well coordinated in integrating climate change in agricultural policy. This integration goes from the national to the district level, and across agencies. Formal processes are relatively centralized, but informal communication supplements this, so there do not appear to be major bottlenecks. However, private sector actors are not necessarily integrated into this process, and may be working at cross purposes, e.g. in developing large-scale enterprises that may undermine mangroves or reduce carbon sequestration. Further work in 2016 will address how this information can be used.
Communication and engagement activities have contributed to achieving your Project outcomes: To date, most of this has been through direct collaboration with NIAPP, as well as collaboration with ICRAF's climate smart village initiatives. In 2016 we will do more formal outreach with the study findings.
Evidence documents of progress towards outcomes: <Not defined>

Annual progress towards outcome (end of 2016): The research will bring together many different stakeholders involved in climate change/agriculture policy for netmapping exercises and invite key informants to reflect on the linkages between agriculture and climate change in policy. This will increase the openings for analysis of the opportunities for enhancing this policy space.

Annual progress towards outcome (end of 2017): Publication of the studies and presentation at seminars (including at least one webinar for CCAFS) will provide broader awareness of the opportunities, beyond the study countries.

Annual progress towards outcome (end of 2018): <Not defined>

Lessons regarding your Theory of Change and implications for the coming planning cycle; e.g. how have your assumptions changed, or do you have stronger evidence for them: <Not defined>

4.2 Contribution to CCAFS Outcomes

RP SEA - Outcome 2019: Policy makers enhancing the design, investment decisions, implementation and monitoring and evaluation of agro - sectoral climate change policies through a transparent, coordinative and consultative mode from local to national level.

Indicator #1: FP4 Indicator: # of equitable national/subnational food system policies enacted that take into consideration climate smart practices and strategies

2019	
Target value: <Not defined>	**Cumulative target to date:** 4
Target narrative: <Not defined>	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>	

2015		
Target value: 1	**Cumulative target to date:** 1	**Target achieved:** 0.0
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: Although Vietnam has undertaken national food system policies that consider climate change, we cannot take credit for that based on this project. However, we hope that we will be able to have more influence in Nepal.		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: None to date.		

2016	
Target value: 3	**Cumulative target to date:** 4
Target narrative: At least one project per country will be informed by the analysis of actors and interest groups that are affected by climate change in agriculture. In particular, the netmapping exercise and discourse analysis will provide CCAFS partners with insights on possible entry points for building coalitions for policies to support climate smart agriculture.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: The netmapping exercise and key informant interviews will seek to identify the extent to which women's groups or marginalized ethnic or occupational groups have voice in decisionmaking related to land use and climate change decisions in agriculture.	

2014		
Target value: <Not defined>	**Cumulative target to date:** 0	**Target achieved:** <Not defined>
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: <Not defined>		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>		

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways: <Not defined>

Collaborating with other CRPs

Policies, Institutions and Markets
Description of collaboration: Discussions with PIM activities on policy process--an emerging cluster under PIM next phase
The achieved outcome contributions: <Not defined>

4.4 Outcome case studies

There is not an Outcome Case Study added.

5. Project outputs

5.1 Overview by MOGs

Major Output groups - 2019

FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Brief bullet points of your expected annual 2019 contribution towards the selected MOG
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Major Output groups - 2014

FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Brief bullet points of your expected annual 2014 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2014 contribution towards the selected MOG:
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2014 outputs:
<Not defined>

Major Output groups - 2015

FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2015 contribution towards the selected MOG:
Research under this activity in Vietnam complemented scenario analysis for landscape-level planning to meet national goals.

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2015 outputs:
There were not major gender dimensions in the national-level policy issues in Vietnam, but at the district level, the stakeholder netmapping identified the role of women's groups.

Major Output groups - 2016

FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Brief bullet points of your expected annual 2016 contribution towards the selected MOG
Stakeholder netmapping and analysis of policy process in 3 countries will identify opportunities for CCAFS partners to identify entry points for integrating agriculture and climate change policies.

Brief plan of the gender and social inclusion dimension of the expected annual output
We will identify the extent to which women and marginalized ethnic groups have input in agriculture/climate change policies

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: <Not defined>

5.2 Deliverables

Deliverable #1

Main Information	
Title: Country case study--Nepal	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Working paper
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Ministry of Agriculture and CCAFS partners in Nepal
Knowledge, attitude, skills and practice changes expected in next-user: Knowledge of stakeholder constellations and skills to be able to advocate for integration of agriculture and climate change policies
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: We will work closely with Ministry of Agriculture, which has invited IFPRI to advise on setting up the Ministry under the new constitution. Netmapping exercises will be conducted with the Ministry staff and other stakeholders, which will further dialogue, and Ministry staff will develop the skills to do netmapping themselves.

Partners contributing to this deliverable
Partner #1 (Responsible): Theis, Sophie <s.theis@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #2

Main Information	
Title: Country case study--Vietnam	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Working paper
Year of expected completion: 2016	
Status: <Not defined>	

Next-user #1
NIAPP and CCAFS partners in Vietnam
Knowledge, attitude, skills and practice changes expected in next-user: Knowledge of advocacy coalitions that may be advancing or blocking the harmonization of agriculture and climate change policies; skills in being able to work with these different groups to improve policy integration.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: NIAPP and CCAFS climate smart village partners are involved in the stakeholder netmapping and as partners in this research. Thus, they are learning the netmapping methods and participate in the analysis, so they are engaged throughout the process.

Next-user #2
Climate change research community (Vietnam and international)
Knowledge, attitude, skills and practice changes expected in next-user: knowledge of how advocacy and discourse coalitions affect climate change policy, and skills to apply netmapping for stakeholder identification
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: In addition to the working paper (which will be submitted for a subsequent peer reviewed journal article), we will provide a seminar/webinar that discusses the methods used and findings. We will also explore doing a discussion forum on this at the next Global Landscapes Forum.

Partners contributing to this deliverable
Partner #1 (Responsible): Lan, Vu Cong <htqt-niapp@hn.vnn.vn>, NIAPP - National Institute of Agricultural Planning and Projection

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #3

Main Information	
Title: Country case study--Bangladesh	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Working paper
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Ministry of Agriculture officials and CCAFS partners
Knowledge, attitude, skills and practice changes expected in next-user: Knowledge of advocacy coalitions that may be advancing or blocking the harmonization of agriculture and climate change policies; skills in being able to work with these different groups to improve policy integration.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: We will use the IFPRI South Asia and Bangladesh offices with their excellent policy connections to convene stakeholders, and involve them throughout the research, which increases the likelihood of uptake.

Partners contributing to this deliverable
Partner #1 (Responsible): Theis, Sophie <s.theis@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

5.3 Summary on next-users

Next user #1
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: NIAPP - National Institute of Agricultural Planning and Projection - Vietnam learned how to conduct stakeholder netmapping and participated in key informant interviews, to develop a perspective on how different actors are affected by climate-related policy in agriculture, and the effect of private sector in influencing land use policy.
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: We built on the Landscape Approach to Climate Change Mitigation in Agriculture (LACCMA) project's ongoing engagement with NIAPP, to make the netmapping exercise relevant to them. After a short training on how to do netmapping, NIAPP participated in refining the relevant questions to use, identifying the relevant actors to participate, and led the netmapping exercises.
Reported deliverables serve as evidence towards this achieved change: Netmapping report (draft being revised)
Lessons and implications for the next planning cycle: We will use a similar approach for completing the activities in Vietnam, and in other case studies.

5.4 Project highlights

6. Activities

Activity #1	
Title: Macro-scale governance and institutions analysis through three country case studies	
Description: We will conduct stakeholder netmapping and key informant interviews to identify the stakeholders and coalitions that advance the integration of agriculture in climate change policies (and vice versa).	
Start date (dd-MM-yyyy): 15-06-2015	**End date (dd-MM-yyyy):** 29-12-2017
Leader: Meinzen-Dick, Ruth <r.meinzen-dick@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** We conducted stakeholder netmapping and key informant interviews at the provincial and district levels in Vietnam, and preliminary interviews at national level. The national level activities need to be completed in Vietnam and Nepal.

Lessons regarding your project activities and possible implications for the coming planning cycle: <Not defined>

7. Leverages

<Not defined>

Submitted on 2016-03-04 at 04:15 UTC

CCAFS COFUNDED W1_W2_W3

Title: CSI India: Enhancing farmers' adaptive capacity by developing Climate-Smart Insurance for weather risk

Start date (dd-MM-yyyy)	01-01-2015	**End date (dd-MM-yyyy)**	31-12-2016
Management liaison	F2 - Flagship 2	**Mgmt. liaison contact**	Hansen, James <jhansen@iri.columbia.edu>
Lead organization	IFPRI - International Food Policy Research Institute - India	**Project leader**	Robles, Miguel <m.robles@cgiar.org>
Project type	CCAFS COFUNDED	**Detailed project workplan**	<Not defined>

Project is working on

Flaship(s)	Region(s)
FP2: Climate Information Services and Climate-Informed Safety Nets	RP SAs: South Asia

Bilateral project(s) contributing to this project
158 - CSI India: Enhancing farmers' adaptive capacity by developing CSI - India Food Security Portal

Summary

The main objective of this project is to enhance farmers' adaptive capacity by developing 'climate-smart insurance' (CSI) products. The project studies what type of insurance products can complement policies promoting climate-smart agriculture (CSA). The resulting portfolio of sustainable climate-smart insurance products will be implemented in selected sites in India. Specifically, our first activity is to develop a theoretical model that predicts when access to index insurance and policies promoting CSA technologies can reinforce each other. Calibration of the model will yield a portfolio of high-potential insurance products. Our second activity is to gather empirical evidence regarding the take-up of these products using a small scale pilot implementation. As a cross-cutting third activity, funded by a bilateral project we implement a communications strategy involving different stakeholders. We strive to ensure that in the long-run the most promising insurance products will be scaled-up, for the benefit of Indian farmers, by 2025.

2. Partners

Partner #1

Institution: CCAFS/CRP7 - CGIAR Research Program on Climate Change, Agriculture and Food Security

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>	IFPRI will work in close collaboration with the CCAFS South Asia Regional Leadership to build on existing partnerships and ongoing projects. The partner will be responsible for: - Facilitating the implementation of research activities by helping identify a financial institution and agro-advisory service provider as project partners, as well as identifying and facilitating meetings with local stakeholders and authorities (state and local). - Linking the project with ongoing activities in India's climate smart villages to ensure potential synergies are utilized to the fullest extent. - Provide input in crop modelling as required for the calibration of the theoretical framework.

Partner #2 (Leader)

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Project Leader	Robles, Miguel <m.robles@cgiar.org>	Activity 2014-409 *Leader*.
Partner	Kramer, Berber <B.Kramer@cgiar.org>	Activity 2014-109 *Leader*. Activity 2014-194 *Leader*. Activity 2014-345 *Leader*.

Partnerships overall performance over the last reporting period: Our partner CCAFS South Asia Regional Leadership has provided excellent resources to link the project with ongoing climate
smart village projects and to explore innovative insurance products to be tested as CSI (climate smart insurance)

Submitted on 2016-03-04 at 04:15 UTC

Lessons regarding your partnerships and possible implications for the coming reporting cycle: It has been important to work with our partner and take advantage that it is located in India, especially as project leader and researchers are based in Washington DC

3. Locations

Project level	Latitude	Longitude	Name
Country	Not applicable	Not applicable	India

4. Outcomes

4.1 Project outcome narrative

Project outcome statement
From 2015 to 2016, we will use our research findings to lay the foundation for having reached 1-2 State Ministries of Agriculture in India, 1-2 private insurance providers, 1-2 agro-advisories, 20 farmers associations, and 10 specialized media outlets by the year 2019. These next users will apply the knowledge and evidence generated by this project to facilitate, promote or offer climate-smart insurance, which we expect to improve at least one million farmers' adaptive capacity by 2025. Specific outcomes:
Publicity around CSI climate-smart insurance to create awareness of how climate-smart insurance can incentivize the adoption of CSA, and how CSA adoption in turn can increase demand for CSI. Knowledge of and attitudes to climate-smart insurance to enhance knowledge and awareness around CSI among project's next users
Institutional investments in climate-smart insurance by at least 1 State Ministry of Agriculture as a result of the knowledge and evidence generated.

Annual progress towards outcome (end of 2015): In the first year, we expect to make significant progress towards each of these outcomes. The most important milestone is the development of a theoretical framework, calibrated using historical data and experimental auctions. This conceptual framework will accordingly serve as an input in all interactions with next users to meet the targeted project outcomes.

Regarding our first set of next users, we intend to create publicity around climate-smart insurance through 2 specialized media outlets towards the end of 2015. First, a CCAFS-IFPRI policy brief will discuss the highlights of our initial findings, indicating the theory of change for different types of climate-smart insurance products. Second, we will develop a video, including footage from the experimental auctions and stakeholder interviews, to present our key messages and results. All our media outlets, videos and communications material will be available through a project's website that at the same time will be linked to the Food Security Portal – India.

Another target area in 2015 is the second outcome, i.e. improved knowledge of and attitudes to climate-smart insurance. A first indicator of progress towards this outcome is the development of a theoretical framework, and a calibration of this model by means of historical data and experimental auctions. A second indicator is the level of engagement of next users in product development, using inception meetings, key informant interviews and focus group discussions; and field visits for key stakeholders around the experimental auctions.

By engaging next users as part of our participatory product development, we do expect increased understanding among Ministries of Agriculture, insurance providers, agro-

advisories and farmers associations. Through that channel, the project will make significant progress towards the third and fourth outcome already in 2015.

Annual progress towards project outcome in the current reporting cycle (2015): In 2015 we have made progress developing a theoretical framework to understand the concept of climate smart insurance. We are in the process of developing a formal model that will be calibrated using field experiments that are planned to take place in 2016.
We have also implemented a survey in Punjab among near 800 farmers that has allowed us to identify attitudes toward climate-smart insurance and assess main weather risks.

Communication and engagement activities have contributed to achieving your Project outcomes: Communication and engagement activities will take place in 2016. In 2015 we have been working on a conceptual framework, collecting data through survey and focus group discussions and starting to visualize the design of insurance products. Once we develop a s

Evidence documents of progress towards outcomes: <Not defined>

Annual progress towards outcome (end of 2016): In the second year, we will have generated strong evidence to support progress towards outcomes. By the end of 2016 the most promising proposed CSI products will have been piloted and offered to farmers by local financial institutions. We will organize a policy workshop presenting all gathered evidence in 2015/16 and we will discuss the preconditions, investments needed and potential benefits of scaling up CSI. By the end of 2016 we expect significant progress on improved knowledge of CSI.

Annual progress towards outcome (end of 2017): In 2017 we expect to give continuity to the project by implementing additional climate-smart insurance pilot programs and conduct rigorous impact evaluations demonstrating and quantifying impact on CSA adoption and higher resilience to agricultural shocks by farmers. This will contribute to reach improved knowledge of and attitudes to CSI and will consolidate greater engagement by all next users. We expect at least at least 1-2 States to plan the adoption of CSI to existing insurance programs

Annual progress towards outcome (end of 2018): We envision initial investments by at least 1 State that is committed to scale up CSI programs and adopt them as part of its state-wide agricultural programs. Expected investments are in weather stations and equipment necessary, in capacity building to farmers, insurance companies and agro-advisories, and in making all historical weather and agricultural information publicly available. By 2018 we expect the formation of a special CSI working group to collaborate in implementing CSI programs at a large scale.

Lessons regarding your Theory of Change and implications for the coming planning cycle; e.g. how have your assumptions changed, or do you have stronger evidence for them: Our theory of change is that high quality insurance products can enable farmers facing

climate risk to adopt climate-smart technologies and help farmers protect their livelihoods from weather extremes. What we are learning is that any insurance product will have higher chance of success (high quality) when farmers understand the basic features of the product and when they feel they are part of the claim-payment process.

4.2 Contribution to CCAFS Outcomes

RP SAs - Outcome 2019: Boundary partners are developing better business models for public-private partnerships for climate informed agriculture risk management at different scales

Indicator #1: FP2 Indicator: Number of regional, national, and/or sub-national initiatives incorporating research outputs to develop or improve major demand-driven, equitable, climate informed services that support rural communities

2019	
Target value: 30	**Cumulative target to date:** 42
Target narrative: By 2019 the project aims to reach a large number (33) of regional, national and sub-national institutions that will be using the research outputs following from this project. Among these 33 institutions will be 10 specialized media outlets discussing (the implications of) our research outputs, 1-2 State Ministries of Agriculture in India starting to offer CSI climate-smart insurance, 1-2 private insurance providers and 1-2 agro-advisories joining public-private partnerships with these state ministries, and 20 farmers associations that are being engaged in the marketing and distribution of climate-smart insurance programs.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>	

2015		
Target value: 8	**Cumulative target to date:** 8	**Target achieved:** 5.0
Target narrative: In 2015 a main target outcome of this project (through Activity 2014-194) is to set up the theoretical framework, calibrate and test this framework, to understand the interplay between weather-related index insurance and CSA practices and technologies. These findings are expected to help improve knowledge and awareness around climate-smart insurance among 2 farmers' associations, 1-2 private insurance providers, 1-2 agro-advisories and 1-2 state government agriculture departments. Enhanced understanding among these actors of the rationale behind climate-smart insurance is an essential stepping stone towards the development of demand-driven, equitable, insurance products that help farmers cope with and mitigate weather risk. Moreover, we expect to reach 2 media outlets through this first activity (CCAFS and/or IFPRI policy brief highlighting the main findings and video footage of the auctions that will be screened at key stakeholder meetings).		

2015
Narrative for your achieved targets, including evidence: We have made progress in developing a theoretical framework and collecting data to calibrate and test this framework. This framework will be used to understand the interplay between weather-related index insurance and climate smart agriculture practices and technologies.
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: gender dis-aggregated data has been collected

2016	
Target value: 4	**Cumulative target to date:** 12
Target narrative: In 2016 the piloting (Through Activity 2014-109) of climate-smart insurance products will involve public sector planning on investments in the infrastructure necessary for the launch of larger pilot programs. We expect to reach 1-2 state governments through this activity and engage them in supporting the necessary investments. Further, we expect to establish a collaboration between an insurance provider or financial institution, an agricultural institution like a farmers' associations, and an agro-advisory, meaning that 3 additional subnational institutions use our research outputs to develop climate-smart insurance products as a first pilot implementation.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: By the end of 2016 our CSI pilots will provide evidence on the need to differentiate CSI products targeting women and on the potential welfare impact that CSI adoption can have when women are the adopters compared to men. This way better and gender specific CSI products can be developed to reach a faster expansion of CSI.	

2014		
Target value: <Not defined>	**Cumulative target to date:** 0	**Target achieved:** <Not defined>
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: <Not defined>		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>		

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways

Submitted on 2016-03-04 at 04:15 UTC

The project aims to enhance our understanding on how climate-smart insurance (CSI) can promote the wide-scale adoption of improved climate-smart agricultural practices and technologies, which will ultimately increase knowledge and awareness of the interplay between insurance and climate-smart agriculture among the specialized media, governments, agro-advisories, private sector and farmer organizations at the national, regional and global level. Through this channel, we contribute towards South Asia's FP1 outcome for 2019. Similarly the project contributes to Flagship 1 indicators by increasing knowledge and awareness among several institutions on how agricultural insurance can serve as a business model to create behavioral change.

Collaborating with other CRPs

Policies, Institutions and Markets
Description of collaboration: With PIM we have an ongoing related project with the objective to test novel insurance products for weather-related risks in developing countries to increase farmers' resilience to weather shocks. The entry point is to come up with high quality insurance products and bring in remote sensing technologies in product design.
The achieved outcome contributions: <Not defined>

4.4 Outcome case studies

There is not an Outcome Case Study added.

5. Project outputs

5.1 Overview by MOGs

Major Output groups - 2019

FP2 - MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners

Brief bullet points of your expected annual 2019 contribution towards the selected MOG
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Major Output groups - 2014

FP2 - MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners

Brief bullet points of your expected annual 2014 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2014 contribution towards the selected MOG:
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2014 outputs:
<Not defined>

Major Output groups - 2015

FP2 - MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2015 contribution towards the selected MOG:
- In 2015 we were in the process of designing climate smart insurance products. We have implemented a survey and focus group discussions to understand major risks and attitudes toward insurance products. We are working with collaborators to analyze satellite data to help design insurance products

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2015 outputs:
None gender and social inclusion dimension at this early stage of the project

Submitted on 2016-03-04 at 04:15 UTC

Major Output groups - 2016
FP2 - MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners **Brief bullet points of your expected annual 2016 contribution towards the selected MOG** - Weather insurance products with the potential to encourage CSA technologies adoption will be designed and tested at small scale pilots in Haryana and Punjab, India - Engagement of government officials, farmers associations and insurance industry with project evolution aiming at preparing the way for future scaling up **Brief plan of the gender and social inclusion dimension of the expected annual output** - As we design weather insurance products and test them we will pay attention to gender differences in take-up, potential impact, marketing channels and CSA technology adoption.

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: Direct involvement of farmers on the insurance cycle is important to add trust to the system and increase chances of higher demand

5.2 Deliverables

Deliverable #1

Main Information	
Title: Climate-smart insurance: Evidence based on theory, calibrations and experiments	
MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2016	
Status: On-going	**Justification for cancelling the deliverable:** CSI theoretical model is being developed. Data has been collected on main risks, attitudes toward insurance and climate smart technologies and risk aversion. Data and future field experiments will be used to calibrate the model and make model predictions.

Next-user #1
Private insurance providers and agro-advisories
Knowledge, attitude, skills and practice changes expected in next-user: Improved knowledge and awareness among insurance providers of how introducing climate-smart features can make insurance more sustainable; and improved knowledge and awareness among agro-advisories of how insurance can help farmers adopt climate-smart agriculture, and how insurance can serve as a business model to promote CSA technologies and practices.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: We aim to engage 1-2 private insurance providers and 1-2 agro-advisories in the design of the auctions by means of a participatory approach. Moreover, findings of the research report will be shared with this next user through media outlets.

Next-user #2
Farmers associations
Knowledge, attitude, skills and practice changes expected in next-user: Improved knowledge and awareness of how climate-smart insurance can potentially benefit their members. This in turn will help improve farmers associations' attitudes towards climate-smart insurance products and increase willingness to offer climate-smart insurance to their member farmers.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: We aim to engage 2 farmers associations in the design of the auctions by means of a participatory approach. We will closely work with these farmers associations to build the auctions around CSA practices and technologies, as well as insurance product features, that the farmers associations think will be promising.

Next-user #3
1-2 state government agriculture departments
Knowledge, attitude, skills and practice changes expected in next-user: Improved knowledge and awareness of how climate-smart insurance can potentially benefit farmers in their state, and an increased willingness to build in climate-smart insurance features in their existing subsidized weather-related agricultural insurance products.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: We will share the knowledge and build awareness through meetings with key government stakeholders. This will be done in close coordination with the CCAFS regional office and other CCAFS activities in the region. Moreover, stakeholders from the agriculture departments will receive CCAFS and/or IFPRI policy briefs highlighting the main findings.

Partners contributing to this deliverable
Partner #1 (Responsible): Robles, Miguel <m.robles@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Kramer, Berber <B.Kramer@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #2

Main Information	
Title: Capacity on offering climate-smart insurance	
MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners	
Main Type: Capacity	**Sub Type:** Capacity
Year of expected completion: 2016	
Status: Cancelled	**Justification for cancelling the deliverable:** We are cancelling this deliverable due to huge budget cut for 2016

Next-user
Financial institutions and agro-advisories
Knowledge, attitude, skills and practice changes expected in next-user: We expect to increase capacity among financial institutions and agro-advisories on how to design and offer climate-smart insurance. It is important to build their capacity in identifying the most promising climate-smart insurance products. Capacity will be measured in 3 dimensions.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Our partners will be engaged throughout the project, enhancing their capacity to identify the most promising climate-smart insurance products. Other financial institutions and agro-advisories, with whom we do not partner from the start, will be reached through e.g. participation in our workshops and/or publications in specialized media.

Partners contributing to this deliverable
Partner #1 (Responsible): Robles, Miguel <m.robles@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Kramer, Berber <B.Kramer@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>

Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #3

Main Information	
Title: Field experiments on bundling index insurance with climate-smart agriculture	
MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2016	
Status: On-going	**Justification for cancelling the deliverable:** Field experiments are planned to take place in second half 2016

Next-user #1
Insurance Providers
Knowledge, attitude, skills and practice changes expected in next-user: The report on the pilot implementation is expected to improve insurance providers' knowledge on the factors driving farmers' demand for climate-smart insurance, and how to enhance demand. Moreover, we expect to increase their interest in offering such insurance products and later their participation in a large-scale public-private partnership.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: The insurance provider that we partner with will be engaged from the start of the project, including the implementation of the activity that leads to this report, and the report development itself. Other insurance providers will be reached through knowledge sharing in for instance workshops and conferences.

Next-user #2
Agro-advisory
Knowledge, attitude, skills and practice changes expected in next-user: The report on the pilot implementation is seen as a way to increase agro-advisories' knowledge on how insurance can serve as a business model to provide agro-advisory services and to promote CSA practices and technologies. This will enhance their willingness to participate in the aforementioned public-private partnership.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: The agro-advisories that we partner with will be engaged from the start of the project, including the implementation of the activity that leads to this report, and the report development itself. Other agro-advisories will be reached through knowledge sharing in for instance workshops and conferences.

Partners contributing to this deliverable
Partner #1 (Responsible): Robles, Miguel <m.robles@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Kramer, Berber <B.Kramer@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>

Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #4

Main Information	
Title: Workshop for policy-makers	
MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners	
Main Type: Workshops	**Sub Type:** Workshop
Year of expected completion: 2016	
Status: On-going	**Justification for cancelling the deliverable:** This is planned to take place by the end of 2016

Next-user
Donors and state governments
Knowledge, attitude, skills and practice changes expected in next-user: Research outputs will be used in large-scale climate-insurance programs. For this we work with donors and/or state governments. After providing rigorous evidence of the impact that weather insurance products can have we expect a larger commitment of local and national government to further develop and scale up weather insurance products.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: In addition to giving access to government authorities to the impact report a specific policy brief summarizing project findings and putting forward a proposed new approach to weather risk management building on complementarity with climate smart agriculture will be develop and disseminated.

Partners contributing to this deliverable
Partner #1 (Responsible): Robles, Miguel <m.robles@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Kramer, Berber <B.Kramer@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Submitted on 2016-03-04 at 04:15 UTC

Submitted on 2016-03-04 at 04:15 UTC

5.3 Summary on next-users

Next user #1
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: During first year (2015) there is no next user yet, given the nature of the project. First year is an early stage in the process of designing CSI insurance products
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: Doesn't apply
Reported deliverables serve as evidence towards this achieved change: Doesn't apply
Lessons and implications for the next planning cycle: Doesn't apply

5.4 Project highlights

6. Activities

Activity #1	
Title: Activity 2 – Consolidating the implementations of CSI: Small scale pilot experiments on take-up	
Description: After assessing the theoretical potential demand for various weather-related agricultural insurance products that incentivize wide-scale adoption of CSA practices and technologies, the next step is to pilot this product and assess demand using experimental auctions and/or field experiments. As part of this activity, a local financial institution(s) will offer the product and farmers in randomly selected target areas will have the chance to purchase partial or full coverage. IFPRI will play a leading role in developing and conducting experimental auctions and/or field experiments to gather evidence on the demand for and profitability of climate-smart insurance. The idea behind these experimental auctions and/or field experiments will be to assess how different interventions affect demand, and through which channels these effects occur. These experiments will further enrich the theoretical framework developed and calibrated as part of the first activity. The scale of the pilot will be aligned with the financial institution's capacity.	
Start date (dd-MM-yyyy): 01-07-2015	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Kramer, Berber <B.Kramer@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** Field experiments will take place in the second half of 2016

Activity #2	
Title: Activity 1 - Designing a climate-smart insurance portfolio: Theory-driven product development	
Description: The aim of this first activity is to build a portfolio of climate-smart insurance products. These products will be well-founded by economic theory. Our conceptual framework will be calibrated using available historical weather and yield data, crop models. Experimental auctions will serve to test the theory's predictions and re-calibrate parameters. As building blocks of our conceptual framework, we will consider the critical weather risks and weather indices in selected study areas, and conditions to trigger payments, climate smart agriculture technologies relevant in selected study areas, potential complementarities between CSA and index insurance and potential incentive mechanisms towards the adoption of CSA practices and technologies that can be part of insurance contracts. Once these have been identified, we build and calibrate the theoretical model with existing data, and, to fill in missing parameters and test the predictions from our theory, organize experimental auctions.	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Kramer, Berber <B.Kramer@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** Conceptual framework is under development. Data to calibrate and design insurance products has been collected in 2015 and will continue in 2016

Activity #3
Title: Activity 3 – Reaching scale: Participatory product development and targeted communications.

Description: Activity description: Due to budget reductions this activity doesn't receive W1/W2 funding, now is fully funded by a BILATERAL project and as such its scale has been reduced. This activity is implemented to ensure that the evidence generated will be used by our next users, i.e. state governments, insurance providers, agro-advisories, farmers associations, and specialized media. Potential sub-activities include: i) Inception / planning meeting with partners to engage them so they have ownership of the project ii) Focus group discussions with farmers and key experts from ago-advisories and financial institution to gather information on weather risks and feasible climate-smart agricultural practices iii) Field visits / workshops with participation of partners and key stakeholders iv) Policy workshop to highlight the findings and reach out to donors and policy-makers aiming at future scaling up. We will complement these events with outputs like policy briefs, a website and blogs, and/or videos.

Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Kramer, Berber <B.Kramer@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** in 2015 we conducted field visits with partners, we started the implementation on focus group discussions in Haryana and Punjab and we had inception and planning meetings with partners

Activity #4
Title: (BILATERAL) CSI India: Enhancing farmers' adaptive capacity by developing CSI - India Food Security Portal
Description: The India Food Security Portal (IFSP) project combines the global factors influencing India's food security and the in-country initiatives aimed at reducing food insecurity within India. The goal of the India FSP is to inform the policy making process and ensure that food security-relevant policy processes at the national- and state-levels in India are more effective at addressing food insecurity. As part of the the broad set of activities supported by the India Food Security Port with impact on India's food security the project supports insurance activities and risk coping strategies in response to climate change. In particular, one activity the IFSP will support is CCASF's "CSI India: Enhancing farmers' adaptive capacity by developing Climate-Smart Insurance for weather risk" project. The aim is to document and to upload to the FS portal all results and evidence generated by all components of this CCAFS' project

Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-01-2016
Leader: Robles, Miguel <m.robles@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** This is a bilateral project. in 2016 our project will contribute to the India Food Security Portal providing specific outputs

Lessons regarding your project activities and possible implications for the coming planning cycle: Survey data collected and focus group discussions inform us that there is potential demand for insurance products and climate smart technologies although it is not clear for farmers how they can complement each other. in 2016 we will work on communication strategies to help disseminate better how insurance and climate smart technologies can potentially complement each other.

7. Leverages

<Not defined>

Submitted on 2016-03-03 at 10:35 UTC

Title: IFPRI Landscape Approach to Climate Change Mitigation in Agriculture (LACCMA)

Start date (dd-MM-yyyy)	01-01-2015	**End date (dd-MM-yyyy)**	31-12-2018
Management liaison	RP SEA - South East Asia Region	**Mgmt. liaison contact**	Tan Yen, Bui <y.bui@irri.org>
Lead organization	IFPRI - International Food Policy Research Institute - India	**Project leader**	De Pinto, Alex <a.depinto@cgiar.org>
Project type	CCAFS COFUNDED	**Detailed project workplan**	<Not defined>

Project is working on

Flaship(s)	Region(s)
FP3: Low Emissions Agricultural Development	RP SEA: South East Asia

Bilateral project(s) contributing to this project
232 - Agricultural Risk Policy and Climate Change

Summary

Land-based climate change mitigation research has commonly focused on relatively small scale activities, but in order to provide guidance for large-scale investment and policy planning, better information is needed about the inter-relationships among landscape features, socio-ecological conditions, external interventions, local institutions, and their combined effect on mitigation outcomes.

In our project we plan to assess the viability of an optimal landscape against the economic costs and benefits that could act as catalysts or constraints and with respect to exogenous forces such as economic and climatic changes. With this purpose in mind, the engagement with local stakeholders is an integral part of the modeling component of the project because it only though a direct engagement with them that constraints and incentives can be determined. The information derived from interaction with stakeholders feeds iteratively into the model as the modeling exercise progresses through the various development phases.

2. Partners

Partner #1 (Leader)

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Project Leader	De Pinto, Alex <a.depinto@cgiar.org>	Activity 2014-227 *Leader*. Analyze, quantify, and evaluate adoption of climate-smart practices at landscape scale; (b) identify determinants of trajectories resulting in climate-smart landscapes; (c) undertake ex ante comparisons of locally optimized climate-smart trajectories with production and land use outcomes determined by global/external forces; and (d) analyze features of landscape components which deliver climate-smart benefits (mitigation, resilience/adaptation, food security) to test potential for specialization and synergies.
Partner	Meinzen-Dick, Ruth <r.meinzen-dick@cgiar.org>	Activity 2014-229 *Partner*. Activity 2014-230 *Partner*. Analysis and mapping of the governance structures, institutions, and collective action groups capable of facilitating the adoption of mitigation practices at landscape scale. Iterative engagement process with decision tool users to adapt it for their needs and strengthen capacity to use it, including addressing landscape approaches in NAMAS.

Partner #2

Institution: NIAPP - National Institute of Agricultural Planning and Projection

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions

Partner	Lan, Vu Cong <htqt-niapp@hn.vnn.vn>	Activity 2014-227 *Partner*. Activity 2014-229 *Partner*. Activity 2014-230 *Leader*. Active support by the involved stakeholders of the government plans for emission reduction is a necessity for the success of the plan and its sustainability. Modeling results and the scenarios generated with the contribution of the engaged stakeholders will be presented, analyzed and evaluated with the relevant institutions: MARD, MONRE, Agricultural and Environmental Provincial ministries DARD and DONRE; District People's Committee (Divisions of Agriculture and Rural Development, Natural Resources and Environment); Unions of Women, Farmers and Youth, NGOs (e.g. (OXFAM, SNV and CODESPA).

Partner #3

Institution: Institute for Agricultural Environment

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	VAN TRINH, MAI <maivantrinh@gmail.com>	Activity 2014-227 *Partner*. Activity 2014-229 *Partner*. Activity 2014-230 *Partner*. Active support by the involved stakeholders of the government plans for emission reduction is a necessity for the success of the plan and its sustainability. This partner will contribute to the identification of a series of economically viable low emission development pathways will be identified and presented to the stakeholders.

Partnerships overall performance over the last reporting period: The partnership worked reasonably well and most of the activities were completed as planned. Some of the relationships were strained by the budget cuts, the uncertainty in the budget, the the additional budget cut that led to the termination of of our partnership with EcoAgriculture. The Vietnamese partners have performed according to expectations and delivered according to plans.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: Budget uncertainty is not good for long-term relationships.

3. Locations

Project level	Latitude	Longitude	Name
District	20.3619	20.3619	Yen Binh
District	18.1947	18.1947	Ky Anh

4. Outcomes

4.1 Project outcome narrative

Project outcome statement
By identifying economically viable landscape development trajectories and by promoting a collaborative process that builds on existing experience of the multistakeholder platforms in the LPFN Working Groups and the existing network of partners and collaborators connected with IAE and NIAPP, the project will facilitate the implementation of the government mitigation plans.

Ministries such as MARD and MONRE, the Agricultural and Environmental Provincial ministries DARD and DONRE, and District People's Committee (Divisions of Agriculture and Rural Development, Natural Resources and Environment) are expected to use the information generated by the project in their implementation plans. Furthermore, the direct engagement with local stakeholders (e.g. Unions of Women, Farmers and Youth, NGOs such as OXFAM, SNV and CODESPA) will significantly increase the sustainable implementation of the government plan .

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Annual progress towards outcome (end of 2015): During the first year the main outcome of the project will be the creation of a modeling framework that analyzes, quantifies, and evaluate adoption of climate-smart practices at landscape scale and the ex ante comparisons of locally optimized climate-smart trajectories with production and land use outcomes determined by global/external forces. Furthermore, a mapping of the the governance structures, institutions, and collective actions groups capable of facilitating the adoption of CSA and adaptation planning at landscape scale will be undertaken and engagement with them initiated..

Annual progress towards project outcome in the current reporting cycle (2015): The a mapping of the the governance structures, institutions, and collective actions groups capable of facilitating the adoption of CSA and adaptation planning at landscape scale will be undertaken and initial engagement was completed in one district. The budget cuts forced us to undertake this activity in only one district. A first version of the modeling framework that quantifies and evaluate alternative development trajectories is completed for the most. We are still working on the inclusion of the stakeholder mapping exercise in the modeling.
Communication and engagement activities have contributed to achieving your Project outcomes: Communication was essential and generally good.
Evidence documents of progress towards outcomes: LACCMA Netmap exercise_Draft.docx

Annual progress towards outcome (end of 2016): The mapping of the the governance structures, institutions, and collective actions groups capable of facilitating the adoption of CSA. The modeling framework to analyze mitigation options at the landscape scale will be completed

All the partners and stakeholders (i.e. ministry staff from MARD, MONRE; Agricultural and Environmental Provincial ministries DARD and DONRE; District People's Committee; Divisions of Agriculture and Rural Development, Natural Resources and Environment; Unions of Women, Farmers and Youth) will have been repeatedly engaged.

Annual progress towards outcome (end of 2017): By year 2017 we expect to be capable to utilize in the modelling and in the interactions with stakeholders the tools to account for gender differentiation in the decision-making processes so that low emission development trajectories can be properly determined. the process of modeling and development of options to meet the government goals will have been been developed and the close collaboration with stakeholders is expected to have promoted increased trust and understanding of the government goals.

Annual progress towards outcome (end of 2018): Methods to facilitate the implementation of select priorities to meet the goals stated in the 20/20/20 plan and Green Growth plan and identified in Decision N0403/QD-TTg (1. Raising awareness and involving wide participation of all the people in the Green Growth Strategy. 2. Synthesize and disseminate best practices. 3. Review and recommend for revision of sectoral development master plans. 4. Develop actions against land degradation and sustainably efficient use of land resources.) will have been identified and disseminated.

Lessons regarding your Theory of Change and implications for the coming planning cycle; e.g. how have your assumptions changed, or do you have stronger evidence for them: <Not defined>

4.2 Contribution to CCAFS Outcomes

RP SEA - Outcome 2019: Public sector institutions, innovate, plan, invest, regulate/reform/enforce laws and provide incentives for understanding, accessing and implementing low-emission/CSA technologies appropriate for local contexts through multi-stakeholder consultation.

Indicator #1: FP3 Indicator: # of low emissions plans developed that have significant mitigation potential for 2025, i.e. will contribute to at least 5% GHG reduction or reach at least 10,000 farmers, including at least 10% women.

2019	
Target value: Activity 2014-227: 2Activity 2014-229: 2Activity 2014-230: 2	**Cumulative target to date:** Cannot be Calculated

Target narrative: Activity 2014-227: The implementation of two of the most important Vietnamese mitigation plans (20/20/20 plan, Green Growth plan) will greatly benefit from the outputs of this project. These two plans have substantial and ambitious targets which present serious implementation challenges. By providing information regarding economically viable development trajectories
Activity 2014-229: The active support by the involved stakeholders of the government plans for emission reduction is a necessity for the success of the plan and its sustainability. We target specifically the implementation and achievement of the 20/20/20 and green growth plans. Relevant stakeholders will be identified among an already existing network of contacts (ministry staff from MARD, MONRE; Agricultural and Environmental Provincial ministries DARD and DONRE; District People's Committee; Divisions of Agriculture and Rural Development, Natural Resources and Environment; Unions of Women, Farmers and Youth; and NGOs such as OXFAM, SNV and CODESPA). Stakeholders will be engaged so that their preferences, priorities, and constrains can be properly recorded and factored in the landscape modeling. Identification and active engagement is necessary to determine manageable landscape boundaries. Furthermore, the iterative engagement process will allow stakeholders' to actively contribute to the information and the data included in the models and the scenarios created. This is expected to promote trust, understanding of the government goals but also increased participation of smaller parties in the definition of achievable goals.
Activity 2014-230: Vietnam Prime Minister's Decision N0403/QD-TTg identifies a series of actions for the period 2014 – 2020 to achieve the established mitigation goals (i.e. 20/20/20 plan, Green Growth plan). We identified four priority actions on which we can intervene: 1) Raising awareness and involving wide participation of all the people in the Viet Nam's Green Growth Strategy (VGGS) implementation. 2) Formulate local GGAP in some provinces and cities. Synthesize and disseminate best practices. 3) Review and recommend for revision of sectoral development master plans under the light of sustainable development and formulate policy framework as well as GGAP for the natural resources and environment in the period 2014-2020. 4) Develop actions against land degradation and sustainably efficient use of land resources. This activity contributes to the pursue of the listed priorities by promoting a collaborative process that builds on existing experience of the multistakeholder platforms in the LPFN Working Groups. The experience will be used in the existing network of partners and collaborators connected with IAE and NIAPP. Organized and repeated meetings with targeted stakeholders to present low-carbon development options are expected to increase participation, involvement and acceptance of the government mitigation goals. NIAPP and IAE have direct connections with the Ministry staff responsible of crafting Green Growth strategies, NAMAs, and other national policies, and this will make it highly likely that the next round of policy documents will benefit from the evidence-based information on the efficient and economically viable use of landscapes. At the same time, the engagement platform for stakeholder interaction created by this project will provide a concrete opportunity for implementing the government mitigation plans.

The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>

2015		
Target value: 5	**Cumulative target to date:** 5	**Target achieved:** 0.0

Target narrative: <Not defined>

Narrative for your achieved targets, including evidence: none achieved

2015
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: none

2016	
Target value: 0	**Cumulative target to date:** 5
Target narrative: none	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: none	

2014		
Target value: <Not defined>	**Cumulative target to date:** 0	**Target achieved:** <Not defined>
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: <Not defined>		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>		

Indicator #2: FP3 Indicator: # millions of hectares targeted by research-informed initiatives for scaling up low-emissions agriculture and preventing deforestation

2019	
Target value: <Not defined>	**Cumulative target to date:** 50000
Target narrative: <Not defined>	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>	

2015		
Target value: 0	**Cumulative target to date:** 0	**Target achieved:** 0.0
Target narrative: <Not defined>		

2015
Narrative for your achieved targets, including evidence: none
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: none

2016	
Target value: 50000	**Cumulative target to date:** 50000
Target narrative: For the Ha Tinh province the project output will provide viable plans for managing the land in the two provinces under consideration in ways that promote economic growth and do not increase GHG emissions compared to the baseline. The baseline emissions are based on a plausible development of each province based on domestic growth plans and exogenous economic forces generated by prices changes and demand for food products.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: We do not target gender issues in this project although it is possible that we will learn if gender is a barrier in the adoption favorable practices.	

2014		
Target value: <Not defined>	**Cumulative target to date:** 0	**Target achieved:** <Not defined>
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: <Not defined>		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>		

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways: <Not defined>

Collaborating with other CRPs: <Not defined>

4.4 Outcome case studies

There is not an Outcome Case Study added.

5. Project outputs

5.1 Overview by MOGs

Major Output groups - 2019

FP3 - MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Brief bullet points of your expected annual 2019 contribution towards the selected MOG
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Major Output groups - 2014

FP3 - MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Brief bullet points of your expected annual 2014 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2014 contribution towards the selected MOG:
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2014 outputs:
<Not defined>

Major Output groups - 2015

FP3 - MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2015 contribution towards the selected MOG:
The netmap analysis of major stakeholders performed in the Ha-Tinh province tells us the power structure structure, flow of information, and relationships among the people who have control over the landscape. This analysis gives an insight into whose support is needed to optimally manage the landscape.

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2015 outputs:
The analysis has only marginally touched the gender and social inclusion issue. We might be able to expand in 2016.

Major Output groups - 2016

FP3 - MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Brief bullet points of your expected annual 2016 contribution towards the selected MOG
For the Ha Tinh province, the project will provide viable plans for managing the land in ways that promote economic growth and do not increase GHG emissions compared to the baseline.

Brief plan of the gender and social inclusion dimension of the expected annual output
Stakeholders potentially in charge of managing the landscape include the Unions of Women, and Farmers and Youth, It might be possible that we will gain some insights into how gender issues constitute barriers to low-carbon development.

Gender is not the focus on this project.

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: <Not defined>

5.2 Deliverables

Deliverable #1

Main Information	
Title: Climate-smart landscapes. Can mitigation potential be unleashed by taking a broader approach?	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Peer reviewed Publications	**Sub Type:** Peer-reviewed journal articles
Year of expected completion: 2016	
Status: <Not defined>	

Next-user #1
Policy-makers working on climate change mittigation and climate smart agriculture and scholars
Knowledge, attitude, skills and practice changes expected in next-user: Will increase capacity to analyze policy options and opportunities by working beyond the farm and plot level.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: IFPRI communication will disseminate widely. Reports will be posted and disseminated using dedicated IFPRI climate change web site. At least one presentation at a conference

Next-user #2
Development professionals at USAID, World Bank, FAO and IFAD working on climate smart agriculture
Knowledge, attitude, skills and practice changes expected in next-user: Will change the design of some mitigation projects, strategies, and targets.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing event in Washington DC, blog posts and dissemination through social media

Partners contributing to this deliverable
Partner #1 (Responsible): De Pinto, Alex <a.depinto@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>

What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #2

Main Information	
Title: CSA landscapes and stakeholders' preferences. Accounting for differences in priorities to achieve a sustainable adoption	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Policy briefs - Briefing paper
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Development professionals at USAID, World Bank, FAO and IFAD working on climate smart agriculture

Knowledge, attitude, skills and practice changes expected in next-user: Will increase capacity to analyze policy options, opportunities, and attainable goals by working with stakeholders and will increase the likelihood of devising sustainable policies by negotiating acceptable outcomes with stakeholders.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing event in Washington DC, blog posts and dissemination through social media

Partners contributing to this deliverable

Partner #1 (Responsible): Meinzen-Dick, Ruth <r.meinzen-dick@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking

Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing

Deliverable files
<Not defined>

Submitted on 2016-03-03 at 10:35 UTC

Deliverable #3

Main Information	
Title: The potential of working at the landscape level in Vietnam	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2017	
Status: <Not defined>	

Next-user
Policy makers in Vietnam
Knowledge, attitude, skills and practice changes expected in next-user: Given the current plan and targets for mitigation in agriculture and other land uses, this deliverable will demonstrate the advantages and disadvantages of working beyond the farm level. It will also showcase how the proposed modeling approach can be used to negotiate attainable mitigation goals among stakeholders.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing events engaging staff from Ministries (MARD, MONRE) from Agricultural and Environmental Provincial ministries (DARD and DONRE); District People's Committee (Divisions of Agriculture and Rural Development, Natural Resources and Environment); Unions of Women, Farmers and Youth; participating NGOs and agribusinesses seeking to reduce commodity sourcing risks.

Partners contributing to this deliverable
Partner #1 (Responsible): Lan, Vu Cong <htqt-niapp@hn.vnn.vn>, NIAPP - National Institute of Agricultural Planning and Projection

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #4

Main Information	
Title: Identifying strategies for viable low-carbon landscape development in Vietnam	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2018	
Status: <Not defined>	

Next-user
National and Local Government officials; District People's Committee
Knowledge, attitude, skills and practice changes expected in next-user: This deliverable will help increasing the awareness of government officials regarding the attainability of the established government goals in terms of development ad reduction of emissions.The knowledge base for land use planning, as well as the capacity to negotiate goals across stakeholders will be enhanced.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Iterative engagement process with stakeholders' to disseminate results and form alternative scenarios. Series of presentations to targeted officials.

Partners contributing to this deliverable
Partner #1 (Responsible): VAN TRINH, MAI <maivantrinh@gmail.com>, Institute for Agricultural Environment
Partner #2: Lan, Vu Cong <htqt-niapp@hn.vnn.vn>, NIAPP - National Institute of Agricultural Planning and Projection

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #5

Main Information

Submitted on 2016-03-03 at 10:35 UTC

Title: Opportunities for increasing resilience in climate change mitigation practices. Working cooperatively across landscapes.

MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Main Type: Communication Products and Multimedia	**Sub Type:** Presentations

Year of expected completion: 2018

Status: <Not defined>

Next-user

District People's Committee ; Unions of Women, Farmers and Youth, NGOs (OXFAM, SNV and CODESPA).

Knowledge, attitude, skills and practice changes expected in next-user: This deliverable will help increasing the coordination capacity and awareness of farmers, farmers' organizations and NGOs with respect to incorporating climate change mitigation practices in the existing production systems. The knowledge base for planning actions as well as the capacity to negotiate goals across stakeholders will be expanded.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Iterative meetings and outreach events with stakeholder representatives.

Partners contributing to this deliverable

Partner #1 (Responsible): Lan, Vu Cong <htqt-niapp@hn.vnn.vn>, NIAPP - National Institute of Agricultural Planning and Projection

Partner #2: VAN TRINH, MAI <maivantrinh@gmail.com>, Institute for Agricultural Environment

Deliverable Ranking

Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #6

Main Information	
Title: Viable low-carbon landscape development in Vietnam	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Policy briefs - Briefing paper
Year of expected completion: 2018	
Status: <Not defined>	

Next-user
Government officials in the ministries of agriculture and environment and national planning department
Knowledge, attitude, skills and practice changes expected in next-user: This deliverable will help increasing the awareness of government officials regarding the attainability of the established government goals with respect to local actors and agencies. The knowledge base for evaluating the feasibility of current plans will be increased and negotiations with local communities facilitated.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Series of presentations to targeted officials.

Partners contributing to this deliverable
Partner #1 (Responsible): De Pinto, Alex <a.depinto@cgiar.org>, IFPRI - International Food Policy Research Institute

Partner #2: Lan, Vu Cong <htqt-niapp@hn.vnn.vn>, NIAPP - National Institute of Agricultural Planning and Projection
Partner #3: VAN TRINH, MAI <maivantrinh@gmail.com>, Institute for Agricultural Environment

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #7

Main Information
Title: Developing climate smart landscapes through stakeholder engagement.
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives

Main Type: Workshops	**Sub Type:** Workshop
Year of expected completion: 2016	
Status: <Not defined>	

Next-user

National and Local Government officials ; District People's Committee

Knowledge, attitude, skills and practice changes expected in next-user: We will help raise awareness of climate change mitigation in stakeholders not normally involved in the development of mitigation targets and will help them in negotiating viable targets with government agencies. It is expected that the parties engaged will substantially contribute to the overcoming implementation barriers.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Series of meetings in workshop format and outreach events with stakeholder representatives.

Partners contributing to this deliverable

Partner #1 (Responsible): Lan, Vu Cong <htqt-niapp@hn.vnn.vn>, NIAPP - National Institute of Agricultural Planning and Projection

Deliverable Ranking

Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #8

Main Information	
Title: Engaging multiple stakeholders for the development of climate smart landscapes. Methods and lessons learned.	
MOG # 2: Decision support for identifying and prioritizing low-emissions CSA options, including synergies and tradeoffs with development objectives	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Development professionals at USAID, World Bank, FAO and IFAD working on climate smart agriculture
Knowledge, attitude, skills and practice changes expected in next-user: Deliverable will help increase experts and practitioners capacity to involve stakeholders with different priorities and preferences in climate change mitigation options and plans. It will also help in identifying the best ways to use modeling results and scientific evidence in the negotiation of mitigation targets among
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing event in Washington DC and Vietnam, blog posts and dissemination through social media

Partners contributing to this deliverable
Partner #1 (Responsible): Meinzen-Dick, Ruth <r.meinzen-dick@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Lan, Vu Cong <htqt-niapp@hn.vnn.vn>, NIAPP - National Institute of Agricultural Planning and Projection

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>

Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing

Deliverable files
<Not defined>

5.3 Summary on next-users

Next user #1
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: At this stage no next user were truly involved ans the next user were only only the object of the analysis. Next users will be engaged in 2016.
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: none yet
Reported deliverables serve as evidence towards this achieved change: none yet
Lessons and implications for the next planning cycle: none yet

5.4 Project highlights

6. Activities

Activity #1	
Title: Landscape modeling and optimal trajectories	
Description: Analyze, quantify, and evaluate adoption of climate-smart practices at landscape scale; (b) identify determinants of trajectories resulting in climate-smart landscapes; (c) undertake ex ante comparisons of locally optimized climate-smart trajectories with production and land use outcomes determined by global/external forces; and (d) analyze features of landscape components which deliver climate-smart benefits (mitigation, resilience/adaptation, food security) to test potential for specialization and synergies. For this activity we also have identified specific synergies with the ILRI-led project (2014-19) and it is expected that we will coordinate with ILRI work on target sites, data sharing and joint workshops.Specifically in collaboration with ILRI we have identified the following areas of collaboration: 1) Integration of GHG modeling efforts; 2) Application of the developed economic analytic tools to both projects; 3) Use of common scenarios in both projects to ensure results comparison and achieve robustness in the results; 4) Data integration and common GIS data bases.	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 01-01-2018
Leader: De Pinto, Alex <a.depinto@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** Framework of analysis of current trajectories has been built. We are working on incorporating in the modeling the insights provided by the stakeholder analysis.

Activity #2	
Title: Governance, institutions, and collective actions for landscapes	
Description: Analysis and mapping of the governance structures, institutions, and collective action groups capable of facilitating the adoption of mitigation practices at landscape scale. Iterative engagement process with decision tool users to adapt it for their needs and strengthen capacity to use it, including addressing landscape approaches in NAMAS. Policies and programs intended to promote agricultural mitigation that do not understand and harness multi-scale systems of governance and stakeholder influence will be less effective at overcoming inertia and other barriers and less likely to achieve widespread adoption of mitigation practices.	
Start date (dd-MM-yyyy): 01-06-2015	**End date (dd-MM-yyyy):** 10-04-2018
Leader: Meinzen-Dick, Ruth <r.meinzen-dick@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: Complete	

Activity #3
Title: Stakeholder engagement, capacity strengthening, and identification of viable low-carbon landscape development trajectories

Description: Active support by the involved stakeholders of the government plans for emission reduction is a necessity for the success of the plan and its sustainability. Modeling results and the scenarios generated with the contribution of the engaged stakeholders will be presented, analyzed and evaluated with the relevant institutions: MARD, MONRE, Agricultural and Environmental Provincial ministries DARD and DONRE; District People's Committee (Divisions of Agriculture and Rural Development, Natural Resources and Environment); Unions of Women, Farmers and Youth, NGOs (e.g. (OXFAM, SNV and CODESPA). A series of economically viable low emission development pathways will be identified and presented to the stakeholders. Emphasis will be given to issues of equity and distribution of benefits across stakeholders.	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-12-2018
Leader: Lan, Vu Cong <htqt-niapp@hn.vnn.vn>, NIAPP - National Institute of Agricultural Planning and Projection	
Status: On-going	**Justification:** Stakeholders and major actors were identified and made aware of our project and goals. Actual involvement of stakeholders in the identification of viable development trajectories will be carried out in 2016 and 2017

Lessons regarding your project activities and possible implications for the coming planning cycle: Budget uncertainty slows down progress of project in ways that are detrimental to fruitful collaborations.

Submitted on 2016-03-03 at 10:35 UTC

7. Leverages

<Not defined>

Submitted on 2016-03-03 at 16:24 UTC

Title: Enhancement of modeling tools (IMPACT) and targeted policy engagement.

Start date (dd-MM-yyyy)	01-01-2012	**End date (dd-MM-yyyy)**	31-12-2016
Management liaison	F4 - Flagship 4	**Mgmt. liaison contact**	Thornton, Philip <p.thornton@cgiar.org>
Lead organization	IFPRI - International Food Policy Research Institute - United States	**Project leader**	Rosegrant, Mark <m.rosegrant@cgiar.org>
Project type	CCAFS COFUNDED	**Detailed project workplan**	<Not defined>

Project is working on

Flaship(s)	Region(s)
FP4: Policies and Institutions for Climate-Resilient Food Systems	Global: Global

Bilateral project(s) contributing to this project
145 - Enhancement of modeling tools (IMPACT), to handle variability and land-use, for improved analysis of climate change impacts.

Summary

The agricultural sector faces growing stresses from climate change and from population and income growth. These shocks threaten sustainable food security over the long term.

To analyze long-run effects of climate change on global agriculture, IFPRI has developed a suite of linked economic, water, and crop models centered around the IMPACT economic model of global agriculture. This system of models allows to analyze long-term scenarios of biophysical and socioeconomic changes, and allows for varied and in-depth-analysis on a variety of issues of interest to policy-makers.

During CCAFS-Phase1, several modules of IMPACT were coded to improve modeling of promising technologies. This largely coincided with the Phase1 of the Global-Futures project, a CGIAR multicenter-multidisciplinary program.

In its continuation, this project aims to further enhance the IMPACT suite of models, towards improved analysis of climate-change impacts, by handling variability and land-use, in combination with more targeted policy-engagement, under the Global-Futures and Foresight

Program.

2. Partners

Partner #1 (Leader)

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Project Leader	Rosegrant, Mark <m.rosegrant@cgiar.org>	The economic model of global agriculture (IMPACT) is the model at the core of the foresight scenario analysis. The model is developed and maintained by a team working at IFPRI.
Project Coordinator	Cenacchi, Nicola <N.Cenacchi@cgiar.org>	details

Partner #2

Institution: PIK - Potsdam-Institut für Klimafolgenforschung

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	Lotze-Campen, Hermann <lotze-campen@pik-potsdam.de>	Activity 2014-343 *Partner*.

Partner #3

Institution: GTAP - Purdue University- Global Trade Analysis Project

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	Van Der Mensbrugghe, Dominique <vandermd@purdue.edu>	Activity 2014-343 *Partner*.

Partner #4

Institution: LEI - Stichting Dienst Landbouwkundig Onderzoek

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	Van Meijl, Hans <Hans.vanMeijl@wur.nl>	Activity 2014-343 *Partner*.

Partner #5

Institution: OECD - Organization of Economic Cooperation and Development

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	Von Lampe, Martin <martin.vonlampe@oecd.org>	Activity 2014-343 *Partner*.

Partner #6

Institution: CIAT - Centro Internacional de Agricultura Tropical

Contacts

Type	Contact	Responsibilities and contributions
Partner	Prager, Steven <S.Prager@cgiar.org>	Activity 2014-343 *Partner*.

Partner #7

Institution: CIMMYT - International Maize and Wheat Improvement Center

Contacts

Type	Contact	Responsibilities and contributions
Partner	KRUSEMAN, Gideon <g.kruseman@cgiar.org>	Activity 2014-343 *Partner*.

Partner #8

Institution: CIP - Centro Internacional de la Papa

Contacts

Type	Contact	Responsibilities and contributions
Partner	Hareau, Guy <G.Hareau@cgiar.org>	Activity 2014-343 *Partner*.

Partner #9

Institution: ICARDA - International Center for Agricultural Research in the Dry Areas

Contacts

Type	Contact	Responsibilities and contributions
Partner	Telleria, Roberto <R.Telleria@cgiar.org>	Activity 2014-343 *Partner*.

Partner #10

Institution: ICRAF - World Agroforestry Centre

Contacts

Type	Contact	Responsibilities and contributions
Partner	Marshall, Michael <m.marshall@cgiar.org>	Activity 2014-343 *Partner*.

Partner #11

Institution: ICRISAT - International Crops Research Institute for the Semi-Arid Tropics

Contacts

Type	Contact	Responsibilities and contributions
Partner	Nedumaran, Swamikannu <s.nedumaran@cgiar.org>	Activity 2014-343 *Partner*.

Partner #12

Institution: IITA - International Institute of Tropical Agriculture

Contacts

Type	Contact	Responsibilities and contributions
Partner	Alene, Arega <A.ALENE@CGIAR.ORG>	Activity 2014-343 *Partner*.

Partner #13

Institution: ILRI - International Livestock Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Partner	Enahoro, Dolapo <D.Enahoro@cgiar.org>	Activity 2014-343 *Partner*.

Partner #14

Institution: IRRI - International Rice Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Partner	Mohanty, Samarendu <s.mohanty@irri.org>	Activity 2014-343 *Partner*.

Partner #15

Institution: IWMI - International Water Management Institute

Contacts

Type	Contact	Responsibilities and contributions
Partner	Sood, Aditya <A.Sood@cgiar.org>	Activity 2014-343 *Partner*.

Partner #16

Institution: WorldFish - WorldFish

Contacts

Type	Contact	Responsibilities and contributions
Partner	Van Tran, Nhuong <N.Tran@cgiar.org>	Activity 2014-343 *Partner*.

Partner #17

Institution: UF - University of Florida

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	Jones, James <jimj@ufl.edu>	Activity 2014-343 *Partner*.

Partnerships overall performance over the last reporting period: Workflow across the participating CGIAR centers and other partners helped to strengthen the cross-disciplinary research program. CGIAR partners and their collaborators continued to contribute to the planning work, and provide key technical inputs toward improvement of the IMPACT model. Two extended team meetings held during the course of the year represented an important outreach and community building tool, and were critical both to take stock of the analyses carried out by the community, and to engage stakeholders on priorities and partnerships going ahead. We also continued our collaboration with other global economic modeling groups through AgMIP.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: The partnership between the coordinator center and partners has been significantly strengthened, also thanks to two major team meetings, one in Rome in April, the other in Washington, DC , in November. These were very useful to strategize on future proposals and potential new areas of work. The goal is for these meetings to continue and become flagship events not only for the modeling community but for economic/impact focused data and analyses for the whole Consortium.

3. Locations


Global
Mapa
Satélite
United States
México (Mexico)
Venezuela
Colombia
Perú (Peru)
Brasil (Brazil)
Bolivia
Chile
Deutschland (Germany)
France
España (Spain)
Italia (Italy)
Україна (Ukraine)
Казахстан (Kazakhstan)
Монгол Улс (Mongolia)
Türkiye (Turkey)
中国 (China)
العراق (Iraq)
ایران (Iran)
افغانستان (Afghanistan)
پاکستان (Pakistan)
India
ประเทศไทย (Thailand)
الجزائر (Algeria)
ليبيا (Libya)
مصر (Egypt)
السعودية (Saudi Arabia)
Mali
Niger
السودان (Sudan)
Ethiopia
DR Congo
Kenya
Tanzania
Angola
Namibia
Botswana
Madagasikara (Madagascar)
Indonesia
Google
Términos de uso

4. Outcomes

4.1 Project outcome narrative

Project outcome statement
A number of international organizations and national agencies have built capacity that enables them to use IMPACT (directly or through analysis of its results), as an integrated system for rigorous quantitative multi-disciplinary analysis, to better evaluate the impacts of promising future technologies on yields, production, prices, trade and consumption of key agricultural commodities in the context of climate change and other key drivers of change.

Furthermore, an established, well-connected, community of practice of biophysical scientists and economic modelers contributes further to an improved understanding of long-term challenges and opportunities in agriculture and food security at a variety of scales, and to better inform priority setting for scarce investment resources.

Institutionalization of strategic foresight analysis of plausible global futures for agriculture and food security, under alternative assumptions about population, income, technology and resources, that takes into consideration climate change, is embedded in the decision making mechanisms of the partner institutions, and the results of this analysis are used as inputs for improved decisions on policy and investment.

Annual progress towards outcome (end of 2015): Through capacity strengthening, methodological collaboration and sharing of IMPACT related results, FAO (Economic and Social Development Department), is able to better analyse the impact of climate change on agriculture and food security, by use of different policy scenarios, while in discussions with member countries in a number of processes.

Annual progress towards project outcome in the current reporting cycle (2015): Researchers from IFPRI and partner centers have collaborated in analysis of alternative futures for food and agriculture through the Global Futures and Strategic Foresight (GFSF) Program. Through use of the improved IMPACT economic model, integrated with global climate models, crop models, and water models, researchers were able to better understand the impacts of changes in population, climate, technology and other factors on yields, area, production, consumption, prices and trade of major agricultural commodities, and their implications for food security. The work was also conducted in partnership with the OECD and with FAO, and some results were published in a peer reviewed article (see attached).

Communication and engagement activities have contributed to achieving your Project outcomes: Two extended team meetings, held in April and November 2015, the side event at COP21, and an IFPRI policy seminar in October 2015 have contributed to engaging with partners and sharing data and knowledge.

Evidence documents of progress towards outcomes: Wiebe et al (2015) Climate Change impacts on agriculture in 2050.pdf

Annual progress towards outcome (end of 2016): Through methodological collaboration and sharing of IMPACT related results, OECD (Trade and Agriculture Directorate) is able to better analyse the impact of climate change on agriculture and food security, by use of different policy scenarios, while in discussions with member countries in a number of processes.

Annual progress towards outcome (end of 2017): Through policy dissemination of IMPACT related results, CGIAR Centers, donors, multilateral development banks, national and regional partners, and development practitioners are able to better analyse the impact of climate change on agriculture and food security. The use of different socio-economic and climate change scenarios will allow these actors to engage more effectively with partners in various countries and tackle issues related to climate change in agriculture.

Annual progress towards outcome (end of 2018): <Not defined>

Lessons regarding your Theory of Change and implications for the coming planning cycle; e.g. how have your assumptions changed, or do you have stronger evidence for them: In the original plan we were expecting results and outcomes in 2015 to originate mainly from our collaboration with the FAO. The expectation was also to produce outcomes mainly through collaboration with the OECD during the current year (2016). As the work progressed, we had to adjust the timing of our interactions with these partners. The collaboration with OECD was accelerated, whereas work with the FAO was delayed. Therefore, 2015 was mainly characterized by outcomes through collaboration with the OECD, while during this year (2016) we are already well placed to have outcomes through our cooperation with FAO.

4.2 Contribution to CCAFS Outcomes

FP4 - Outcome 2019: Appropriately directed institutional investment of regional/global organisations and processes (e.g. IFAD, WB, FAO, UNFCCC) based on national/regional engagement to learn about local climate smart food system priorities

Indicator #1: FP4 Indicator: # of regional/global organisations and processes that inform their equitable institutional investments in climate smart food systems using CCAFS outputs

2019	
Target value: 3	**Cumulative target to date:** 5

2019
Target narrative: Through collaboration, capacity strengthening and sharing of results, FAO, OECD and partners under CAADP are able to better; analyse the impacts of climate change on agriculture and food security, provide with plausible policy scenarios, and develop policy responses, both in regards to their own institutional investments, as well as towards a better informed dialogue among member countries. As an example, analysts in FAO (Economic and Social Development Department) and OECD (Trade and Agriculture Directorate) have in place improved data management methods and are using improved models based on IMPACT developed tools, in order to generate robust knowledge towards better informed discussions with member countries. Capacity among key organisations under CAADP process has also increased. (Note: Although the specific activity clearly focuses on modeling improvements, it is expected that progress towards these outcome targets will be made possible, through different uses of an improved IMPACT model in a number of activities under the Global Futures and Strategic Foresight Project, and through the established and broader platform of that project). Through targeted communication activities (including dissemination of a new Research Monograph, publication of a series of thematic policy briefs, and representation at key international events, including possibly the organisation of a side event at the COP-21), policy makers of partner institutions (e.g. FAO, OECD, CAADP) as well as broader policy audiences, are able to better; understand and analyse the impacts of climate change on agriculture and food security, provide with plausible policy scenarios, and develop policy responses, both in regards to their own institutional investments, as well as towards a better informed dialogue among member countries.
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>

2015		
Target value: 1	**Cumulative target to date:** 1	**Target achieved:** 1.0
Target narrative: Through collaboration on methodology, FAO (Economic and Social Development Department) will have strengthened capacity to analyze the impacts of climate change on agriculture and food security through the quantitative assessment of alternative scenarios in order to provide inputs for improved decisions on policy and investment by regional and national institutions. In addition, through engagement with CRPs, research managers in the CGIAR will have access to improved information on impacts of climate change on agriculture and food security through quantitative assessment of alternative scenarios in order to inform decision making on research investments.		
Narrative for your achieved targets, including evidence: Building on last year collaboration a new publication was released in Eurochoices, led by the OECD, and coauthored by Ada Ignaciuk of the OECD, and Daniel Mason-D'Croz and Shahnila Islam of IFPRI. The work, which highlights the challenges that climate change poses to southern Europe, shows the progress made by this partner in analyzing climate change impacts and formulate policy options. Similarly, colleagues from the Food and Agriculture Organization of the UN (FAO) contributed to a research article published in Environmental Research Letters on climate change impacts on agriculture in 2050. More details at the following URLs: http://globalfutures.cgiar.org/2015/08/20/on-going-oecd-collaboration-releases-result-in-eurochoices/ http://iopscience.iop.org/article/10.1088/1748-9326/10/8/085010/meta		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		

2015
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: Meetings with partners across the Global Futures and Strategic Foresight project have started conversations about plans for addressing gender issues through linking model results to country-level CGE models.

2016	
Target value: 1	**Cumulative target to date:** 2
Target narrative: Through collaboration on methodology and analysis, OECD (Trade and Agriculture Directorate) will have strengthened capacity to analyze the impacts of climate change on agriculture and food security through quantitative assessment of alternative scenarios in order to provide inputs for improved decisions on policy and investment by regional and national institutions. In addition, through engagement with CRPs, research managers in the CGIAR will have access to improved information on impacts of climate change on agriculture and food security through quantitative assessment of alternative scenarios in order to inform decision making on research investments.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: the model results may be used to address gender issue by linking them to country CGE models with disaggregated labor markets.	

2014		
Target value: <Not defined>	**Cumulative target to date:** 0	**Target achieved:** <Not defined>
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: <Not defined>		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>		

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways

In CCAFS, IMPACT has been used in quantification exercises throughout the regional scenario process (FP4), and is planned to be used in at least two other FP4 projects, two FP3 projects and one FP1 bilateral project (all led by IFPRI), all closely associated with targeted policy outcomes at national and regional levels. In effect an improved IMPACT model, which is a main research output of this project, will be contributing to other FP IPs.

Collaborating with other CRPs

Policies, Institutions and Markets
Description of collaboration: PIM supports similar work on scenario building and strategic foresight through the GFSF program
The achieved outcome contributions: <Not defined>

4.4 Outcome case studies

Outcome case study #1
Title: Continued collaboration with OECD shows their improved capacity to estimate and analyze climate change impacts
Outcome statement: The partnership with OECD over the use of the IMPACT model continues to lead to opportunities to engage on OECD policy discussions. The collaboration, which produced an OECD Report in 2014, has seen the OECD leading a follow up article in EuroChoices, published in 2015. This article was geared towards policy-makers in Europe and helped to increase the visibility of the work done in 2014.
Research Outputs: http://onlinelibrary.wiley.com/doi/10.1111/1746-692X.12088/full
Research Partners: Trade and Agriculture Directorate, Environment Division, OECD, Paris: Ada Ignaciuk This specific research output was also supported by the Research Program in Policies, Institutions and Markets (PIM) of the CGIAR
Activities that contributed to the outcome: Worshops, targeted training on the IMPACT model, and continuing personal communication
Non-research Partners: None. This work was mainly bilateral, through interactions between IFPRI and OECD, and building on the results of the work brought forward by IFPRI and his partner institutions listed in the Partner section.
Output Users: OECD
How the output was used: Analysis on climate-change informs OECD recommendations for investments in agriculture. Results from the Eurochoices article, and new IMPACT results, will be used to summarize the current state of knowledge on Climate-change and agriculture at an Agricultural-Ministerial-Meeting scheduled for April 2016 at the OECD. France and the US are Co-Chairs.
Evidence of the outcome: Successful collaboration with Ada Ignaciuk has led to greater legitimacy for the IMPACT system of models, especially within the OECD, leading to requests for additional collaboration. A specific request has been made to use the IMPACT model to analyze agricultural trade policies in the Philippines.
References: Ignaciuk, Mason-D'Croz and Islam. 2015: http://onlinelibrary.wiley.com/doi/10.1111/1746-692X.12088/full
The primary 2019 outcome indicator that this case study is contributing to: FP4 Indicator: # of regional/global organisations and processes that inform their equitable institutional investments in climate smart food systems using CCAFS outputs
Explanation of the link between your outcome story and the CCAFS indicators:
Year: 2015
Annexes uploaded: <Not defined>

5. Project outputs

5.1 Overview by MOGs

Major Output groups - 2019

FP4 - MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios

Brief bullet points of your expected annual 2019 contribution towards the selected MOG
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Major Output groups - 2014

FP4 - MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios

Brief bullet points of your expected annual 2014 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2014 contribution towards the selected MOG:
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2014 outputs:
<Not defined>

Major Output groups - 2015

FP4 - MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2015 contribution towards the selected MOG:
Through use of the improved IMPACT economic model, integrated with global climate models, crop models, and water models, researchers from IFPRI and partner centers were able to advance the understanding of the impacts of climate-change on food security, and thus inform policy and investments discussions within the OECD and FAO.

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2015 outputs:
the IMPACT system of models is a partial-equilibrium-model of the agricultural sector. It is not designed to produce results that reflect social conditions. However, there are plans with our partners to link the IMPACT results to CGE models, which can then provide insight into the labor market, disaggregated by gender.

Major Output groups - 2016

FP4 - MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios

Brief bullet points of your expected annual 2016 contribution towards the selected MOG
1- model results can inform decision-making and guide investments and research toward specific commodities and/or agricultural technologies and practices that improve adaptation to climate change impacts
2- results can help partners in the CGIAR,multilateral development banks, and national and regional partners, to align their activities to the Sustainable Development Goals

Brief plan of the gender and social inclusion dimension of the expected annual output
during the year we will lay the groundwork for linking model results to country level CGE's in order to be more explicit in analyzing gender implications, for instance through labor markets.

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: <Not defined>

5.2 Deliverables

Deliverable #1

Main Information	
Title: Improved IMPACT suite with added-features on "variability". Climate variability coded in the IMPACT system-of-models	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Models
Year of expected completion: 2015	
Status: Complete	

Next-user
Scientific community (AgMip partners and GFSF partners), and technical experts in partner organizations (such as FAO, OECD, CAADP)
Knowledge, attitude, skills and practice changes expected in next-user: Better understanding of climate impacts on agriculture, and vice versa, through acquired ability to use IMPACT and analyse related results, using its improved version (IMPACT 3), and with added features on variability.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: 1. A web portal that features IMPACT 3, and enables users to generate results 2. Continued training with key staff in partner organizations 3. Targeted communications outreach (Annual Strategic Foresight Conference, other related key events and conferences, blogs and other dissemination around targeted research products).

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	1
Potential for/ actual contribution to outcomes	5
Level of shared ownership (partnerships across org.)	4
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Limited Exclusivity Agreements

License adopted: <Not defined>

Dissemination Channel: other

Dissemination URL: <Not defined>

Deliverable Metadata
Description: Management of climate data coded in GAMS, for the IMPACT model.
Creator / Authors: Daniel Mason-D'Croz, Shahnila Islam
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: EN
Coverage: <Not defined>

Deliverable Data sharing
http://www.ifpri.org/publication/international-model-policy-analysis-agricultural-commodities-and-trade-impact-model-0 http://onlinelibrary.wiley.com/doi/10.1111/1746-692X.12088/full

Deliverable #2

Main Information	
Title: Research Monograph: "Climate Change, Agriculture and Water: Scenarios to 2050" (scenarios, modeling results, policy options)	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Peer reviewed Publications	**Sub Type:** Books
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Technical experts/ Policy makers in partner institutions as well as broader policy audiences.
Knowledge, attitude, skills and practice changes expected in next-user: Technical experts/ Policy makers will benefit from the results of a full matrix of scenarios reflecting multiple Shared Socioeconomic Pathways (SSPs)and Representative Concentration Pathways (RCPs), using multiple GCMs, in order to better understand the impacts of climate change on agriculture and food security, and prepare adequate policy responses.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Targeted dissemination activities; ongoing and in key international fora.

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Enahoro, Dolapo <D.Enahoro@cgiar.org>, ILRI - International Livestock Research Institute
Partner #3: Alene, Arega <A.ALENE@CGIAR.ORG>, IITA - International Institute of Tropical Agriculture
Partner #4: Nedumaran, Swamikannu <s.nedumaran@cgiar.org>, ICRISAT - International Crops Research Institute for the Semi-Arid Tropics
Partner #5: Van Tran, Nhuong <N.Tran@cgiar.org>, WorldFish - WorldFish
Partner #6: Sood, Aditya <A.Sood@cgiar.org>, IWMI - International Water Management Institute
Partner #7: Prager, Steven <S.Prager@cgiar.org>, CIAT - Centro Internacional de Agricultura Tropical
Partner #8: Telleria, Roberto <R.Telleria@cgiar.org>, ICARDA - International Center for Agricultural Research in the Dry Areas
Partner #9: KRUSEMAN, Gideon <g.kruseman@cgiar.org>, CIMMYT - International Maize and Wheat Improvement Center
Partner #10: Hareau, Guy <G.Hareau@cgiar.org>, CIP - Centro Internacional de la Papa
Partner #11: Mohanty, Samarendu <s.mohanty@irri.org>, IRRI - International Rice Research Institute
Partner #12: Marshall, Michael <m.marshall@cgiar.org>, ICRAF - World Agroforestry Centre

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #3

Main Information	
Title: COP-21 side event with AgMip partners	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Workshops	**Sub Type:** Workshop
Year of expected completion: 2015	
Status: Complete	

Next-user
Policy makers in partner institutions as well as broader policy audiences
Knowledge, attitude, skills and practice changes expected in next-user: Policy makers will benefit from the results of a full matrix of scenarios reflecting multiple Shared Socioeconomic Pathways (SSPs)and Representative Concentration Pathways (RCPs), using multiple GCMs, in order to better understand the impacts of climate change on agriculture and food security, and prepare adequate policy responses.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Communications strategy around the COP-21 side event.

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	2
Potential for/ actual contribution to outcomes	4
Level of shared ownership (partnerships across org.)	4
What is your personal perspective of the importance of this product	4

Deliverable dissemination

Open access restriction: Yes

License adopted: <Not defined>

Dissemination Channel: other

Dissemination URL: http://globalfutures.cgiar.org/2015/12/15/ifpri-and-partners-share-insights-on-climate-change-and-food-security-in-paris/

Deliverable Metadata

Description: IFPRI researchers Mark Rosegrant, Keith Wiebe and Alex de Pinto led a session climate change impacts and solutions at global, regional and country scales at the Global Landscapes Forum on the margins of COP21 in Paris in December 2015. The session drew on new research to analyze policy options that promote healthy growth of the agricultural sector and food security in a changing climate. Participants Mercedita Sombilla (Director ANRES, National Economic and Development Authority, Office of the President, Philippines), Kirit N Shelat (Executive Chairman, Indian National Council for Climate Change Sustainable Development and Public Leadership), and Rodrigo Suarez Castaño (Climate Change Director, Ministry of Environment and Sustainable Development, Colombia) also shared insights and experiences from the national level.

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing

Deliverable files
<Not defined>

Deliverable #4

Submitted on 2016-03-03 at 16:24 UTC

Main Information	
Title: Improved IMPACT suite with added-features on "variability": Data module to manage climate data from GCMs	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Databases
Year of expected completion: 2015	
Status: Complete	

Next-user
Scientific community (AgMip partners and GFSF partners), and technical experts in partner organizations (such as FAO, OECD, CAADP)
Knowledge, attitude, skills and practice changes expected in next-user: Better understanding of climate impacts on agriculture, and vice versa, through acquired ability to use IMPACT and analyse related results, using its improved version (IMPACT 3), and with added features on variability.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: 1. A web portal that features IMPACT 3, and enables users to generate results 2. Continued training with key staff in partner organizations 3. Targeted communications outreach (Annual Strategic Foresight Conference, other related key events and conferences, blogs and other dissemination around targeted research products).

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Lotze-Campen, Hermann <lotze-campen@pik-potsdam.de>, PIK - Potsdam-Institut für Klimafolgenforschung

Deliverable Ranking	
Address gender and social inclusion aspect	1
Potential for/ actual contribution to outcomes	4
Level of shared ownership (partnerships across org.)	4
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Limited Exclusivity Agreements
License adopted: <Not defined>

Dissemination Channel: other

Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
http://globalfutures.cgiar.org/2015/06/29/global-futures-and-strategic-foresight-gfsf-program-contributes-to-lloyds-study-food-system-shock-the-insurance-impacts-of-acute-disruption-to-global-food-supply/ http://www.ifpri.org/publication/international-model-policy-analysis-agricultural-commodities-and-trade-impact-model-0

Deliverable #5

Main Information	
Title: Improved IMPACT suite with added-features on "variability": Paper describing the new IMPACT-model structure and preliminary-results.	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Discussion paper
Year of expected completion: 2015	
Status: Complete	

Next-user
Scientific community (AgMip partners and GFSF partners), and technical experts in partner organizations (such as FAO, OECD, CAADP)
Knowledge, attitude, skills and practice changes expected in next-user: Better understanding of climate impacts on agriculture, and vice versa, through acquired ability to use IMPACT and analyse related results, using its improved version (IMPACT 3), and with added features on variability.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: 1. A web portal that features IMPACT 3, and enables users to generate results
2. Continued training with key staff in partner organizations
3. Targeted communications outreach (Annual Strategic Foresight Conference, other related key events and conferences, blogs and other dissemination around targeted research outputs)

Partners contributing to this deliverable

Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking

Address gender and social inclusion aspect	1
Potential for/ actual contribution to outcomes	4
Level of shared ownership (partnerships across org.)	2
What is your personal perspective of the importance of this product	5

Deliverable dissemination

Open access restriction: Yes

License adopted: <Not defined>

Dissemination Channel: other

Dissemination URL: <Not defined>

Deliverable Metadata

Description: Details on the publications can be found in the data sharing tab. I added the final products there because I wanted to share also a couple of presentations as proof of the new results that have been generated.

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing

Mason-D'Croz (Dec 2015) INAI - IMPACT3, a selection of projections from IPCC scenario.pptx
Wiebe IFPRI Policy Seminar DC 10Nov15-tbs.pptx
http://www.ifpri.org/publication/international-model-policy-analysis-agricultural-commodities-and-trade-impact-model-0

Deliverable #6

Main Information	
Title: Improved IMPACT-suite with added features on land-use. Design of conceptual-framework, Data-collection, and mining, Model land-supply-equations.	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Models
Year of expected completion: 2015	
Status: Complete	

Next-user
Scientific community (AgMip partners and GFSF partners), and technical experts in partner organizations (such as FAO, OECD, CAADP)
Knowledge, attitude, skills and practice changes expected in next-user: Better understanding of climate impacts on agriculture, and vice versa, through acquired ability to use IMPACT and analyse related results, using its improved version (IMPACT 3), and with added features on land use.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: 1. A web portal that features IMPACT 3, and enables users to generate results 2. Continued training with key staff in partner organizations 3. Targeted communications outreach (Annual Strategic Foresight Conference, other related key events and conferences, blogs and other dissemination around targeted research outputs)

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	1
Potential for/ actual contribution to outcomes	3

Level of shared ownership (partnerships across org.)	2
What is your personal perspective of the importance of this product	4

Deliverable dissemination
Open access restriction: Limited Exclusivity Agreements
License adopted: <Not defined>
Dissemination Channel: other
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
http://www.ifpri.org/publication/international-model-policy-analysis-agricultural-commodities-and-trade-impact-model-0

Deliverable #7

Main Information	
Title: Improved IMPACT model with added-features on land-use; Report “Changes in land-use and resulting environmental impacts"	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Scientific community (AgMip partners and GFSF partners), and technical experts in partner organizations (such as FAO, OECD, CAADP)
Knowledge, attitude, skills and practice changes expected in next-user: Better understanding of climate impacts on agriculture, and vice versa, through acquired ability to use IMPACT and analyse related results, using its improved version (IMPACT 3), and with added features on land use.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: 1. A web portal that features IMPACT 3, and enables users to generate results 2. Continued training with key staff in partner organizations 3. Targeted communications outreach (Annual Strategic Foresight Conference, other related key events and conferences, blogs and other dissemination around targeted research products)

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #8

Main Information	
Title: Improved IMPACT model with added features on land-use; Policy-brief and dissemination on “Changes in land-use"	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Policy briefs - Briefing paper
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Scientific community (AgMip partners and GFSF partners), and technical experts/ policy makers in partner organizations (such as FAO, OECD, CAADP)
Knowledge, attitude, skills and practice changes expected in next-user: Better understanding of climate impacts on agriculture, and vice versa, through acquired ability to use IMPACT and analyse related results, using its improved version (IMPACT 3), and with added features on land use.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: 1. A web portal that features IMPACT 3, and enables users to generate results 2. Continued training with key staff in partner organizations 3. Targeted communications outreach (Annual Strategic Foresight Conference, other related key events and conferences, blogs and other dissemination around targeted research outputs)

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>

What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #9

Main Information	
Title: A series of thematic Policy Briefs, including topics discussed in the Research Monograph	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Policy briefs - Briefing paper
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Technical experts/ Policy makers in partner institutions as well as broader policy audiences.

Knowledge, attitude, skills and practice changes expected in next-user: Technical experts/ Policy makers will benefit from the results of a full matrix of scenarios reflecting multiple Shared Socioeconomic Pathways (SSPs)and Representative Concentration Pathways (RCPs), using multiple GCMs, in order to better understand the impacts of climate change on agriculture and food security, and prepare adequate policy responses.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Targeted dissemination activities; ongoing and in key international fora.

Partners contributing to this deliverable

Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking

Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing

Deliverable files
<Not defined>

Deliverable #10

Main Information	
Title: Improved IMPACT suite with added features on land-use. Conclusion of modeling-exercises: top-down land-use-allocation, and rule-based-allocation.	
MOG # 4: Improved regional/global investment choices through appropriately contextualised priority setting, drawing on global foresight and socio-economic regional scenarios	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Models
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
Scientific community (AgMip partners and GFSF partners), and technical experts in partner organizations (such as FAO, OECD, CAADP)
Knowledge, attitude, skills and practice changes expected in next-user: Better understanding of climate impacts on agriculture, and vice versa, through acquired ability to use IMPACT and analyse related results, using its improved version (IMPACT3). The added features on land use may allow to explore environmental impacts from changes in land-use.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: 1. A web portal that features IMPACT 3, and enables users to generate results 2. Continued training with key staff in partner organizations 3. Targeted communications outreach (Annual Strategic Foresight Conference, other related key events and conferences, blogs and other dissemination around targeted research outputs)

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing

Deliverable files
<Not defined>

5.3 Summary on next-users

Next user #1
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: Trade and Agriculture Directorate, Environment Division, OECD, Paris: Ada Ignaciuk
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: Initially the interactions consisted in a workshop and training session about the IMPACT model. As work developed into a more tangible deliverable, engagement was achieved through continued daily remote collaboration over phone or e-mail. The developed personal relationship helped to build confidence in the partner institution regarding the capabilities of the model and approach, thus inviting demands for further collaboration.
Reported deliverables serve as evidence towards this achieved change: research article published with the OECD, available at: http://onlinelibrary.wiley.com/doi/10.1111/1746-692X.12088/full
Lessons and implications for the next planning cycle: Contributions to OECD analysis on climate change, should in turn inform how the OECD recommends policies on investments in agriculture. The success of this first phase of collaboration may lead to a second phase with a focus on using IMPACT to analyze extreme events and effects on trade.

Next user #2
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: Food and Agriculture Organization of the United Nations (FAO)
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: Personal contact and remote meetings
Reported deliverables serve as evidence towards this achieved change: contribution to peer-reviewed journal: http://ebrary.ifpri.org/cdm/ref/collection/p15738coll5/id/4999
Lessons and implications for the next planning cycle: the collaboration with FAO is being scaled up this year (2016)

5.4 Project highlights

6. Activities

Activity #1	
Title: IMPACT model development: 1. Including “Variability”. 2. Continuation of Global Land-Use Module development	
Description: This activity targets to further enhance the IMPACT suite of models, towards improved analysis of climate change impacts, by handling variability and land-use. Firstly, although there is broad agreement about many of the basic drivers of climate change, there are uncertainties about how climate change will play out over time. The IMPACT model can be used to explore the impact of variability in the results from the various GCMs by specifying the same set of drivers in a number of different GCMs, and exploring the variability of the economic results. We can then analyze these results to explore the robustness of different adaptation policies. Secondly, building on land-use modeling work conducted under CCAFS Theme 4.3, this project will deliver a sound conceptual framework of a land-use supply module, in connection with IMPACT, which is accounting for land-use competition between agricultural sector and non-agricultural sector as well as competition within agriculture.	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Cenacchi, Nicola <N.Cenacchi@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** code and data module completed

Activity #2	
Title: Policy Engagement under Global Futures and Strategic Foresight (GFSF) project	
Description: This activity will target policy engagement through: 1. Publication of a Research Monograph: “Climate Change, Agriculture and Water: Scenarios to 2050” , followed by targeted policy briefs and dissemination activities; 2. A possible side event at COP-21, in collaboration with the AgMIP-project. In parallel, and under the GFSF project, policy engagement continues at various levels: a. At the CGIAR level, GFSF partners help inform decisions about work on their centers’ mandate crops; b. IMPACT results help inform prioritization in several CRPs; c. In CCAFS, IMPACT has been and will be used in quantification exercises throughout the regional scenario process; d. Collaboration with non-CGIAR national and international partners in capacity-building and conducting research to inform decision-makers; e. Providing inputs to the Bill&MelindaGatesFoundation for their own priority-setting exercises; f. Collaboration with FAO, OECD and USDA to inform policy discussions by governments and international organizations; g. Participation through AgMIP in global economic multi-model-assessments.	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Cenacchi, Nicola <N.Cenacchi@cgiar.org>, IFPRI - International Food Policy Research Institute	

Status: On-going	**Justification:** the side event was held at COP 21. The Monograph will be completed by June of this year (2016)

Activity #3	
Title: (BILATERAL)-Enhancing IMPACT-suite, to handle variability and land-use. Policy engagement under GFSF	
Description: The Global Futures and Strategic Foresight Project (GFSF), with which this project is strongly related to, and operates within, is a joint venture, led by IFPRI and funded by the Bill and Melinda Gates Foundation, the CGIAR Research Program on Policies, Institutions and Markets (PIM), and the CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Particularly, the project is utilizing the policy engagement platform of the GFSF, to achieve some of its policy outcome targets, as also specified in the other two activities. This is a bilateral activity aimed at enhancing the IMPACT model suite, to handle climate variability and land-use change for improved analysis of climate-change impacts. Policy engagement under GFSF	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Cenacchi, Nicola <N.Cenacchi@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: Complete	

Lessons regarding your project activities and possible implications for the coming planning cycle: IMPACT model development has entailed some delay in the completion of the 2050 Monograph. We are well placed to complete the book by mid year.

7. Leverages

<Not defined>

Submitted on 2016-02-29 at 17:14 UTC

Title: (IFPRI SA) Scaling-up climate smart agriculture through policies and institutions: linking it with national agenda of food security

Start date (dd-MM-yyyy)	01-03-2014	**End date (dd-MM-yyyy)**	31-12-2017
Management liaison	F4 - Flagship 4	**Mgmt. liaison contact**	Thornton, Philip <p.thornton@cgiar.org>
Lead organization	IFPRI - International Food Policy Research Institute - United States	**Project leader**	Joshi, PK <p.joshi@cgiar.org>
Project type	CCAFS COFUNDED	**Detailed project workplan**	<Not defined>

Project is working on

Flaship(s)	Region(s)
FP4: Policies and Institutions for Climate-Resilient Food Systems	RP SAs: South Asia

Bilateral project(s) contributing to this project
163 - Capturing the potential for greenhouse gas offsets in Indian agriculture.
164 - Climate change, food security and policy reform in India.

Summary

The proposal intends to up-scale the concept of 'climate smart villages' through improved policies and innovative institutions leading to mega-programs at national and sub-national levels. It will first develop decision support tools to prioritize interventions for up-scaling the concept of climate smart village, and then evaluate alternative policies and institutions, assess their trade-offs to meet the multiple goals, and evolve policies, programs and institutions for their implementation. Initially it will work in three South Asian countries, namely Bangladesh, India and Nepal at sub-national levels, with national agricultural research systems, government departments, development partners and CG centers by engaging key different stakeholders, including poor and women farmers. It is envisioned that the outcome of the study will increase the public and private investment in various climate smart interventions and enhance the capacity of poor to adapt climate change, improve their income and food security through policies/programs to promote climate smart agriculture.

2. Partners

Partner #1

Institution: IWMI - International Water Management Institute

Contacts

Type	Contact	Responsibilities and contributions
Partner	Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>	Under engagement of stakeholders in sensitizing and orienting about CSA, IFPRI and CCAFS will jointly prepare training manuals, guidelines and policy briefs; and organize policy communication

Partner #2 (Leader)

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Project Leader	Joshi, PK <p.joshi@cgiar.org>	Project leader.
Partner	De Pinto, Alex <a.depinto@cgiar.org>	Activity 2014-423 *Leader*.
Partner	Msangi, Siwa <s.msangi@cgiar.org>	Activity 2014-424 *Leader*.

Partner #3

Institution: ICAR - Indian Council of Agricultural Research

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - India

Contacts

Type	Contact	Responsibilities and contributions
Partner	Sikka, A.K <aksikka@icar.org.in>	Activity 2014-198 *Partner*.

Partner #4

Institution: BARC - Bangladesh Agricultural Research Council

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - India

Contacts

Type	Contact	Responsibilities and contributions
Partner	Director, Executive <dir-aic@barc.gov.bd>	Activity 2014-198 *Partner*.

Partner #5

Institution: NARC - Nepal Agricultural Research Council

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - India

Contacts

Type	Contact	Responsibilities and contributions
Partner	Bahadur , Dil <gurung_dilbahadur@yahoo.com>	Activity 2014-198 *Partner*.

Partner #6

Institution: BRAC

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - India

Contacts

Type	Contact	Responsibilities and contributions

Partner	Hossain, Mahabub <hossain.mahabub@brac.net>	Activity 2014-200 *Partner*.

Partner #7

Institution: BAIF Development Research Foundation

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - India

Contacts

Type	Contact	Responsibilities and contributions
Partner	Sohani, Girish <bbsohani@baif.org>	Activity 2014-200 *Partner*.

Partner #8

Institution: IIDS - Institute for Integrated Development Studies

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - India

Contacts

Type	Contact	Responsibilities and contributions
Partner	Pant, Bishnu <bishnu.pant@gmail.com>	Activity 2014-200 *Partner*.

Partner #9

Institution: CUTS - Consumer Unity and Trust Society

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - United States

Contacts

Type	Contact	Responsibilities and contributions
Partner	Chatterjee, Bipul <bc@cuts.org>	Activity 2014-424 *Partner*.

Partner #10

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Partner	Joshi, PK <p.joshi@cgiar.org>	Activity 2014-198 *Leader*. Activity 2014-200 *Leader*. Activity 2014-201 *Leader*.
Project Coordinator	Khan, Md. Tajuddin <M.T.Khan@cgiar.org>	Managing CCAFS P&R

Partnerships overall performance over the last reporting period: We partnered with government institutions (like ICAR), civil society organizations (BAIF, CUTS, NCAER, IIDS), national agricultural research associations in Bangladesh, India, Nepal and Sri Lanka) and CGIAR centres (IWMI, CIMMYT) in this project. Our partners have helped us understand the local contexts to do better research and inform the policy makers. Partnerships with national associations of agricultural researchers has specially helped us in building relationships with key stakeholders in each of these countries to inform and improve policy making and organizing capacity building programs for officials who are deeply embedded into the system.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: Collaboration with local-partners, especially those from the government-institutions helps-in greater-ownership of our research-outputs. However, building formal-partnerships with government-institutions is time-taking. Sometimes months of hard-work to build such-collaboration could flounder in the-end because of an unexpected-transfer or superannuation of a senior-officer. Even when the collaboration fructifies, the planned-activities almost always get-delayed due-to enormous-paperwork and procedural-niceties involved. One needs to factor these in during the planning-phase itself, especially when deciding the project-milestones. On the positive-side, such-collaborations hold great-promise for big-impact of our-research, in terms of ownership of research by policy-makers, likely impact on thousands of farmers and capacity-building of the NARS institutions-themselves.

3. Locations

Project level	Latitude	Longitude	Name
Country	Not applicable	Not applicable	Bangladesh
Country	Not applicable	Not applicable	India
Country	Not applicable	Not applicable	Nepal
Province	18.96	18.96	Maharashtra
Province	30.73	30.73	Haryana
Province	23.25	23.25	Madhya Pradesh
Province	25.37	25.37	Bihar

4. Outcomes

4.1 Project outcome narrative

Project outcome statement
This project will enable policies for promoting climate smart agriculture and help develop programs at national and sub-national levels on 'Climate Smart Agriculture for Development' (CSA4D) through modelling and consultations with stakeholders in Bangladesh, India and Nepal.

The project will target government departments, international donors, civil society organizations, financial and insurance institutions and ICT service providers. At least four international donors (namely the World Bank, IFAD, ADB, and IFC) will use the outputs for financing national and sub-national governments, as the climate smart agriculture, food security and poverty alleviation are high priority in their development agenda. In India, we shall target Rashtrya Krishi Vikash Yojana (RKVY) and National Bank for Agriculture and Rural Development (NABARD) and different Ministries for funding the schemes for implementation. It is envisioned that sub-national governments and financing institutions in three countries, will make use of the outputs to support climate smart interventions.

Annual progress towards outcome (end of 2015): Policy change in investment practices in agriculture at National and Sub national level for the following three countries in South Asia (India, Bangladesh and Nepal), and develop Inventory of promising climate smart agriculture practices and technologies and other intervention developed. Undertake the feasibility analysis of climate smart agricultural implementation (institutional, financial analysis) at National and Sub-national level.
TO REPORT ON IN AUGUST 2015; Increased Indian government investments in climate-smart agriculture by USD 800-1000 million, triggering adoption of practices by about 2.5 million farmers in future years; Work with Planning Commission in Bangladesh to foster similar outcomes and USD 100 million investment in future years; Work in Nepal on a similar but longer term trajectory

Annual progress towards project outcome in the current reporting cycle (2015): We engaged intensely with policy-makers in India, Bangladesh and Nepal. In India, we reached-out to agriculture and rural-development-departments in states of Madhya-Pradesh, Maharashtra and Uttar-Pradesh and national level institutions like Indian-Council of Agricultural-Research (ICAR) and National-Bank for Agriculture and Rural-Development (NABARD) and contributed research-based ideas to the national annual-budget making process. Our-engagement was focused at identifying-opportunities for making the existing state and central-level policies and programs more-effective in promoting climate-smart-agriculture (CSA). More-specifically, we provided inputs to policy-makers to 1) rationalize existing-subsidies for fertilizers, mechanization and promotion of CSA to make-them more-equitable, friendly to women and smallholders and sustainable; 2) identify-opportunities to foster-convergence among different-government programs and policies and departments implementing them and 3) help state-governments in India leverage available financial-resources in the form of federally supported schemes to promote CSA. In Nepal, we are working with the Department-of-Agriculture in restructuring it for the proposed federal set-up after the adoption of the new-Constitution. We are advising the department on how to make the restructured federated agricultural-department more responsive to climate-change and more-effective in dealing with the challenge.

Key outcomes achieved so far in 2015 include:

- A study to identify-opportunities for better-convergence in government policies and programs in Bangladesh has been used by the General Economics Division of the Planning Commission to prepare the 7th Five-Year Plan for 2015-16-2019-20
- ICAR, India has asked us to collaborate with them to do research on how to make government's flagship soil-health-cards program more-effective in making agriculture nitrogen-smart
- Government-of-India has changed subsidy-norms for promotion of solar-pumps for agriculture following our research
- A Nodal-agency in Government of Madhya-Pradesh are using our-inputs to prepare new pilot-schemes to promote-CSA. Government of Uttar-Pradesh has also shown-interest in a similar- engagement.
- NABARD, the apex development-bank in India, has sought our-inputs to improve their lending-program for public-tubewells.

Communication and engagement activities have contributed to achieving your Project outcomes: We organized special sessions to present our research and do training and capacity building in annual meetings of associations of agricultural researchers in Bangladesh, India, Nepal and Sri Lanka. These meetings were attended by some of the leading policy makers in these countries. We met personnel in NARS, development banks and administrative departments to present our research. After one such meeting, ICAR asked us to collaborate with them in a project to understand how to make soil health cards more effective. Similarly, EPCO in Madhya Pradesh has sought our help to devise a scheme for CSVs.

Evidence documents of progress towards outcomes: Letter from Bangladesh Planning Commission.pdf

Annual progress towards outcome (end of 2016): Two states of India namely Maharashtra and Haryana and one country from South Asia (Bangladesh) will implement climate smart agriculture practices and technologies. The Government of Maharashtra and Haryana will target RKVY (Rashtrya Krishi Vikash Yojana) program and National Bank for Agriculture and Rural Development (NABARD) and in Bangladesh, the VII five year plan we rolled out to allocate appropriate resources for climate smart agriculture practices at National and Sub-national Level.

Annual progress towards outcome (end of 2017): Two states of India namely Bihar and Madhya Pradesh and one country from South Asia (Nepal) will implement climate smart agriculture practices and technologies. The Government of Bihar and Madhya Pradesh will

target RKVY (Rashtrya Krishi Vikash Yojana) program and and National Bank for Agriculture and Rural Development (NABARD) and in Nepal, the climate smart policies will be framed for allocating resources.

Annual progress towards outcome (end of 2018): Increase investment on Climate Smart Agriculture by all the three South Asian Countries (India, Bangladesh and Nepal) at National and Sub-national level as well as by multilateral donors (World Bank, IFAD, ADB, IFC etc.)

Lessons regarding your Theory of Change and implications for the coming planning cycle; e.g. how have your assumptions changed, or do you have stronger evidence for them: <Not defined>

4.2 Contribution to CCAFS Outcomes

RP SAs - Outcome 2019: National and sub-national governments develop climate-smart agriculture policies and strengthen related institutions based on evidences from case studies, data, tools, and models

Indicator #1: FP4 Indicator: # of equitable national/subnational food system policies enacted that take into consideration climate smart practices and strategies

2019	
Target value: 6 National and sub-national policies	**Cumulative target to date:** Cannot be Calculated
Target narrative: Develop at least 6 policies at national/sub national levels to prioritise climate smart agriculture intervention this will lead to 2.5 million farmers in India (Maharashtra, Haryana, Madhya Pradesh and Bihar), Bangladesh and Nepal will implement Climate Smart Agriculture practices and technologies.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>	

2015		
Target value: To develop inventories of climate smart agriculture and increase in government investments for climate smart agriculture practices and technologies	**Cumulative target to date:** Cannot be Calculated	**Target achieved:** 1.0
Target narrative: Report of feasibility study at National and Sub-national level and Increased in government investments in climate smart agriculture practices and technologies		

2015
Narrative for your achieved targets, including evidence: We prepared inventories of policies for CSA in Bangladesh, India, Nepal and Sri Lanka. In Bangladesh, our study was used to prepare country's 7th Five-Year Plan (letter from Member, Planning Commission). In India, we contributed inputs to the preparation of the national-budget in 2015 and 2016. Our input was appreciated by the Chief Economic Advisor (excerpt from the email attached) and subsidy policy for solar-pumps was somewhat rationalized. A nodal-agency of government of Madhya-Pradesh is using our research and our inputs to create a $ 3 million project to pilot CSVs in the state and another project to promote solar-pumps.
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: In preparing our policy inventories in each country, we highlighted the (often missing) gender sensitivity of policies for promoting climate smart agriculture. We underlined if any program or scheme had provisions to include women or engage them as important stakeholders in designing or implementing the scheme. More often than not, such provisions were missing. We have highlighted this omission and recommended special focus on women's needs and preferences. We also carried out studies to assess women's preferences and willingness-to-pay for such technologies separately from men in their families to make our recommendations more persuasive to policy makers and other stakeholders.

2016	
Target value: 3	**Cumulative target to date:** Cannot be Calculated
Target narrative: Develop at least 3 policies at national/sub national levels to prioritise climate smart agriculture intervention. This will lead 1 million farmers to implement Climate Smart Agriculture technologies and practices.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: We have analyzed existing CSA policies & programs in South Asian countries to understand their implications on women and smallholders. Further, we are actively trying to capture preferences of women farmers in our research on understanding farmers' preferences and willingness to pay for CS technologies and practices. This research will inform policy-makers on how to make CSA policies and programs more inclusive and sensitive to gender issues in agriculture.	

2014		
Target value: 1	**Cumulative target to date:** 1	**Target achieved:** <Not defined>
Target narrative: A recent study by IFPRI on Solar pumps suggest that well-designed program to promote solar pumps can help to promote drought proofing and make agriculture more resilient to climate change. It indicates making irrigation cheaper could be the most effective strategy to make agriculture climate-smart. Based on our research, we suggested changes in the existing subsidy programs to promote solar pumps for irrigation. NABARD, India's premier lending agency for rural development projects and programs has accepted our receommendations and incorporated the changes in its new program to subsidize installaton of 10,000 solar pumps across India.		
Narrative for your achieved targets, including evidence: <Not defined>		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: not reported		

2014
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways
NA

Collaborating with other CRPs: <Not defined>

4.4 Outcome case studies

Outcome case study #1
Title: INCREASED BUDGET-ALLOCATION AND IMPROVED SUBSIDY POLICY TO PROMOTE SOLAR-PUMPS FOR IRRIGATION AND CLIMATE-SMART-AGRICULTURE IN INDIA
Outcome statement: We presented our-research to the chief-economic-advisor of the ministry-of-finance in the government of India in the pre-budget discussions organized by his office. We also presented our-work to NABARD—the leading development-bank in India and to private-firms (like Claro-Energy, SunEdison, and Rotomag) of India. Government of India has increased budget-allocation for promotion of solar-pumps (a climate-smart option) for irrigation and revised the design of the subsidy-policy. Government-of-India launched a credit-cum-subsidy scheme to install 10,000 solar-pumps in two-years (by 2016) across India.
Research Outputs: We published a research paper on effectiveness of different kinds of energy subsidies on farmers' ability to mitigate the impact of drought on agriculture along with the analysis of the impact of solar pumps. A more detailed analysis of the impact of solar pumps on crop area, crop yields and farmers' net returns from paddy in Bihar is under revise and resubmit (R&R) at a peer-reviewed international journal. We have published a news article and a blog based on this research. We presented this research in CCAFS partners' meetings in Colombo and New Delhi and shared our findings with the officials of Barind Multi-purpose Development Authority (BMDA) in Bangladesh.
Research Partners: Claro Energy facilitated evaluation of solar powered public tube-wells in Bihar by sharing data and their experience in installation and management of solar powered systems. IWMI partnered with us in our exploratory research on public policies for promotion of solar pumps in different states of India.
Activities that contributed to the outcome: We published our research in an IFPRI discussion paper and a blog and we also published an op-ed based on our research in Mint, a leading business newspaper in India. We also presented our research and recommendation to the Ministry of Finance in the pre-budget policy discussions organized by the Chief Economic Advisor to the Minister of Finance. Further, we organized a consultation with the leading private-companies that sell solar-irrigation-pumps to share our findings with them. These companies include Claro-Energy, SunEdison and Rotomag. We approached and met senior-officials in NABARD to recommend provision of credit from Banks for farmers willing to invest in solar-pumps. We also carried-out an evaluation of solar-pumps installed by Claro Energy in Bihar and recommended Claro to try mobile solar powered pump-sets to extend their reach to more farmers. Claro-Energy has accepted our suggestion and is testing technical and financial viability of mobile solar pump-sets.
Non-research Partners: Government of India, state governments of Madhya Pradesh, Uttar Pradesh, Bihar and Maharashtra, National Agricultural Bank for Agricultural and Rural Development (NABARD), Claro-Energy, SunEdison and Rotomag
Output Users: Private companies working in the business of selling solar pumps to farmers (Claro, Rotomag, Sunedison), consultants promoting renewable energy in India (Nextant), development banks (NABARD), state and central governments in Bangladesh, India and Nepal.
How the output was used: Ministry of Finance increased budget allocation for solar-pumps for irrigation. NABARD rationalized subsidies for solar pumps according to our recommendations. Government of Madhya Pradesh is writing proposals with technical inputs from us to raise more resources from the National Green Fund, to provide more solar powered irrigation pumps to farmers.

Evidence of the outcome: We received an email from the CEA, Government-of-India, appreciating our-inputs and asking for more-information. After this, the budget-allocation to solar-pumps was increased. EPCO a nodal-agency of the-government of Madhya-Pradesh has-sought technical-inputs from us to raise-resources for installing more solar-pumps in-the-state. NABARD has changed subsidy-norms for solar-pumps according to our published-recommendations.

References: Kishore, A., Joshi, P. K., & Pandey, D. (2014). Droughts, distress, and policies for drought proofing agriculture in Bihar, India. IFPRI Discussion paper.
Kishore, A., Shah, T., & Tewari, N. P. (2014). Solar Irrigation Pumps: Farmers' Experience and State Policy in Rajasthan. Economic & Political Weekly, 49(10), 55-62.
Avinash Kishore and Divya Pandey. Fighting droughts in Bihar. IFPRI South Asia Blog, October 7th, 2015 http://southasia.ifpri.info/2015/10/07/fighting-droughts-in-bihar/
Divya Pandey. Striving for drought proof agriculture in Bihar, India. IFPRI South Asia Blog, February 13th, 2015. http://southasia.ifpri.info/2015/02/13/striving-for-drought-proof-agriculture-in-bihar-india/
Divya Pandey and Avinash Kishore. Saving agriculture from weather woes. (Opinion expressed in Livemint) http://www.livemint.com/Opinion/JHAv3hY96OGCn8uzUUcPPO/Saving-agriculture-from-weather-woes.html

The primary 2019 outcome indicator that this case study is contributing to:
FP3 Indicator: # of low emissions plans developed that have significant mitigation potential for 2025, i.e. will contribute to at least 5% GHG reduction or reach at least 10,000 farmers, including at least 10% women.

Explanation of the link between your outcome story and the CCAFS indicators:

Year: 2015

Annexes uploaded: Solar papers.zip

Outcome case study #2

Title: FIVE STATE GOVERNMENTS IN INDIA CONSIDER NEW SCHEMES TO SCALE-OUT CLIMATE-SMART VILLAGES

Outcome statement: We developed pilot schemes worth USD 140 million for five states (Bihar, Chhattisgarh, Madhya Pradesh, Maharashtra and Uttar Pradesh) to increase investment into climate smart agriculture (CSA). Our efforts have triggered the policy process for greater allocation of plan resources for climate smart villages, which hitherto were conspicuously not budgeted.

Research Outputs: Dr Dinesh K Marothia, Member, Chhattisgarh State Planning Commission invited us to present the concept of climate-smart villages to the Task Force of the State Planning Commission and helped us to share the idea and possible ways of implementing it with government officials in Chhattisgarh. Dr Lokendra Thakkar, Executive Director, EPCO Madhya Pradesh invited us to present the idea of climate-smart village to the senior officers in the Department of Agriculture, The Renewable Energy Development Authority and the Urban Development and Environment Department of Madhya Pradesh government. Dr MJ Khan, President, Centre for Agriculture and Rural Development, New Delhi, collaborating for developing pilot schemes for Government of Uttar Pradesh.

Research Partners: 1. Dr R K P Singh, Former Member of the Bihar State Farmers' Commission, Bihar, facilitating implementation of the pilot scheme for the Government of Bihar.
2. Dr Barun Deb Pal (bdpal@isec.ac.in): Dr. Pal carried out surveys in rural Madhya Pradesh to understand farmers' preferences for CSA practices and their willingness to pay for them. He organized consultations in Madhya Pradesh, attended by scientists, extension workers and government officer.
3. Dr Mruthyunjaya. President, Agricultural Economics Research Association (AERA), New Delhi, supported in organizing a special session on 'converging policies and programs for climate smart agriculture', in the Annual Conference of AERA.

Submitted on 2016-02-29 at 17:14 UTC

Activities that contributed to the outcome: For science-policy interface, we followed a six-pronged strategy to influencing policy making process. These include (i) organized policy dialogues to influence policy advisors, policy professionals, bankers, and farmer groups, (ii) interacted with key policy advisors and professionals, such as Secretaries and Advisors in Ministry of Agriculture, Members of Planning Boards in the selected states, Chairman of the National Bank of Agriculture and Rural Development (NABARD), (iii) attended important meetings organized by the government departments, (iv) interacted with key international donors, such as SDC, IFAD and the World Bank, (v) delivered presentations in key policy forums, including the Indian civil service officers on Civil Service Day, and (vi) organized capacity development program for extension personnel. Our events were always attended by policy advisors and senior bureaucrats. These were complemented by one-to-one interactions with key stakeholders to influence them for promoting climate smart villages.

Non-research Partners: Dr Dinesh K Marothia, Member, Chhattisgarh State Planning Commission, Chhattisgarh.
Dr Lokendra Thakkar, Executive Director, The Environmental Planning & Coordination Organization (EPCO), Madhya Pradesh, India
Dr Kirit N Shelat, Executive Chairman, National Council for Climate Change and Public Leadership, Gujarat.
Dr MJ Khan, President, Centre for Agriculture and Rural Development, New Delhi,
DNS Regional Institute of Cooperative Management, Patna, Bihar, and
Centre for Good Governance, Hyderabad, Telengana.

Output Users: The Environmental Planning & Coordination Organization (EPCO), Madhya Pradesh
State Planning Commission, Chhattisgarh
Uttar Pradesh Diversified Agriculture Support Project (UPDASP)

How the output was used: Outputs were used to prepare proposals to promote climate smart agriculture by piloting the concept climate-smart villages. Madhya Pradesh has already submitted a detailed project report to NABARD for financial support. A similar plan is under consideration in Chhattisgarh. In Bangladesh, our output was used for the 7th Plan Document.

Evidence of the outcome: Representatives-of-EPCO, Madhya-Pradesh have sent-us a request to-seek our-inputs for their detailed-project-report (DPR). A-meeting of senior-officials of MP decided to-explore adoption of CSVs. The decision was-recorded into the minutes-of-the-meeting. Government-of-Uttar-Pradesh has-invited IFPRI and CCAFS to-discuss the idea of CSV on 9th March-2016. They have-shown keen-interest in understanding, and possibly, implementing-policies for-CSA.

References: Taneja, G., Pal, B. D., Joshi, P. K., Aggarwal, P. K., and Tyagi, N. K. (2014). Farmers'-preferences for climate-smart-agriculture: An-assessment in the Indo-Gangetic-Plain (Vol. 1337). Int-Food-Policy-Res-Institute, Discussion-paper, IFPRI, Washington DC, USA.
Tyagi, N. K., Joshi, P. K., Aggarwal, P. K., and Khatri-Chhetri, A. (2014). Institutions-and-policies to scale-out climate-smart-agriculture: South-South exchanges. CCAFS-Workshop-Report. CGIAR-Research-Program-on-Climate-Change, Agriculture and Food-Security (CCAFS). Copenhagen, Denmark.
Kumar, P., Joshi, P. K., & Aggarwal, P. (2014). Projected-Effect of Droughts on Supply, Demand, and Prices of Crops in India. Economic & Political Weekly, 49(52), 55.
P K Joshi, and Pramod Aggarwal, "Agriculture must get climate smart" (Opinion-in-Newspaper) http://archive.financialexpress.com/news/column-agriculture-must-get-climate-smart/1252242

Md Tajuddin Khan, "Expert Promote Climate-Smart-Agriculture in Tribal Area" (Article-in-newspaper) http://articles.economictimes.indiatimes.com/2015-05-04/news/61800394_1_extreme-climate-events-climate-change-climate-smart

Md Tajuddin Khan, "Need to Promote Climate-Smart-Agriculture in Tribal Talukas" (Article-in-newspaper) http://www.uniindia.com/news/other/need-to-promote-climate-smart-agriculture-in-tribal-talukas-of-palghar-district-experts/49100.html

Md Tajuddin Khan, "Experts Stress on Climate-Smart-Village in Tribal Areas" (Article-in-newspaper) http://www.business-standard.com/article/pti-stories/experts-stress-on-climate-smart-villages-in-tribal-areas-115050400318_1.html

Md. Tajuddin Khan, "Perceptions of climate change and agriculture in tribal Maharashtra" (CCFAS-blog) https://ccafs.cgiar.org/blog/perceptions-climate-change-and-agriculture-tribal-maharashtra#.VaYwZ6O6bIV

The primary 2019 outcome indicator that this case study is contributing to:
FP1 Indicator: # of national and subnational development initiatives and public institutions that prioritize and inform project implementation of equitable best bet CSA options using CCAFS science and decision support tools
FP2 Indicator: Increase in research-informed demand-driven investments in climate services for agriculture and food security decision-making (millions)

Explanation of the link between your outcome story and the CCAFS indicators:

Year: 2015

Annexes uploaded: Five states_Schemes to Scale-out CSVs.zip

Outcome case study #3

Title: MAINSTREAMING CLIMATE CHANGE: CONVERGENCE OF POLICIES AND PROGRAMS FOR SUSTAINABLE AND CLIMATE RESILIENT AGRICULTURE

Outcome statement: Number of strategies are targeted to mainstream the activities of development planning for Bangladesh in order to ensure that Bangladesh's development plan is climate resilient and/or climate sensitive. The report also provided specific examples to help policy makers understand and develop policies to build resilience to agriculture to reduce vulnerability due to climate change. The main objectives are for triggering investment and to upscale for climate smart agriculture (CSA).

Research Outputs: Several programs and policies have been analysed for convergence of policies and programs for sustainable and climate resilient agriculture. A report is produced and submitted to Government of Bangladesh in aid for developing policies on sustainable and climate resilient agricultural for the 7th Five Year Plan (2015-2020) and to promote and upscale the investment in climate smart agriculture technologies and practices.

Research Partners: 1. Professor Zahurul Karim, Fellow of the World Academy of Sciences, Former Secretary, Government of Bangladesh and Chairman, Centre for Agri-research and Sustainable Environment and Entrepreneurship Development (CASEED) Dhaka, Bangladesh

2. Professor A.K. EnamulHaque, Director, Asian Center for Development, Professor of Economics, East West University, Dhaka, Bangladesh

Activities that contributed to the outcome: We organized policy dialogues to influence policy advisors, policy professionals and interacted with key policy advisors and professionals, such as Secretaries and Advisors in Ministry of Agriculture, Members of Planning Boards. Attended important meetings organized by the government departments and assisted General Economics Division of Bangladesh Panning commission for the 7th five year plan to develop proposal and program to upscale climate smart agriculture. Delivered presentations in key policy forums which were attended by policy advisors and senior bureaucrats.

Non-research Partners: General Economic Division of Bangladesh Planning Commission.

Output Users: Government of Bangladesh

How the output was used: A study to identify-opportunities for better-convergence in government policies and programs in Bangladesh has been used by the General Economics Division of the Planning Commission to prepare the 7th Five-Year Plan for 2015-16-2019-20.

Evidence of the outcome: Our study-recommendation is used by General-Economics-Division of the Bangladesh Planning-Commission for the 7th five-year plan. However due to political-uncertainty in Bangladesh have resulted in an unstable-and-somewhat unpredictable policy-environment in-the region. Therefore, the documentary-evidence for convergence-for-policies and programs and for increase in investment for climate-smart-agriculture are yet to be available.

References: GOB. (1999). National Water Policy. Dhaka: Ministry of Water Resources, Government of Bangladesh.
GOB. (2008). National Food Policy Plan of Action (2008-15). Dhaka: Ministry of Food and Disaster Management, Government of Bangladesh.
GOB. (2009). Bangladesh Climate Change Strategy and Action Plan 2009. Dhaka: Government of Bangladesh.
GOB. (2011). Bangladesh Country Investment Plan: A road map towards investment in agriculture, food security and nutrition. Dhaka: Government of Bangladesh.
GOB. (2013). National Agricultural Policy 2013. Dhaka: Ministry of Agriculture, Government of Bangladesh.
Government of Bangladesh. (2013). National Agricultural Policy. Dhaka: Ministry of Agriculture.

The primary 2019 outcome indicator that this case study is contributing to:
FP1 Indicator: # of national and subnational development initiatives and public institutions that prioritize and inform project implementation of equitable best bet CSA options using CCAFS science and decision support tools
FP2 Indicator: Number of regional, national, and/or sub-national initiatives incorporating research outputs to develop or improve major demand-driven, equitable, climate informed services that support rural communities
FP2 Indicator: Increase in research-informed demand-driven investments in climate services for agriculture and food security decision-making (millions)

Explanation of the link between your outcome story and the CCAFS indicators:

Year: 2015

Annexes uploaded: Mainstreaming Climate Change_Bangladesh.pdf

5. Project outputs

5.1 Overview by MOGs

Major Output groups - 2019
FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues **Brief bullet points of your expected annual 2019 contribution towards the selected MOG** <Not defined> **Brief plan of the gender and social inclusion dimension of the expected annual output** <Not defined>
FP4 - MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios **Brief bullet points of your expected annual 2019 contribution towards the selected MOG** <Not defined> **Brief plan of the gender and social inclusion dimension of the expected annual output** <Not defined>

Major Output groups - 2014
FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues **Brief bullet points of your expected annual 2014 contribution towards the selected MOG** <Not defined> **Brief summary of your actual 2014 contribution towards the selected MOG:** <Not defined> **Brief plan of the gender and social inclusion dimension of the expected annual output** <Not defined> **Summary of the gender and social inclusion dimension of the 2014 outputs:** <Not defined>

FP4 - MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios

Brief bullet points of your expected annual 2014 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2014 contribution towards the selected MOG:
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2014 outputs:
<Not defined>

Major Output groups - 2015

FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
Prepared inventories on climate smart agricultural technologies and have submitted various proposals/reports to different stakeholders for implementation at national and sub-national level.

Brief summary of your actual 2015 contribution towards the selected MOG:
Inventories were prepared in Bangladesh, India, Nepal and Sri Lanka in-collaboration with local-partners from NARS. We have-presented them to Planning-Commission and Minister-of-Agriculture in Bangladesh, to concerned-departments in 3 states-of-India and to the leading development-Bank (NABARD) in India. This engagement has led-to some concrete-outcomes and opened-up opportunities for better-outcomes in future.

Brief plan of the gender and social inclusion dimension of the expected annual output
To develop gender-disaggregated data on gender differences in perceptions of climate change and the ability to adopt practices and technologies needed to increase resilience and to map the preferences for CSA technologies, degrees of risk aversion and willingness to pay for new technologies and practices.

Summary of the gender and social inclusion dimension of the 2015 outputs:
We carried out gender-disaggregated surveys and consultations in Bihar, Haryana, Madhya Pradesh and Maharashtra to understand preferences and willingness to pay for CSA technologies and practices of women and men farmers and presented our research to policy-makers in respective states to emphasize the need for gender-sensitive agriculture policies and programs.

FP4 - MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
Submitted proposals/reports at national/sub-national level to different stakeholders to apply outputs in policy formulation.

Brief summary of your actual 2015 contribution towards the selected MOG:
The priority setting exercise in an advance state of readiness. Meanwhile we have presented our interim results in stakeholder consultations. Government of Karnataka has asked us to outline a strategy to sustainably double the agricultural GDP of the state. We will work on the request in 2016.

Brief plan of the gender and social inclusion dimension of the expected annual output
A gender friendly policies on CSA at national/sub-national level.

Summary of the gender and social inclusion dimension of the 2015 outputs:
We surveyed women and men separately and did a gender-disaggregated analysis of farmers' preferences and willingness-to-pay for CSA. We used IFPRI's Women's Empowerment in Agriculture Index (WEAI) to understand women's role and share in decision-making. We highlighted gender dimensions (or their omission) in government policies and programs in our policy-inventories.

Major Output groups - 2016

FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Brief bullet points of your expected annual 2016 contribution towards the selected MOG
Increased awareness and capacity building of key stakeholders on CSA and program needs to promote it in an inclusive and gender sensitive manner.

Develop evidence based policy proposals and inputs to national and sub-national level governments to increase financial allocation to programs for promotion of CSA.

Brief plan of the gender and social inclusion dimension of the expected annual output
We will collect gender-disaggregated data on perceptions of climate change, preference for different CSA technologies and practices and willingness to pay for them. This information will be shared with stakeholders through dialogues and publications and will form the core of new schemes proposed for promotion of CSA.

Submitted on 2016-02-29 at 17:14 UTC

FP4 - MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios

Brief bullet points of your expected annual 2016 contribution towards the selected MOG
Work closely with NARS and state and national level nodal agencies for their capacity building and preparation of policy proposals to promote evidence based programs for promotion of CSA.

Brief plan of the gender and social inclusion dimension of the expected annual output
We will continue to collect gender disaggregated data on awareness, priorities, preferences and willingness to pay for CSA interventions and use this information to inform policy-makers to enable them to design gender sensitive and inclusive policies.

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: The policy landscape changed rapidly-and-drastically in South-Asia in 2014-15. Sri Lanka elected a new government. In Nepal, a new constitution was adopted which would change it from a Unitary to a Federal-polity. India also adopted a new-policy of revenue sharing between the Union and the states where the latter's share in the total-revenue increased from 32% to 42%. These major-changes have created some policy-uncertainty which may-persist for a couple of years till states adjust to the new-systems. This transition-phase offers challenges, but also opportunities for us. We need to change our original-approach and engage more with state-governments in India.

5.2 Deliverables

Deliverable #1

Main Information	
Title: Input-output data of various CS interventions, resource availability in sub-regional/local level	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2015	
Status: On-going	**Justification for cancelling the deliverable:** Data sets on major crops have been collected and being analyzed. A report on Bihar has been shared for Peer Reviewed and for other states and national level is under preparation.

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacity skills, implementation of climate smart agricultural practices and technologies.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement of different stakeholders, sharing knowledge products such as inventory of climate smart agricultural practices, feasibility report and publication.

Partners contributing to this deliverable
Partner #1 (Responsible): Sikka, A.K <aksikka@icar.org.in>, ICAR - Indian Council of Agricultural Research
Partner #2: Director, Executive <dir-aic@barc.gov.bd>, BARC - Bangladesh Agricultural Research Council
Partner #3: Bahadur , Dil <gurung_dilbahadur@yahoo.com>, NARC - Nepal Agricultural Research Council

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>

What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
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Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #2

Main Information	
Title: Decision support system for optimizing the production systems spatially and temporally	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Data
Year of expected completion: 2015	

Status: On-going	**Justification for cancelling the deliverable:** Secondary data on technical parameters have been collected. The data are being analyzed to build the Decision Support System (DSS). We are working on the feasibility analysis, based on this the Investment priorities will be done for country levels to draft the mega-program on climate smart agriculture for development.

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacity skills, implementation of climate smart agricultural practices and technologies.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement of different stakeholders, sharing knowledge products such as inventory of climate smart agricultural practices, feasibility report and publication.

Partners contributing to this deliverable
Partner #1 (Responsible): Sikka, A.K <aksikka@icar.org.in>, ICAR - Indian Council of Agricultural Research
Partner #2: Director, Executive <dir-aic@barc.gov.bd>, BARC - Bangladesh Agricultural Research Council
Partner #3: Bahadur , Dil <gurung_dilbahadur@yahoo.com>, NARC - Nepal Agricultural Research Council

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #3

Main Information	
Title: Reports and publications based on the case studies on prioritizing CS interventions will be published	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2015	

Status: On-going	**Justification for cancelling the deliverable:** Several studies have been prepared under this. In India we have worked on 4 states namely Bihar, Haryana, Madhya Pradesh and Maharashtra. An IFPRI discussion paper is published for prioritizing CSA interventions in Bihar and Haryana. For Madhya Pradesh, reports have been prepared and shared to IFPRI for peer review. For Maharashtra, the study is conducted and brief abstract is submitted for 2016 Agricultural & Applied Economic Association (AAEA) annual meeting in Boston, USA". We are working on the final draft of the paper and it will be shared soon to CCAFS. For Bangladesh we are working with General Economics Division of Bangladesh Planning Commission. A report is produced and submitted to Government of Bangladesh in aid for developing policies on sustainable and climate resilient agricultural for the 7th Five Year Plan (2015-2020) and to promote and upscale the investment in climate smart agriculture technologies and practices.

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacity skills, implementation of climate smart agricultural practices and technologies.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement of different stakeholders, sharing knowledge products such as inventory of climate smart agricultural practices, feasibility report and publication.

Partners contributing to this deliverable
Partner #1 (Responsible): Sikka, A.K <aksikka@icar.org.in>, ICAR - Indian Council of Agricultural Research
Partner #2: Director, Executive <dir-aic@barc.gov.bd>, BARC - Bangladesh Agricultural Research Council
Partner #3: Bahadur , Dil <gurung_dilbahadur@yahoo.com>, NARC - Nepal Agricultural Research Council

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>

What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #4

Main Information	
Title: Policies/programs/schemes on Climate Smart Agriculture(CSA) for sharing with concerned government departments, donors and other stakeholders	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2016	
Status: <Not defined>	

Next-user

National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacity skills, implementation of Climate Smart Agriculture practices and technologies.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Policy analysis, engagement of different stakeholders and knowledge sharing product such as inventory of Climate Smart Agricultural Practices, feasibility report and publication

Partners contributing to this deliverable
Partner #1 (Responsible): Hossain, Mahabub <hossain.mahabub@brac.net>, BRAC
Partner #2: Sohani, Girish <bbsohani@baif.org>, BAIF Development Research Foundation
Partner #3: Pant, Bishnu <bishnu.pant@gmail.com>, IIDS - Institute for Integrated Development Studies

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #5

Main Information	
Title: Report and guiding principles for implementing the policies/programs/schemes	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacity skills, implementation of Climate Smart Agriculture practices and technologies.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Policy analysis, engagement of different stakeholders and knowledge sharing product such as inventory of Climate Smart Agricultural Practices, feasibility report and publication

Partners contributing to this deliverable
Partner #1 (Responsible): Hossain, Mahabub <hossain.mahabub@brac.net>, BRAC
Partner #2: Sohani, Girish <bbsohani@baif.org>, BAIF Development Research Foundation
Partner #3: Pant, Bishnu <bishnu.pant@gmail.com>, IIDS - Institute for Integrated Development Studies

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #6

Main Information	
Title: Report on consultation workshops with key stakeholders for refining and fine tuning the proposed policies/programs/schemes	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Workshops	**Sub Type:** Workshop
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
National and Sub-national Governments, NGOs and Private Sector

Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacity skills, implementation of Climate Smart Agriculture practices and technologies.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement of different stakeholders and knowledge sharing product such as inventory of Climate Smart Agricultural Practices, feasibility report and publication

Partners contributing to this deliverable
Partner #1 (Responsible): Hossain, Mahabub <hossain.mahabub@brac.net>, BRAC
Partner #2: Sohani, Girish <bbsohani@baif.org>, BAIF Development Research Foundation
Partner #3: Pant, Bishnu <bishnu.pant@gmail.com>, IIDS - Institute for Integrated Development Studies

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #7

Main Information	
Title: Communication products such as policy brief, material for print and electronic media	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Communication Products and Multimedia	**Sub Type:** Articles for media or news
Year of expected completion: 2017	
Status: <Not defined>	

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacities skills, and implementation of Climate Smart Agriculture practices and technologies.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement of different stakeholders, sharing knowledge product such as inventory of Climate Smart Agricultural practices, feasibility report, and publication.

Partners contributing to this deliverable
Partner #1 (Responsible): Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #8

Main Information	
Title: Capacity developed and manuals for Climate Smart Agriculture (CSA) implementation	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Communication Products and Multimedia	**Sub Type:** Articles for media or news
Year of expected completion: 2017	
Status: <Not defined>	

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacities skills, and implementation of Climate Smart Agriculture practices and technologies.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement of different stakeholders, sharing knowledge product such as inventory of Climate Smart Agricultural practices, feasibility report, and publication.

Partners contributing to this deliverable
Partner #1 (Responsible): Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #9

Main Information
Title: Reports on regional and national level workshops and capacity building programs

MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Main Type: Workshops	**Sub Type:** Workshop
Year of expected completion: 2017	
Status: <Not defined>	

Next-user

National and Sub-national Governments, NGOs and Private Sector

Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacities skills, and implementation of Climate Smart Agriculture practices and technologies.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement of different stakeholders, sharing knowledge product such as inventory of Climate Smart Agricultural practices, feasibility report, and publication.

Partners contributing to this deliverable

Partner #1 (Responsible): Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking

Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination

Open access restriction: <Not defined>

License adopted: <Not defined>

Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #10

Main Information	
Title: Guidelines for implementing policies and programs to orient key stakeholders	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2016	
Status: <Not defined>	

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Change in policies, capacities skills, and implementation of Climate Smart Agriculture practices and technologies.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement of different stakeholders, sharing knowledge product such as inventory of Climate Smart Agricultural practices, feasibility report, and publication.

Partners contributing to this deliverable
Partner #1 (Responsible): Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>

Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #11

Main Information	
Title: Cost-effective mitigation-strategies within India's agricultural sector, with the use of IMPACT, SPAM and DSSAT models.	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Datasets
Year of expected completion: 2015	

Status: On-going	**Justification for cancelling the deliverable:** Dataset is ready and we are validating with other sources of data and doing preliminary analysis. A draft report has been circulated and it will be shared with CCFAS after Peer Reviewed.

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Knowledge for cost effective GHG mitigation in Indian agricultural sector.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement and knowledge sharing with key stakeholders in India.

Partners contributing to this deliverable
Partner #1 (Responsible): De Pinto, Alex <a.depinto@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #12

Main Information	
Title: Simulations of-the adoption of a set-of-viable-mitigation-strategies and net-total-emissions calculated, with-the use-of DSSAT,DNDC and IMPACT models.	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Datasets
Year of expected completion: 2015	
Status: On-going	**Justification for cancelling the deliverable:** Data is ready and baselines results have been presented in IFPRI and CCAFS south Asia. Simulation of impact of CSA are under way in 4 states of India namely Bihar, Haryana, Madhya Pradesh and Maharashtra. A report on Bihar has been shared for Peer Reviewed.

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Knowledge for cost effective GHG mitigation in Indian agricultural sector.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement and knowledge sharing with key stakeholders in India.

Partners contributing to this deliverable
Partner #1 (Responsible): De Pinto, Alex <a.depinto@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>

Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #13

Main Information	
Title: Economic modeling of India's Ag sector	
MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Datasets
Year of expected completion: 2015	

Status: Extended	**Justification for cancelling the deliverable:** The delay is due to non-availability of more recent years of data. Government has shared the Agriculture Census data, but the input survey data is delayed. Soon it will be updated and shared.

Next-user
National and Sub-national Governments, NGOs and Private Sector
Knowledge, attitude, skills and practice changes expected in next-user: Knowledge on potential vulnerable areas and sectors associated with climate change
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement and knowledge sharing with key stakeholders and facilitate policy reform/design for food security management planning

Partners contributing to this deliverable
Partner #1 (Responsible): Msangi, Siwa <s.msangi@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Chatterjee, Bipul <bc@cuts.org>, CUTS - Consumer Unity and Trust Society

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>

Submitted on 2016-02-29 at 17:14 UTC

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

5.3 Summary on next-users

Next user #1
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: Departments of agriculture, rural development and environment in both state and central governments in India, Bangladesh and Nepal are our key next users. Research institutions like ICAR and BARC serve as technical advisors to the government. They are a second group of our next users. They are supported by the government and are frequently consulted by the departments for formulation of policies, extension and evaluation. Their participation in these multiple roles makes them important for us. Civil society organizations like BAIF in India, BRAC in Bangladesh and IIDS in Nepal work as idea incubators and enjoy credibility in the policy circles. They are also a key next user for us.
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: We presented our research to officers in state and central governments, scientists in NARS, policy professionals in government supported think tanks and NGO leaders and invited them to give us feedback in joint sessions organized with them. This engagement for knowledge sharing with scientists and policy makers has encouraged our next users to utilize our deliverables and adopt changes. Besides presenting and sharing our results with key stakeholders, we also offer our support to them in doing scientific analysis that may be needed to design new pilot projects or programs for promotion of climate-smart agriculture.
Reported deliverables serve as evidence towards this achieved change: We presented the idea of using Climate-Smart-Villages as a way to promote climate-smart-agriculture in Madhya Pradesh Environmental Planning and Coordination Organization (EPCO), a nodal-agency of the Housing and Environment Department of Madhya Pradesh, India responsible for devising policies to deal with climate-change. Using inputs from us, EPCO has prepared a $3 million plan for piloting CSVs in the state with financial-support from the National Adaptation Fund of India. This pilot project is likely to lead to the adoption of CSVs on a much larger scale in the state. Our similar efforts in Uttar-Pradesh and Maharashtra may also result in real-changes.
Lessons and implications for the next planning cycle: We need to continue our engagement with policy makers—bureaucrats in concerned departments, scientists in NARS and regulatory institutions or government supported think tanks—and also the NGO leaders to achieve our outcome goals. In Nepal, the restructuring of the government to a new federal system offers an opportunity to catalyse an enduring commitment to climate smart agriculture. In India, the fiduciary responsibility to support new agriculture programs and schemes has shifted to the states in a big way. Now, we need to engage more with the states to achieve our outcomes.

5.4 Project highlights

6. Activities

Activity #1	
Title: Development of DSS and validation by undertaking case-studies for investment-prioritization of CSA at sub-national levels.	
Description: Several CS interventions are available and tested under Flagship # 1/2 to demonstrate their technical feasibility at CCAFS sites. To prioritize and up-scale, it is necessary to assess their economic/social/environmental feasibility. Since resources are scarce and have alternative uses, it is important to prioritize promising and high impact interventions under various present and future climate change scenario. This requires decision support system tools to optimize benefits and minimize GHG emissions. DSS tools enable spatial and temporal prioritization of investment on high-returns CS interventions. With DSS initially prioritization will be done at selected sites to test the model and prepare sub-regional schemes/programs and later it will be done for country levels to draft the mega-program on CSA for development. The outcomes of the activity will help in evolving enabling policies and decision making process by the policy advisor's for allocating resources to ensure food security and adapt climate change.	
Start date (dd-MM-yyyy): 01-04-2014	**End date (dd-MM-yyyy):** 31-03-2016
Leader: Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** Data on technical parameters have been collected. The data sets are being analyzed to build the Decision Support System (DSS). Preliminary results have been presented in IFPRI and CCAFS south Asia. We are working on the final draft of results and it will be shared soon to CCAFS.

Activity #2	
Title: Drafting policies and programs on 'Climate Smart Agriculture for Development', and its institutional-mechanism for implementation	
Description: Several promising-interventions on CSA are available but need to be up-scaled to improve national food security, reduce climate-risks and meet the post-2015 agenda of Millennium-Development-Goals. Linking these goals with current and future policies requires actionable pro-poor policies and appropriate institutional-modifications. This research will first develop schemes and programs at sub-national levels, assess their feasibility using DSS and link these with on-going government programs such-as Rastrya-Krishi-Vikash-Yojana(RKVY), MG-National-Rural-Employment-Guarantee Scheme(MGNREGA), Integrated-watershed-Development-Program, etc. in India and programs in Bangladesh and Nepal. After understanding the processes, the project will develop a mega program on 'CSA for Development'(CSA4D). Decision-makers will be involved in the evolving the most appropriate policies. Furthermore institutional-arrangements and governance-structure for effective-implementation of these policies will be also designed by involving and close-consultation with government departments/ministries, private-sector and other-stakeholders. Capacity-development to different stakeholders will be given high-priority for implementing proposed-program. It is expected to substantially increase funding either by respective governments and/or donors.	
Start date (dd-MM-yyyy): 01-09-2015	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute	

Status: On-going	**Justification:** We engaged intensely with policy-makers in India, Bangladesh and Nepal. In India, we reached-out to agriculture and rural-development-departments in states of Madhya-Pradesh, Maharashtra and Uttar-Pradesh and national level institutions like Indian-Council of Agricultural-Research (ICAR) and National-Bank for Agriculture and Rural-Development (NABARD) and contributed research-based ideas to the national annual-budget making process. Our-engagement was focused at identifying-opportunities for making the existing state and central-level policies and programs more-effective in promoting climate-smart-agriculture (CSA). More-specifically, we provided inputs to policy-makers to 1) rationalize existing-subsidies for fertilizers, mechanization and promotion of CSA to make-them more-equitable, friendly to women and smallholders and sustainable; 2) identify-opportunities to foster-convergence among different-government programs and policies and departments implementing them and 3) help state-governments in India leverage available financial-resources in the form of federally supported schemes to promote CSA. In Nepal, we are working with the Department-of-Agriculture in restructuring it for the proposed federal set-up after the adoption of the new-Constitution. We are advising the department on how to make the restructured federated agricultural-department more responsive to climate-change and more-effective in dealing with the challenge. Key outcomes achieved so far in 2015 include: • A study to identify-opportunities for better-convergence in government policies and programs in Bangladesh has been used by the General Economics Division of the Planning Commission to prepare the 7th Five-Year Plan for 2015-16-2019-20 • ICAR, India has asked us to collaborate with them to do research on how to make government's flagship soil-health-cards program more-effective in making agriculture nitrogen-smart • Government-of-India has changed subsidy-norms for promotion of solar-pumps for agriculture following our research • A Nodal-agency in Government of Madhya-Pradesh are using our-inputs to prepare new pilot-schemes to promote-CSA. Government of Uttar-Pradesh has also shown-interest in a similar-engagement. • NABARD, the apex development-bank in India, has sought our-inputs to improve their lending-program for public-tubewells.

Activity #3	
Title: Engagement of stakeholders in sensitizing and orienting about CSA	
Description: The success of research outputs rely on how effective capacity building programs and guidelines are designed, and policy communication is made. The proposed activity is to enhance capacity of key stakeholders to implement the climate smart policies and programs and also influence policy makers and donor community to accept the research outputs to allocate resources for climate smart agriculture and implement the program. The activity will undertake need assessment for capacity building and develop training manuals, and guidelines and organize training programs at different levels for implementing climate smart practices and technologies. The activity will also evolve an effective policy communication and media strategy that will be employed for transforming knowledge system to the benefit of poor, women and marginalized groups. The proposed activity will target key stakeholders in government, private sector, development agencies, civil society organizations and farmers' groups for policy communication and capacity building program.	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 30-09-2017
Leader: Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** We have held consultations with government officials, NARS institutions, private enterprises and professional associations (like Agricultural Economic Associations of Bangladesh, India and Nepal) to share CCAFS goals and methods with them, explore collaborations and convergence opportunities and glean their inputs to identify and mainstream suitable CSA in different parts of South Asia. Organized capacity building training program at large scale on prioritizing CSA in Bihar, Hyderabad and Telangana states of India, as well as in Cambodia, Myanmar and south Asian countries namely Bangladesh, India and Nepal. We also published a book on capacity building for climate smart agriculture. Devi Prasad Juvvadi. (2006). Capacity Building for Climate Smart Agriculture. Published by BS Publications, Hyderabad, India. ISBN: 978-93-5230-093-8

Activity #4
Title: (BILATERAL) Capturing the potential for greenhouse gas offsets in Indian agriculture.

Description: The Indian Government recently announced an aggressive GHG emissions intensity target of reducing emissions by 20-25 percent by 2020 on 2005 levels. Policy-makers now face the challenge of developing and implementing policy options consistent with this target. A critical challenge will be to find ways of exploiting low cost mitigation opportunities in sectors like agriculture. An important issue addressed in this project concerns the extent to which broader policy reform in India's agricultural sector might contribute to national emission reduction targets. Beyond these broader reforms, lie specific mitigation policies like 'agricultural offsets' which provide a mechanism by which sectors facing higher marginal abatement costs can tap low cost mitigation opportunities within agriculture. In some instances, realizing mitigation opportunities within agriculture may also offer potential to further enhance existing Indian programs and policies aimed at increasing agricultural productivity and improving the sustainability of India's farming systems.

Start date (dd-MM-yyyy): 01-03-2014	**End date (dd-MM-yyyy):** 31-03-2015
Leader: De Pinto, Alex <a.depinto@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: Extended	**Justification:** Dataset is ready and we are validating with other sources of data and doing preliminary analysis. A draft report has been circulated and it will be shared with CCFAS after Peer Reviewed.

Activity #5	
Title: (BILATERAL) Climate change, food security and policy reform in India.	
Description: The overall goal of this work package is to undertake a macro-level analysis that highlights the potential vulnerable areas and sectors associated with climate change. In this WP, IFPRI will use modeling methods that can simulate the impacts of climate on various agricultural production zones of India, and help the project partners to target the key regions to focus on.	
Start date (dd-MM-yyyy): 01-04-2014	**End date (dd-MM-yyyy):** 31-03-2016
Leader: Msangi, Siwa <s.msangi@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** Data on various crops economics has been collected and various modelling has been approached to simulate the impacts of climate on various agricultural production. Based on the existing data the analysis has been done and sent the draft report for peer review process. However the delay is also due to non-availability of more recent years of data. Government has shared the Agriculture Census data, but the input survey data is delayed.

Lessons regarding your project activities and possible implications for the coming planning cycle: There is a widespread interest across south Asia in the need to do research and implement policies and programs to make agriculture climate smart. Governments as well as research institutions are keen to allocate resources. Bringing them together and collaborating with them can lead to big new initiatives in this field that will help out-scale CCAFS interventions. However change in government in India and and political uncertainty in

Bangladesh and Nepal have resulted in an unstable and somewhat unpredictable policy environment in the region. Many major policies relating to land, food and agriculture have changed or are slated to change in a big way in India and some of its states. Therefore CCAFS need to be highly flexible in adjusting to these big changes in policy perspective and the style of policy making at the top.

7. Leverages

<Not defined>

Submitted on 2016-03-02 at 21:26 UTC

Title: (IFPRI-SEA) Addressing the Impacts of Climate Change in the Philippine Agriculture Sector

Start date (dd-MM-yyyy)	01-03-2014	**End date (dd-MM-yyyy)**	31-12-2016
Management liaison	F4 - Flagship 4	**Mgmt. liaison contact**	Thornton, Philip <p.thornton@cgiar.org>
Lead organization	IFPRI - International Food Policy Research Institute - United States	**Project leader**	Rosegrant, Mark <m.rosegrant@cgiar.org>
Project type	CCAFS COFUNDED	**Detailed project workplan**	<Not defined>

Project is working on

Flaship(s)	Region(s)
FP4: Policies and Institutions for Climate-Resilient Food Systems	RP SEA: South East Asia

Bilateral project(s) contributing to this project
143 - Addressing the Impacts of Climate Change in the Philippine Agriculture Sector

Summary

The project works with the National Economic and Development Authority (NEDA) of the Philippines to establish a decision-support mechanism on agriculture, climate change and food security policies, that uses newly generated data, modelling output and innovative scenario assessment. At the end of the project, NEDA will have increased its capacity to analyze the strengths and weaknesses of policies and explore the resilience and the provisioning capacity of the agricultural sector given future climate scenarios.

2. Partners

Partner #1 (Leader)

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Project Leader	Rosegrant, Mark <m.rosegrant@cgiar.org>	Activity 2014-354 *Leader*. Activity 2014-365 *Leader*. Activity 2014-366 *Leader*. Activity 2014-367 *Leader*. Activity 2014-381 *Leader*.
Project Coordinator	Valmonte-Santos, Rowena <R.VALMONTE-SANTOS@CGIAR.ORG>	Valmonte-Santos, Rowena (IFPRI) <R.VALMONTE-SANTOS@CGIAR.ORG > has been assigned as a project coordinator; and therefore also leading all project activities for P&R purposes.

Partner #2

Institution: NEDA - National Economic and Development Authority

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - United States

Contacts

Type	Contact	Responsibilities and contributions
Partner	Balisacan, Arsenio <AMBalisacan@neda.gov.ph>	Activity 2014-354 *Partner*. Activity 2014-365 *Partner*. Activity 2014-366 *Partner*. Activity 2014-367 *Partner*.
Partner	Sombilla, Merceditas A. <MASombilla@neda.gov.ph>	Activity 2014-354 *Partner*. Activity 2014-365 *Partner*. Activity 2014-366 *Partner*. Activity 2014-367 *Partner*.

Partner #3

Institution: DLSU - De La Salle University

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - United States

Contacts

Type	Contact	Responsibilities and contributions
Partner	Inocencio, Arlene <arlene.inocencio@dlsu.edu.ph>	Activity 2014-354 *Partner*. Activity 2014-366 *Partner*.
Partner	Tiongco, Marites <marites.tiongco@dlsu.edu.ph>	Activity 2014-354 *Partner*. Activity 2014-366 *Partner*.

Partner #4

Institution: UPD - University of the Philippines - Diliman

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - United States

Contacts

Type	Contact	Responsibilities and contributions
Partner	Ravago, Majah-Leah <mvravago@econ.upd.edu.ph>	Activity 2014-354 *Partner*. Activity 2014-366 *Partner*.

Partner #5

Institution: ICRAF - World Agroforestry Centre

Contacts

Type	Contact	Responsibilities and contributions
Partner	Lasco, Rodel <r.lasco@cgiar.org>	Activity 2014-354 *Partner*. Activity 2014-366 *Partner*.

Partner #6

Institution: UPLB - University of the Philippines Los Baños

CCAFS Partner(s) allocating budget

IFPRI - International Food Policy Research Institute - United States

Contacts

Type	Contact	Responsibilities and contributions
Partner	Lansigan, Felino P. <fplansigan@yahoo.com>	Activity 2014-354 *Partner*. Activity 2014-366 *Partner*.
Partner	Sajise, Asa <asajise@yahoo.com>	Activity 2014-354 *Partner*. Activity 2014-366 *Partner*.
Partner	Mendoza, Maria Emilinda <makilinggazer@gmail.com>	Activity 2014-354 *Partner*. Activity 2014-366 *Partner*.

Partner #7

Institution: DA - Department Of Agriculture

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	Serrano, Segfredo <usec.serrano@da.gov.ph>	The involvement of the Department of Agriculture was dropped due to lack of funds to support their participation.

Partnerships overall performance over the last reporting period: NEDA continues to extend cooperation and support in implementing research activities, and thus meeting expectations. These include regular communication with research partners/book chapter authors; key organizer of Policy Forum; and main coordinator of press conference. They played a key role in identifying and inviting high-level policymakers, government officials, non-government organizations, and key stakeholders who influence policymaking process and decisions of Philippine agriculture.

Similarly, book authors from De La Salle University, UP Diliman and Los Banos, and World Agroforestry-Philippines maintain collaboration through regular correspondence in finalizing and presenting their respective chapters during the Research Symposium.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: This research study will be completed by December 2016. It is expected that regular and open communication will be maintained in implementing the final activities of this project. As reported in November 2015 P&R, it is necessary to carry out visits to the country for face-to-face discussions with all partners particularly with NEDA on sensitive issues like budget and how to strategize and conduct the activities given the current level of resources.

3. Locations

Project level	Latitude	Longitude	Name
Country	Not applicable	Not applicable	Philippines

4. Outcomes

4.1 Project outcome narrative

Project outcome statement
Project outputs will influence the development or promote food security policies and support national, regional and provincial institutions working on climate-smart agriculture (CSA) in the Philippines. Annual investment allocated for the implementation and application of climate-smart adaptation strategies/technologies and food security policies at the national and local government levels will be enhanced. Through the strong partnership with NEDA, the planned activities and expected outputs of the research can be implemented at the national and sub-national levels.

Project results could be used to enhance climate change-related strategies in the Medium-term Philippine Development Plan and National Climate Change Action Plan that influence the development of related Executive Orders, and provide guidance in budget allocation for national agencies on climate change-related activities.

Capacity and skills of government staff and other interested parties will be strengthened through trainings on proper use of tools and models, and the model given in the end.

Annual progress towards outcome (end of 2015): At the end of 2015, it is anticipated the generation of knowledge-bank through documentation of the status of Philippine agriculture and the impacts of climate change including effects on women and men farmers (Project Note 1); adaptation strategies, technologies and practices encompassing gender-differentiated approaches to combat the detrimental effects of climate change as well as government priorities for agriculture (Project Note 2); economic impact of climate change (Project Note 3); and status of investment, environment, natural resources and other policies affecting agriculture and food security in the Philippines (Project Note 4). Information on recommended sub-national climate-smart adaptation practices, technologies and strategies, and impacts of selected investment strategies and policies for agricultural growth, climate resilience and food security in the Philippines will be presented during the mid-term project workshop and published as Project Policy Notes 1 and 2 respectively. As an initial information-dissemination strategy, the Project Inception Workshop Report highlighting the importance and objectives of this research, activities and implementation strategies through partnerships with NEDA and other national agencies, international research organizations and the academe as well as the existing documented data and information on Philippine agriculture and climate change was posted online in September 2014.

Furthermore, the book on "The Future of Philippine Agriculture: Scenarios, Policies, and Investments under Climate Change" will be published and launched during the Stakeholders/Policy Forum Workshop before the end of 2015. A Project Workshop Report

including Power point presentations will be made available publicly through online posting in IFPRI, NEDA and CCAFS websites. It is expected that dissemination of these outputs will increase the awareness of the governments, private sector, and the general public through workshops, policy dialogues and other media materials.

Annual progress towards project outcome in the current reporting cycle (2015): The successful implementation of the Policy Forum, Research Symposium and press conference on September 18-19, 2015, Manila, Philippines were the highlights in 2015. These served as avenues on information dissemination regarding recommended climate-smart adaptation practices, technologies and strategies, and impacts of selected investment strategies and policies on agricultural growth, climate resilience and food security in the Philippines. Participants ranged from high-level policymakers, government officials, NGOs, national and international research centers, academia, private sector, and development agencies, and media. Philippine Climate Change Commissioner under the Office of the President gave the keynote opening message and the Senator who leads the committee on agriculture and food offered some comments. Both policymakers expressed their appreciation for sharing the research outputs and how these will be useful in helping their respective mandate to better understand the climate issues and the potential adaptation strategies to alleviate the impacts of climate change in the Philippine agriculture sector. Socio-Economic Planning Secretary and NEDA Director-General stressed that modeling results are critical information that will provide guidance on appropriate investment policies for Medium-Term Philippine Development and National Climate Change Action Plans. These Plans will influence the development of related Executive Orders and offer recommendation in budget allocation for national agencies on climate change-related activities. Media releases through newsprint, blogs, and postings on IFPRI, NEDA and CCAFS websites were beneficial to the general public in understanding the climate issues affecting the agriculture sector and in turn the national economy and food security in the Philippines. IFPRI, NEDA and CCAFS held several rounds of teleconferences to discuss dissemination strategies and ensure involvement and responsibility of each agency.

The huge budget cut in 2015 to 2016 has seriously impacted the activities (trainings) and deliverables (workshop report, training manuals, databases, project notes). These will be cancelled due to lack of funds.

Communication and engagement activities have contributed to achieving your Project outcomes: The Policy Forum and Research Symposium, press conference and media releases through newsprint, blogs, and postings on IFPRI, NEDA and CCAFS websites served as highly successful pathways in disseminating general information, research outputs, and key messages of this project. As mentioned above, IFPRI, NEDA and CCAFS had several rounds of teleconferences on dissemination strategies.

The Policy Forum and Research Symposium Report including Powerpoint presentations is planned to be made publicly available in IFPRI, NEDA and CCAFS websites. However significant budget cuts in 2015-2016 prevent the completion of this deliverable.

Evidence documents of progress towards outcomes: CCAFS-PIM-IFPRI-NEDA Policy Notes.zip

Annual progress towards outcome (end of 2016): At the end of 2016, the capacity of government staff will be strengthened through trainings in economic modeling encompassing analysis and interpretation of results translating these into language useful and cognizant to the policymakers, policy analysts and decisionmakers. A database constructed for data storage will be managed with NEDA as the main custodian. Project Training Manuals on economic modeling and policy analysis will be produced and distributed to the partners as part of the capacity strengthening activities.

Annual progress towards outcome (end of 2017): At the end of 2017, knowledge products (Project Notes; Project Policy Notes; book; Workshop Reports; Training Manuals) are being considered by policymakers, policy analysts and decisionmakers in support or improvement of national plans on climate change and agriculture, related national policies and acts, and executive orders.

Strengthened capacity of NEDA and other agencies at national, regional and provincial levels in the policy analysis arena will benefit the development or review of these national acts and other related policies.

Annual progress towards outcome (end of 2018): Similar to 2017, it is anticipated that NEDA and other national agencies like DA, DENR at the national, regional, provincial and local levels have attained confidence and improved capacity in the development, support or review of national development plans, policies, acts or executive orders related to climate change, agriculture and other natural resources.

Lessons regarding your Theory of Change and implications for the coming planning cycle; e.g. how have your assumptions changed, or do you have stronger evidence for them: It was assumed that this three-year research project will have full funding until final year (2016). During first year of implementation (2014), the project was designed with four main activities at full budget costs. However the huge budget cut in 2015-2016 had serious implications in carrying out the Knowledge Management activity. Specifically, the following sub-activities and deliverables were withdrawn: 1) technology transfer (CGE modeling training and manual development); and 2) information, education and communications (development and dissemination of Project Notes). These will no longer be implemented during the final year of the project. Database development is under review.

4.2 Contribution to CCAFS Outcomes

RP SEA - Outcome 2019: Policy makers enhancing the design, investment decisions, implementation and monitoring and evaluation of agro - sectoral climate change policies through a transparent, coordinative and consultative mode from local to national level.

Indicator #1: FP4 Indicator: # of equitable national/subnational food system policies enacted that take into consideration climate smart practices and strategies

2019	
Target value: 3-4	**Cumulative target to date:** Cannot be Calculated

2019
Target narrative: Revisit and revise, as appropriate, the Medium-term Philippine Development Plan, National Climate Change Action Plan, and Executive Orders at the national level to ensure addressing climate change, inclusion of climate-smart agriculture technologies and adaptation practices, and implement rules and regulations through local ordinances at the community levels. Note that the target is the same across activities, as agreed with CCAFS during the CCAFS-SEA Regional Workshop in Bangkok, Thailand.
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>

2015		
Target value: 1	**Cumulative target to date:** 1	**Target achieved:** 1.0
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: During the Policy Forum, the Socio-Economic Planning Secretary and NEDA Director-General emphasized that modeling results are critical information that will provide guidance on appropriate investment policies for Medium-Term Philippine Development and National Climate Change Action Plans. These plans will influence the development of related Executive Orders and offer recommendation in budget allocation for national agencies on climate change-related activities. To date, the Philippine government is reviewing their Plans and we anticipate that the project recommendations on investments will be considered to ensure agriculture sustainability and improved food security.		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: Not achieved yet. It is anticipated that the upcoming book with a chapter on gendered adaptation strategies will influence the policymakers of the Philippine government after 2016 and beyond.		

2016	
Target value: 3	**Cumulative target to date:** 4
Target narrative: Revisit and revise, as appropriate, the Medium-term Philippine Development Plan, National Climate Change Action Plan, and Executive Orders at the national level to ensure addressing climate change, inclusion of climate-smart agriculture technologies and adaptation practices, and implement rules and regulations through local ordinances at the community levels. Note that the target is the same across activities, as agreed with CCAFS during the CCAFS-SEA Regional Workshop in Bangkok, Thailand in 2014.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: The project works on national and sub-national (regional) levels. Regions in the Philippines are disaggregated mostly along cultural, ethnic, and language (dialect) lines. Hence cultural differentiation is implicit along with the sub-national (regional) disaggregation of the project. The focus of the project is on the agriculture sector which makes rural-urban differentiation also implicit. In addition, the project intends to gender-differentiate the climate adaptation technologies as described in a book chapter. .	

2014		
Target value: 0	**Cumulative target to date:** 0	**Target achieved:** <Not defined>
Target narrative: None achieved yet. It is anticipated that the project recommendations will influence the Philippine government decisionmakers after the project in 2016 and beyond.		
Narrative for your achieved targets, including evidence: <Not defined>		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: None achieved yet.		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>		

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways: <Not defined>

Collaborating with other CRPs: <Not defined>

4.4 Outcome case studies

There is not an Outcome Case Study added.

5. Project outputs

5.1 Overview by MOGs

Major Output groups - 2019
FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues **Brief bullet points of your expected annual 2019 contribution towards the selected MOG** <Not defined> **Brief plan of the gender and social inclusion dimension of the expected annual output** <Not defined>
FP4 - MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios **Brief bullet points of your expected annual 2019 contribution towards the selected MOG** <Not defined> **Brief plan of the gender and social inclusion dimension of the expected annual output** <Not defined>

Major Output groups - 2014
FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues **Brief bullet points of your expected annual 2014 contribution towards the selected MOG** <Not defined> **Brief summary of your actual 2014 contribution towards the selected MOG:** <Not defined> **Brief plan of the gender and social inclusion dimension of the expected annual output** <Not defined> **Summary of the gender and social inclusion dimension of the 2014 outputs:** <Not defined>

FP4 - MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios

Brief bullet points of your expected annual 2014 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2014 contribution towards the selected MOG:
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2014 outputs:
<Not defined>

Major Output groups - 2015

FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2015 contribution towards the selected MOG:
The successful completion of the Policy Forum and Research Symposium on September 18-19, 2015, in Manila, Philippines served as the science-policy dialogue where the modeling scenarios and outputs were presented and deliberated. This Forum was participated by high-level policymakers, government and NGOs, international research organizations, and other key stakeholders.

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2015 outputs:
Vulnerability, gendered-differentiated responses, and gendered adaptation technologies to climate change were presented during the Policy Forum and Research Symposium as well as discussed as one specific chapter in the upcoming book on “The Future of Philippine Agriculture: Scenarios, Policies, and Investments under Climate Change”.

FP4 - MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2015 contribution towards the selected MOG:
Modeling scenarios and outputs were presented during the Policy Forum/Symposium. Impacts of climate change in agriculture and eventually on the economy and food security were deliberated and potential adaptation strategies to alleviate these impacts presented. Participants included high-level policymakers, government and NGOs, international/national research organizations, and other key stakeholders.

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2015 outputs:
Vulnerability, gendered-differentiated responses, and gendered adaptation technologies to climate change were presented during the Policy Forum and Research Symposium as well as discussed as one specific chapter in the upcoming book on “The Future of Philippine Agriculture: Scenarios, Policies, and Investments under Climate Change”.

Major Output groups - 2016

FP4 - MOG # 1: Improved national planning processes through policy analyses, (re)formulation and implementation; and stakeholder analyses and engagement through scenarios, learning alliances and science-policy dialogues

Brief bullet points of your expected annual 2016 contribution towards the selected MOG
- Consultations with NEDA and other national agencies will be maintained throughout 2016 specifically discussions on government documents such as the Medium Term Plan and other related climate change and food security policies to ensure inclusion of CSA technologies

Brief plan of the gender and social inclusion dimension of the expected annual output
Gendered adaptation technologies to climate change were presented and discussed as one specific chapter in the book

FP4 - MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios

Brief bullet points of your expected annual 2016 contribution towards the selected MOG
Economic modeling trainings on the use and application of International Model for Policy Analysis of Agricultural Commodities and Trade (IMPACT) and Computable General Equilibrium (CGE) models including analyses and interpretation of model outputs, investment options and policy scenarios will strengthen the capacity of the government staff and other interested parties.

Brief plan of the gender and social inclusion dimension of the expected annual output
It is anticipated that government staff at the national, regional and provincial levels will include both men and women as trainees.

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: As mentioned earlier, the significant budget cut experienced by this research project in 2015-2016 are preventing to carry out some of the technology transfer (specifically CGE model training and manual development) while the development and management of database, the development and dissemination of Project Notes and stakeholders workshop report are being considered or under review given current budget allocation.

5.2 Deliverables

Deliverable #1

Main Information	
Title: Project Notes and Project Policy Note	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Working paper
Year of expected completion: 2015	
Status: Complete	

Next-user
DA; DENR; Climate Change Commission; and other relevant policymakers (Congressmen and Senators who are involved in the agriculture sector)
Knowledge, attitude, skills and practice changes expected in next-user: Information generated from existing and potential climate change adaptation strategies in agriculture and synthesis of gender-differentiated adaptation responses in Philippine agriculture sector considered by government in review of current national plans and strategies for agriculture sector. Costs of climate change will improve knowledge on economic impacts of climate change.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Disseminate baseline information on agriculture and climate change and adoption of CSA and adaptation technologies include packaging materials in layman form and sharing this information through dialogues and meetings with government officials at the national, regional, provincial or local levels in partnership with NEDA and other local agencies whenever possible.

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Balisacan, Arsenio <AMBalisacan@neda.gov.ph>, NEDA - National Economic and Development Authority
Partner #3: Sombilla, Merceditas A. <MASombilla@neda.gov.ph>, NEDA - National Economic and Development Authority

Deliverable Ranking	
Address gender and social inclusion aspect	2
Potential for/ actual contribution to outcomes	5

Level of shared ownership (partnerships across org.)	5
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Yes
License adopted: <Not defined>
Dissemination Channel: other
Dissemination URL: http://www.ifpri.org/publication/economywide-impacts-climate-change-philippine-agriculture

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #2

Main Information	
Title: Project Note and Project Policy Note	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Working paper
Year of expected completion: 2015	
Status: Complete	

Next-user
DBM; DA; DENR; CCC; other relevant policymakers (Congress and Senators who are involved in the agriculture sector)
Knowledge, attitude, skills and practice changes expected in next-user: Philippine government will review investment portfolios and environment and natural resource policies and other policies to support the development of CS agricultural technologies. These will be utilized in evaluating investments and policies in light of welfare and food security indicators to 2030 and 2050 under different climate scenarios/alternative futures.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Information will be shared and equip government officials/policymakers on development, investment, and ENR policies to prepare for climate resilient agriculture and enhanced food security. Knowledge sharing via meetings and dialogues will be utilized to ensure engagement of government agencies on CS agricultural technologies/strategies, with NEDA and other national agencies

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Balisacan, Arsenio <AMBalisacan@neda.gov.ph>, NEDA - National Economic and Development Authority
Partner #3: Sombilla, Merceditas A. <MASombilla@neda.gov.ph>, NEDA - National Economic and Development Authority

Deliverable Ranking	
Address gender and social inclusion aspect	2
Potential for/ actual contribution to outcomes	5
Level of shared ownership (partnerships across org.)	5
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Yes
License adopted: <Not defined>
Dissemination Channel: other
Dissemination URL: http://www.ifpri.org/publication/agricultural-growth-and-climate-resilience-philippines-subnational-impacts-selected

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #3

Main Information	
Title: Project Inception Workshop Report	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2014	
Status: Complete	

Next-user
1. Policymakers: NEDA staff; 2. Researchers: Academic authors (consultants affiliated with DLSU; UPD; University of the Philippines Los Banos)
Knowledge, attitude, skills and practice changes expected in next-user: This Workshop report highlights the objectives, role of each partner, implementation strategies, deliverables and timelines of the project. It is expected that the Philippine government was informed about this research activity focusing on the agriculture sector in the Philippines through NEDA.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement and knowledge sharing through the inception workshop will promote the cooperation of NEDA and academic authors (De La Salle State University, University of the Philippines Diliman, University of the Philippines Los Banos) in the implementation of the project activities.

Submitted on 2016-03-02 at 21:26 UTC

Partners contributing to this deliverable
Partner #1 (Responsible): Sombilla, Merceditas A. <MASombilla@neda.gov.ph>, NEDA - National Economic and Development Authority
Partner #2: Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	4
Potential for/ actual contribution to outcomes	5
Level of shared ownership (partnerships across org.)	5
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Yes
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #4

Main Information

Title: The book “The Future of Philippine Agriculture: Scenarios, Policies, and Investments under Climate Change”

MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios

Main Type: Peer reviewed Publications	**Sub Type:** Books
Year of expected completion: 2016	
Status: On-going	**Justification for cancelling the deliverable:** Book chapters being edited and finalized; other sections under development.

Next-user

DA; DENR; CCC; policymakers (in agriculture); DBP; ACPC; PCI; research (DOST; DAR); private sector; NGOs, civil society, interested groups; academe

Knowledge, attitude, skills and practice changes expected in next-user: Book will provide information to improve knowledge/skills of policymakers, government agencies, and researchers to support evidence in evaluation/promotion of CSA technologies and related development policies. Continuous dialogue with government and private sector will encourage public-private partnership in development and promotion of CS technologies for resilient agriculture and enhanced food security.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Publish outputs of Activities I-III and combine them with advocacy-oriented activities and materials - to inform general public and government officials/policymakers , about CS technologies/strategies and policies directly/indirectly affecting agriculture to prepare for climate resilient agriculture sector and assured food security. Outputs available at IFPRI’s, NEDA’s national/regional websites.

Partners contributing to this deliverable

Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Partner #2: Balisacan, Arsenio <AMBalisacan@neda.gov.ph>, NEDA - National Economic and Development Authority

Partner #3: Sombilla, Merceditas A. <MASombilla@neda.gov.ph>, NEDA - National Economic and Development Authority

Partner #4: Mendoza, Maria Emilinda <makilinggazer@gmail.com>, UPLB - University of the Philippines Los Baños

Partner #5: Ravago, Majah-Leah <mvravago@econ.upd.edu.ph>, UPD - University of the Philippines - Diliman

Partner #6: Sajise, Asa <asajise@yahoo.com>, UPLB - University of the Philippines Los Baños

Partner #7: Inocencio, Arlene <arlene.inocencio@dlsu.edu.ph>, DLSU - De La Salle University

Partner #8: Tiongco, Marites <marites.tiongco@dlsu.edu.ph>, DLSU - De La Salle University

Partner #9: Lasco, Rodel <r.lasco@cgiar.org>, ICRAF - World Agroforestry Centre
Partner #10: Lansigan, Felino P. <fplansigan@yahoo.com>, UPLB - University of the Philippines Los Baños

Deliverable Ranking	
Address gender and social inclusion aspect	4
Potential for/ actual contribution to outcomes	5
Level of shared ownership (partnerships across org.)	5
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Yes
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #5

Main Information
Title: Model outputs from fully calibrated and validated crop (DSSAT; WaNuLCAS) and economic (IMPACT; CGE) models

MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios

Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Data
Year of expected completion: 2015	
Status: Complete	

Next-user

Agriculture, Natural Resources and Environment Staff of National Economic and Development Authority (ANRES-NEDA) and local government units from NEDA-regional offices

Knowledge, attitude, skills and practice changes expected in next-user: It is expected that NEDA-ANRES and LGUs will utilize the information generated from the calibrated and validated crop and economic models as the basis in supporting or re-designing policies and investment priorities to prepare for and develop a climate resilient agriculture sector and enhanced food security.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing via meetings will be utilized to ensure engagement of ANRES-NEDA and LGUs in the analysis of climate-smart agricultural technologies and strategies.

Partners contributing to this deliverable

Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking

Address gender and social inclusion aspect	2
Potential for/ actual contribution to outcomes	5
Level of shared ownership (partnerships across org.)	5
What is your personal perspective of the importance of this product	5

Deliverable dissemination

Open access restriction: Limited Exclusivity Agreements

License adopted: <Not defined>

Dissemination Channel: -1

Dissemination URL: <Not defined>

Deliverable Metadata

Description: <Not defined>

Creator / Authors: <Not defined>

Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #6

Main Information	
Title: Fully calibrated, validated, and linked crop and economic models for policy analyses of investment, policies	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Models
Year of expected completion: 2015	
Status: Complete	

Next-user
ANRES-NEDA and LGUs (NEDA-regional development offices)
Knowledge, attitude, skills and practice changes expected in next-user: It is expected that NEDA-ANRES and LGUs will utilize the information generated from the calibrated and validated crop and economic models as the basis in supporting or re-designing environment, natural resource policies and investment priorities to prepare for and develop a climate resilient agriculture sector and enhanced food security.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing via meetings will be utilized to ensure engagement of ANRES-NEDA and LGUs in the analysis of climate-smart agricultural technologies and strategies.

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	2
Potential for/ actual contribution to outcomes	5
Level of shared ownership (partnerships across org.)	5
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Limited Exclusivity Agreements
License adopted: <Not defined>
Dissemination Channel: -1
Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #7

Main Information
Title: Project Stakeholders Workshop Report

MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Reports, Reference Materials and Other Papers	**Sub Type:** Research report
Year of expected completion: 2016	
Status: On-going	**Justification for cancelling the deliverable:** This report is under review and for consideration given current budget situation in 2015-2016.

Next-user

1. Policymakers: DA; DENR; CCC; relevant policymakers (Congress, Senators involved in agriculture sector); DBP; ACPC; PCI; 2. Researchers: DOST; DAR

Knowledge, attitude, skills and practice changes expected in next-user: It is envisioned that the workshop report will encourage the users in understanding the impacts of climate change, the costs of climate change in the agriculture sector; the climate-smart adaptation strategies including women-friendly technologies; and the supporting agricultural policies and other related policies to alleviate the effects of climate change.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Facilitation, engagement and knowledge sharing will all be applied during the implementation of the Workshop.

Partners contributing to this deliverable

Partner #1 (Responsible): Sombilla, Merceditas A. <MASombilla@neda.gov.ph>, NEDA - National Economic and Development Authority

Partner #2: Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking

Address gender and social inclusion aspect	4
Potential for/ actual contribution to outcomes	5
Level of shared ownership (partnerships across org.)	5
What is your personal perspective of the importance of this product	5

Deliverable dissemination

Open access restriction: Yes

License adopted: <Not defined>

Dissemination Channel: -1

Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #8

Main Information	
Title: Project Training Manuals	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Data and information outputs, including datasets, databases and models	**Sub Type:** Models
Year of expected completion: 2016	
Status: On-going	**Justification for cancelling the deliverable:** IMPACT training and manual - to be carried out and distributed in January 2016 CGE training and manual - under review given current budget situation in 2015-2016

Next-user
Policymakers: ANRES-NEDA; DA; Department of Environment and Natural Resources (DENR); Climate Change Commission (CCC); and LGUs (regional development offices)
Knowledge, attitude, skills and practice changes expected in next-user: Training, transfer on use of IMPACT, CGE to national and sub-national agencies will increase capacity of government agencies in crop/economic modeling. This will empower government agencies in evaluation of national policies and encourage prioritization of policies and development strategies to promote adoption of CS technologies to stimulate economic growth.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Transfer analytical tools and technology developed to NEDA and other government offices through training workshops. This will better equip government staff as they extend advice/policy-support about CS technologies, strategies/policies, as they design and enact policies and investment priorities to prepare for climate resilient agriculture sector and assured food security

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute

Deliverable Ranking	
Address gender and social inclusion aspect	3
Potential for/ actual contribution to outcomes	4
Level of shared ownership (partnerships across org.)	5
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Yes
License adopted: <Not defined>
Dissemination Channel: other
Dissemination URL: http://www.ifpri.org/program/impact-model

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

Deliverable #9

Main Information	
Title: Press/Media release of Project Notes, Project Policy Notes and the book	
MOG # 2: Priority setting contextualised with national stakeholders and capacity strengthened to apply outputs in policy formulation; including trade-off analyses, foresight activities, and quantification of regional socio-economic scenarios	
Main Type: Communication Products and Multimedia	**Sub Type:** Articles for media or news
Year of expected completion: 2016	
Status: On-going	**Justification for cancelling the deliverable:** Book - Book chapters are currently being edited and finalized; other sections of the book under development. Policy Notes - These were disseminated during the Policy Forum and posted online in IFPRI, NEDA and CCAFS websites in September 2015. Project Notes - Under review and consideration given budget situation in 2015-2016.

Next-user
1. Policymakers:DA; DENR. CCC; other policymakers (Congress, Senators involved in agriculture sector); DBP; ACPC; PCI; 2. Researchers: DOST; DAR
Knowledge, attitude, skills and practice changes expected in next-user: Publication of outputs of Activities I-III combined with advocacy-oriented activities/materials will inform general public and government officials and policymakers about CS technologies/strategies/policies directly/indirectly affecting agriculture. Project outputs will be made available at IFPRI's website, NEDA's national and regional websites, and NEDA's mailing and distribution lists.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Detailed information from technical outputs will be presented during policy dialogues and other media releases as avenues to inform government, private sector and general public on status of Philippine agriculture, the impacts of climate change and the benefits of adopting climate-smart technologies for a resilient agriculture and enhanced food security.

Partners contributing to this deliverable
Partner #1 (Responsible): Rosegrant, Mark <m.rosegrant@cgiar.org>, IFPRI - International Food Policy Research Institute
Partner #2: Balisacan, Arsenio <AMBalisacan@neda.gov.ph>, NEDA - National Economic and Development Authority
Partner #3: Sombilla, Merceditas A. <MASombilla@neda.gov.ph>, NEDA - National Economic and Development Authority

Submitted on 2016-03-02 at 21:26 UTC

Deliverable Ranking	
Address gender and social inclusion aspect	4
Potential for/ actual contribution to outcomes	5
Level of shared ownership (partnerships across org.)	4
What is your personal perspective of the importance of this product	5

Deliverable dissemination
Open access restriction: Yes
License adopted: <Not defined>
Dissemination Channel: other
Dissemination URL: http://www.ifpri.org/publication/economywide-impacts-climate-change-philippine-agriculture; http://www.ifpri.org/publication/agricultural-growth-and-climate-resilience-philippines-subnational-impacts-selected

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

5.3 Summary on next-users

Next user #1
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: NEDA, development planners and policymakers are the key next users during the reporting period. The presentation of the modeling scenarios and outputs during the Policy Forum and Research Symposium increase the awareness of the key next users, general audience and other stakeholders on the status and potentials of the Philippine agriculture sector to boost the country's economy, and the benefits of applying climate-smart adaptation practices and technologies to combat the ill-effects of climate change. In fact, the Socio-economic Planning Secretary and NEDA's Director General emphasized the need to improve agricultural research and development to prepare the Philippine agriculture sector to the integration of South East Asian countries (please refer to http://www.rappler.com/business/industries/247-agriculture/106355-neda-pushes-policy-reforms-agriculture for details), a direct policy recommendation presented during the Forum. In addition, the development and distribution of Policy Notes 1 and 2 (http://www.ifpri.org/publication/economywide-impacts-climate-change-philippine-agriculture and http://www.ifpri.org/publication/agricultural-growth-and-climate-resilience-philippines-subnational-impacts-selected, respectively) provide detailed information on socioeconomic impacts of climate change as well as investment strategies for Philippine agriculture. Changes in knowledge, attitude, skills and practice are not yet observed during the reporting period. Rather, it is anticipated that the project recommendations will influence the Philippine government decisionmakers in 2016 and beyond.
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: Regular and informal meetings with NEDA and other partners, open deliberations during the Policy Forum and Research Symposium, and the press conference with the media are strategies on knowledge sharing and engagement of stakeholders. Event announcements made through IFPRI, NEDA and CCAFS websites as well as twitter and blogs during the Forum are useful avenues in information dissemination.
Reported deliverables serve as evidence towards this achieved change: - Mark W. Rosegrant, Nicostrato D. Perez, Angga Pradesha, Timothy S. Thomas. 2015. Policy Note 1. The economywide impacts of climate change on Philippine agriculture. http://www.ifpri.org/publication/economywide-impacts-climate-change-philippine-agriculture - Timothy S. Thomas, Angga Pradesha, Nicostrato D. Perez. 2015. Policy Note 2. Agricultural growth and climate resilience in the Philippines: Subnational impacts of selected investment strategies and policies http://www.ifpri.org/publication/agricultural-growth-and-climate-resilience-philippines-subnational-impacts-selected
Lessons and implications for the next planning cycle: It is important to maintain regular and open communications with NEDA, other partners and key stakeholders particularly the policymakers during the last year of the project. Science-based information, data and policy recommendations presented in the upcoming book and Policy Notes are critical for consideration, improvement and adoption in the Medium-term Philippine Development Plan and National Climate Change Action Plan that influence the development of related Executive Orders to ensure climate resilience of the Philippine agriculture sector and provide guidance in budget allocation for national agencies on climate change-related activities. Without sufficient budget, it will be difficult to sustain this approach.

5.4 Project highlights

6. Activities

Activity #1	
Title: Scenario-Building and Food Policy Analyses I - Climate Change on Agriculture and Adaptation Strategies/Technologies	
Description: The impact of climate change on Philippine agriculture has not been adequately measured and quantified. This major activity of the project intends to do that by developing and using appropriate analytic tools for analyzing the effects of climate change. These analytic tools would also be used in the cursory identification and evaluation of climate-smart adaptation strategies/technologies. Results of this Activity will serve to inform the general public, farmers and other stakeholders; and equip government officials and policymakers about climate-smart strategies and adaptation technologies in the design of policies and investment priorities to prepare the country and to develop a climate resilient agriculture sector and assured food security.	
Start date (dd-MM-yyyy): 01-03-2014	**End date (dd-MM-yyyy):** 31-12-2015
Leader: Valmonte-Santos, Rowena <R.VALMONTE-SANTOS@CGIAR.ORG>, IFPRI - International Food Policy Research Institute	
Status: Complete	

Activity #2	
Title: Scenario-Building and Food Policy Analyses II - Policy Analyses, Investment, Environment/Natural Resource, Policies	
Description: Other than climate change adaptation strategies/technologies in agriculture, there are other policies that the government and private sectors can employ to mitigate the impact of climate, like investment in irrigation, population and income growth policies, trade policies, rice self-sufficiency, etc. This activity can extend the use of the analytic tools developed in Activity I in analyzing other development, investment, and environment and natural resource policies that are directly or indirectly affecting agriculture and food security. Materials resulting from this activity can complement the results in Activity 1 in informing the general public and equip government officials and policymakers in particular, as they design policies and investment priorities related to climate change, agriculture and food security.	
Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-12-2015
Leader: Valmonte-Santos, Rowena <R.VALMONTE-SANTOS@CGIAR.ORG>, IFPRI - International Food Policy Research Institute	
Status: Complete	

Activity #3
Title: Knowledge Management I - Capacity-Strengthening (Workshops, Technology Transfer, Training), Database Management of Adaptation Technologies/ Strategies

Description: One major indicator of the sustainability of the project is the ability of beneficiaries and local partners to continue the functions and follow-through the objectives of the project until the intended outcomes and impacts are achieved - long after the end of the project. Activity 3 is aimed at project sustainability by transferring the skills and the analytical tools and technology developed in the the project to the national and regional agencies policy analysts, and advisers of government officials and policymakers through training workshops and other capacity strengthening activities. This will better equip the government staff as they continue to advise and give policy-support to government officials and policymakers about climate-smart technologies and strategies and policies. Another skill that will be developed in the project which can be transferred and used in other activities is the gender-differentiated climate change adaptation technologies.

Start date (dd-MM-yyyy): 01-03-2014	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Valmonte-Santos, Rowena <R.VALMONTE-SANTOS@CGIAR.ORG>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** IMPACT training will be carried out in January 2016 together with the distribution of training manual. CGE model training and development of manual, database management and project stakeholders workshop report are under consideration given current budget situation.

Activity #4

Title: Knowledge Management II - Information, Education and Communication (IEC) and Advocacy

Description: Activity 4 is in recognition that (a) the production and publication of project outputs/materials is a major activity in itself that requires substantial resources and separate budget, and that (b) advocacy activities and materials may be required in this kind of project and expected outcomes and impacts. This activity therefore, is set to publish the outputs of Activities I-III and to combine them with advocacy-oriented activities and materials - to inform the general public and the government officials and policymakers in particular, in a timely manner, about climate-smart technologies and strategies and policies directly/indirectly affecting agriculture, as they discuss, deliberate, and design policies and investment priorities to prepare for a climate resilient agriculture sector and assured food security. Project outputs and advocacy materials will be made available at IFPRI's website, NEDA's national and regional websites, and NEDA's mailing and distribution lists, and if possible local media outlets.

Start date (dd-MM-yyyy): 01-01-2015	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Valmonte-Santos, Rowena <R.VALMONTE-SANTOS@CGIAR.ORG>, IFPRI - International Food Policy Research Institute	
Status: On-going	**Justification:** Book chapters being edited and finalized; other sections under development Policy Notes disseminated during the Policy Forum and posted online in IFPRI, NEDA and CCAFS websites. Project Notes under consideration given current budget situation.

Activity #5

Title: (BILATERAL) Addressing the Impacts of Climate Change in the Philippine Agriculture Sector

Submitted on 2016-03-02 at 21:26 UTC

Description: This activity is implemented in collaboration with NEDA to ensure inclusion of climate-smart technologies for the agriculture sector and enhanced food security for the Philippines. It also contributes to the implementation of Activities I to IV mentioned earlier.	
Start date (dd-MM-yyyy): 01-03-2014	**End date (dd-MM-yyyy):** 31-12-2016
Leader: Valmonte-Santos, Rowena <R.VALMONTE-SANTOS@CGIAR.ORG>, IFPRI - International Food Policy Research Institute	
Status: Complete	

Lessons regarding your project activities and possible implications for the coming planning cycle: This research project has four main activities: climate change on agriculture and adaptation strategies/technologies; policy analyses, investment, environment/natural resource; capacity-strengthening, database management; and information, education and communication. Modeling tools, scenarios and modeling outputs, among others, were presented during the Forum. Policy notes were prepared to offer details of the impacts of climate change on agriculture sector and potentials of climate-smart adaptation strategies/technologies. Costs and effects of climate change on Philippine agriculture, economy, investment priorities, and policies influencing directly or indirectly food security were likewise provided. Additional statistics and evidence including past and future trends of the agriculture sector vis-à-vis climate parameters, impacts on land-use, water resources, agricultural sustainability, gendered-adaptation technologies, risks and vulnerability will be imparted in the upcoming book.

Project notes, CGE model training and manual, database management, and the policy forum workshop report including Power point presentations are under review given considerable cut in budget during 2015-2016.

7. Leverages

<Not defined>

Submitted on 2016-03-03 at 21:57 UTC

BILATERAL W3_ONLY

Title: Small farmer adaptation and mitigation to climate change in Africa: Enhancing small farmer incomes and productivity/implementation phase.

Start date (dd-MM-yyyy)	01-01-2012	**End date (dd-MM-yyyy)**	30-06-2015
Management liaison	F1 - Flagship 1	**Mgmt. liaison contact**	Zougmore, Robert <R.Zougmore@cgiar.org>
Lead organization	IFPRI - International Food Policy Research Institute - United States	**Project leader**	Msangi, Siwa <s.msangi@cgiar.org>
Project type	BILATERAL	**Bilateral Contract/ Proposal**	<Not defined>

Project is working on

Flaship(s)	Region(s)
FP1: Climate-smart practices	RP WA: West Africa

Core project(s) contributing to this project

This project does not have Core projects

Summary

The main objectives of the project are to identify and estimate small-holder vulnerability to climatic variability and long-term change in Senegal, and to design efficient and sustainable adaptation strategies that can offset the impacts on farm-level productivity, incomes, food security and poverty. The focus of the research is on the socio-economic impacts of climate change and the economic costs of adjustment and adaptation. The end product of the is a concrete set of adaptation guidelines that can be implemented at the level of national budgeting and strategy, or applied by national agricultural extension officers can use in their interactions with farmers.

2. Partners

Partner #1 (Leader)

Institution: IFPRI - International Food Policy Research Institute

Contacts

Type	Contact	Responsibilities and contributions
Project Leader	Msangi, Siwa <s.msangi@cgiar.org>	Activity 2014-410 *Leader*.

Partner #2

Institution: ISRA - Institut Senegalais de Recherche Agricole

CCAFS Partner(s) allocating budget: <Not defined>

Contacts

Type	Contact	Responsibilities and contributions
Partner	Fall, Sadibou <fallcheickhsadibou@yahoo.fr>	Activity 2014-410 *Partner*.

Partnerships overall performance over the last reporting period: My partners have performed exactly as expected and have facilitated all our in-country activities.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: <Not defined>

3. Locations

Project level	Latitude	Longitude	Name
Country	Not applicable	Not applicable	Senegal

4. Outcomes

4.1 Project outcome narrative

Project outcome statement
ISRA scientists trained in both economic and biophysical modeling methods that can be applied directly to the project work. Expanded ability of ISRA to analyze useful information and apply it towards the planning and prioritization of needed interventions.

Annual progress towards outcome (end of 2015): More scientists trained in directly-applicable methodologies for analyzing climate change impacts and adaptation potential, and strong influence on country-level dialogue relating to the design of climate-smart agriculture.

Annual progress towards project outcome in the current reporting cycle (2015): Completed planned training of ISRA and other Senegalese scientists in Oct 2015.
Communication and engagement activities have contributed to achieving your Project outcomes: The training we did in Oct 2015 directly contributed to the outcomes of trained local scientists.
Evidence documents of progress towards outcomes: <Not defined>

Annual progress towards outcome (end of 2016): <Not defined>

Annual progress towards outcome (end of 2017): <Not defined>

Annual progress towards outcome (end of 2018): <Not defined>

Lessons regarding your Theory of Change and implications for the coming planning cycle; e.g. how have your assumptions changed, or do you have stronger evidence for them: No lessons so far.

4.2 Contribution to CCAFS Outcomes

RP WA - Outcome 2019: Public (MoAgr, MoLiv, MoEnv, MoRuD, MoPla, NARS) institutions and stakeholders, NGOs use CCAFS decision support tools to prioritize and design national level investments on CSA that will strengthen smallholder farmers adaptive capacity. Local decentralized Gov. services, NGOs and extension services partner to promote and scale up CSVs models using portfolios of CSA technologies and practices for local adaptation planning.

Indicator #1: FP1 Indicator: # of national and subnational development initiatives and public institutions that prioritize and inform project implementation of equitable best bet CSA options using CCAFS science and decision support tools

2019	
Target value: Activity 2014-410: One	**Cumulative target to date:** Cannot be Calculated
Target narrative: Activity 2014-410: As long as we can get ISRA to fully internalize the data analysis and modeling activities that we're applying to this work, we have added very useful capacity for their future growth.	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>	

2015		
Target value: Activity 2014-410: One	**Cumulative target to date:** Cannot be Calculated	**Target achieved:** 1.0
Target narrative: Activity 2014-410: As long as we can get ISRA to fully internalize the data analysis and modeling activities that we're applying to this work, we have added very useful capacity for their future growth.		
Narrative for your achieved targets, including evidence: the training that we did in Oct 2015 has contributed towards the achievement of the goals. A key staff is now undertaking key elements of the analysis.		
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>		
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: we have noted important gender dimensions in our research		

2016	
Target value: <Not defined>	**Cumulative target to date:** Cannot be Calculated
Target narrative: <Not defined>	
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>	

2014		
Target value: <Not defined>	**Cumulative target to date:** 0	**Target achieved:** <Not defined>
Target narrative: <Not defined>		
Narrative for your achieved targets, including evidence: <Not defined>		

2014
The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined>
Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: <Not defined>

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways

Activity 2014-410: We are strengthening the capacity of the national partner to process future information and to apply new methods and approaches to useful prioritization and investment decisions that Senegal will need to engage in.

Collaborating with other CRPs: <Not defined>

4.4 Outcome case studies

There is not an Outcome Case Study added.

5. Project outputs

5.1 Overview by MOGs

Major Output groups - 2019

FP1 - MOG # 2: Biophysical, socio-economical and tradeoffs analyses (incl. enabling environments and gender), innovative methods, engagement approaches and customized decision support tools for CSA prioritization, wide scale adoption, local adaptation and investment planning (LAM, WA, EA, SA, SEA)

Brief bullet points of your expected annual 2019 contribution towards the selected MOG
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Major Output groups - 2014

FP1 - MOG # 2: Biophysical, socio-economical and tradeoffs analyses (incl. enabling environments and gender), innovative methods, engagement approaches and customized decision support tools for CSA prioritization, wide scale adoption, local adaptation and investment planning (LAM, WA, EA, SA, SEA)

Brief bullet points of your expected annual 2014 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2014 contribution towards the selected MOG:
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2014 outputs:
<Not defined>

Major Output groups - 2015

FP1 - MOG # 2: Biophysical, socio-economical and tradeoffs analyses (incl. enabling environments and gender), innovative methods, engagement approaches and customized decision support tools for CSA prioritization, wide scale adoption, local adaptation and investment planning (LAM, WA, EA, SA, SEA)

Brief bullet points of your expected annual 2015 contribution towards the selected MOG
<Not defined>

Brief summary of your actual 2015 contribution towards the selected MOG:
Have accomplished a tradeoff analysis of different adaptation options in Senegal

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Summary of the gender and social inclusion dimension of the 2015 outputs:
We have noted important dimensions of dimension in the extensive pastoralist systems of northern Senegal

Major Output groups - 2016

FP1 - MOG # 2: Biophysical, socio-economical and tradeoffs analyses (incl. enabling environments and gender), innovative methods, engagement approaches and customized decision support tools for CSA prioritization, wide scale adoption, local adaptation and investment planning (LAM, WA, EA, SA, SEA)

Brief bullet points of your expected annual 2016 contribution towards the selected MOG
<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output
<Not defined>

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: <Not defined>

5.2 Deliverables

Deliverable #1

Main Information	
Title: Modeling tools applied to understand the impacts of climatic shocks and the adaptation potential of various household types.	
MOG # 2: Biophysical, socio-economical and tradeoffs analyses (incl. enabling environments and gender), innovative methods, engagement approaches and customized decision support tools for CSA prioritization, wide scale adoption, local adaptation and investment planning (LAM, WA, EA, SA, SEA)	
Main Type: Tools and Computer Software	**Sub Type:** Platforms
Year of expected completion: 2015	
Status: <Not defined>	

Next-user
ISRA
Knowledge, attitude, skills and practice changes expected in next-user: The national partner will be applying the methods used to improving their internal analysis of climate change impacts and adaptation interventions.
Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: There will be a series of one-on-one and group trainings that will be undertaken to enable the users to internalize the methods and approaches being made.

Partners contributing to this deliverable
Partner #1 (Responsible): <Not defined>

Deliverable Ranking	
Address gender and social inclusion aspect	<Not defined>
Potential for/ actual contribution to outcomes	<Not defined>
Level of shared ownership (partnerships across org.)	<Not defined>
What is your personal perspective of the importance of this product	<Not defined>

Deliverable dissemination
Open access restriction: <Not defined>
License adopted: <Not defined>
Dissemination Channel: <Not defined>

Dissemination URL: <Not defined>

Deliverable Metadata
Description: <Not defined>
Creator / Authors: <Not defined>
Author Identifier: <Not defined>
Publication / Creation date: <Not defined>
Language: <Not defined>
Coverage: <Not defined>

Deliverable Data sharing
Deliverable files <Not defined>

5.3 Summary on next-users

Next user #1
Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: ISRA (our partner) is the key next user. the fact that they are taking on the methods we have developed is evidence of practice change.
Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: We have used direct engagement and training.
Reported deliverables serve as evidence towards this achieved change: The training materials we generate contribute towards this.
Lessons and implications for the next planning cycle: none.

5.4 Project highlights

Project highlight Information #1	
Title: Training of local scientists in Senegal	
Author: Siwa Msangi	**Subject:** <Not defined>
Publisher: <Not defined>	**Year:** 2015
Project highlights types Capacity enhancement	
Start date: 2015-10-19	**End date:** 2015-10-23
Is global: No	
Country: Senegal	**Keywords:** <Not defined>
Highlight description: Training of local scientists in economic modeling methods	
Introduction / Objectives: Train scientists in key quantitative modeling methods for analysis of agricultural and natural resource policy	
Results: nearly 40 scientists trained	
Partners: ISRA (Senegalese Institute for Agricultural Research)	
Links / Sources for further information: <Not defined>	

6. Activities

Activity #1	
Title: Economic modeling of crop and livestock.	
Description: Appropriate modeling tools will be applied to understand the impacts of climatic shocks and the adaptation potential of various household types to future climatic changes.	
Start date (dd-MM-yyyy): 01-01-2012	**End date (dd-MM-yyyy):** 30-06-2015
Leader: Msangi, Siwa <s.msangi@cgiar.org>, IFPRI - International Food Policy Research Institute	
Status: Extended	**Justification:** no cost extension to help with dissemination. New end date April 2016.

Lessons regarding your project activities and possible implications for the coming planning cycle: no lessons learned

Submitted on 2016-03-03 at 21:57 UTC

7. Leverages

<Not defined>