

Submitted on 2016-03-03 at 17:42 UTC

CCAFS CORE W1_W2 ONLY

Title: (IWMI - WA) Building climate smart farming systems through integrated water storage and crop-livestock interventions - IWSLIs

| | | | |
|------------------------------------|------------------------------------------------------------|--------------------------------------|--------------------------------------------|
| Start date (dd-MM-yyyy) | 01-01-2015 | End date (dd-MM-yyyy) | 31-12-2018 |
| Management liaison | RP WA - West Africa Region | Mgmt. liaison contact | Zougmore, Robert <R.Zougmore@cgiar.org> |
| Lead organization | IWMI - International Water Management Institute - Ghana | Project leader | Mul, Marloes <m.mul@cgiar.org> |
| Project type | CCAFS CORE | Detailed project workplan | <Not defined> |

Project is working on

| Flaship(s) | Region(s) |
|------------------------------|--------------------|
| FP1: Climate-smart practices | RP WA: West Africa |

Bilateral project(s) contributing to this project

This project does not have Bilateral projects

Summary

Rainfall variability is a critical issue for WA farmers as water is a key limiting resource for crop and livestock production. IWSLIs harvest and store water for crop and livestock. They are evaluated on how they adapt to CC while minimizing contributions to GHG emissions. IWSLIs will increase resilience of farming systems by:

- improving water availability for crops, livestock and humans throughout the year;
- stabilize cash flow from crops and livestock over time; and
- establish a reliable value chain for crops and livestock.

Using on-farm and modeling approaches, the “climate smartness” of alternative IWSLIs will be tested, and adoption and trade-offs will be evaluated. A value chain analysis will identify constraints to market access and opportunities to add value to the commodities. The research will explore socioeconomic, cultural and institutional catalysts and barriers (with an emphasis on gender) that may help or hinder uptake and sustainability, through participatory approaches.

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2. Partners

Partner #1 (Leader)

Institution: IWMI - International Water Management Institute

Contacts

| Type | Contact | Responsibilities and contributions |
|----------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Project Leader | Mul, Marloes <m.mul@cgiar.org> | Activity 2014-185 *Partner*. Activity 2014-186 *Partner*. Activity 2014-187 *Leader*. Activity 2014-188 *Leader*. |
| Partner | Kadyampakeni, Davie <d.kadyampakeni@cgiar.org> | Activity 2014-186 *Leader*. Activity 2014-187 *Partner*. |

Partner #2

Institution: INERA - Institut de l'Environnement et de Recherches Agricoles

CCAFS Partner(s) allocating budget

IWMI - International Water Management Institute - Ghana

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|---------------------------------------------------|----------------------------------------------------------------------------------------------|
| Partner | Bationo Babou, André <babou.bationo@gmail.com> | Activity 2014-185 *Partner*. Activity 2014-186 *Partner*. |
| Partner | Sawadogo, Louis <sawadogo_ls@hotmail.com> | Activity 2014-185 *Partner*. Activity 2014-186 *Partner*. Activity 2014-188 *Partner*. |

Partner #3

Institution: IER - Institut d'Economie Rural

CCAFS Partner(s) allocating budget

IWMI - International Water Management Institute - Ghana

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Contacts

| Type | Contact | Responsibilities and contributions |
|---------|-----------------------------------------|--------------------------------------------------------------|
| Partner | Traore, Kalifa <ibosimon_1@yahoo.fr> | Activity 2014-185 *Partner*. Activity 2014-188 *Partner*. |
| Partner | Dembele, Daouda <daoudad91@yahoo.fr> | Activity 2014-185 *Partner*. Activity 2014-186 *Partner*. |

Partner #4**Institution:** ILRI - International Livestock Research Institute**Contacts**

| Type | Contact | Responsibilities and contributions |
|---------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Partner | Augustine, Ayantunde <A.Ayantunde@cgiar.org> | Activity 2014-185 *Leader*. Activity 2014-186 *Partner*. Activity 2014-187 *Partner*. Activity 2014-188 *Partner*. |

Partnerships overall performance over the last reporting period: The two local partners in Burkina and Mali play key roles in the project, and helped tremendously with the local practical arrangements and to assess the local (political and security) situation. The content work of ILRI and IWMI individually is making good progress, but more integration would be beneficial.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: More integration of the project components is to be sought.

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3. Locations

| Project level | Latitude | Longitude | Name |
|---------------|----------|-----------|---------|
| CCAFS Site | 13.828 | 13.828 | Yatenga |
| CCAFS Site | 13.509 | 13.509 | Segou |

4. Outcomes

4.1 Project outcome narrative

Project outcome statement

500 CSV farmers have implemented additional water storage options on their farms as a strategy to help improve their climate resilience, in collaboration with one or more of the NGOs (FNGN, SNV, GARY, DRGR, IFAD – rural micro-finance programme, AgriBusiness).

This has been outscaled beyond the CSV, so that 20,000 farmers outside of the CSV have also implemented additional water storage options on their farms as a strategy to help improve their climate resilience. 20,000 farmers have access to credit schemes to implement water storage options, which have been put in place based on activities and policies supported and implemented by government departments/agencies in Burkina Faso, Mali and Ghana that incorporate water storage investment options to increase water and food security.

Annual progress towards outcome (end of 2015): Decision makers (project/initiative implementation leadership teams) within IFAD – rural micro-finance programme (Mali) and AgriBusiness (Burkina Faso) will be involved from the onset of the research process and engaged throughout the project duration. Within the first year this engagement will consist of their active participation in project workshops, consultation and validation workshops and in co-development of knowledge materials. Representatives of these NGOs will be included in the process of developing and sharing knowledge materials on the research results (such as training manuals and info-graphics). This will all help to ensure that the resulting research outputs meet and align with their knowledge needs and that they also match the understanding that these NGOs have of the relevant CSV farming communities and their needs, constraints and incentives regarding financing related to water storage options.

Decision makers (project/initiative implementation leadership teams) within these 4 NGOs (FNGN, SNV and GARY (Burkina Faso), DRGR (Mali)) will be involved from the onset of the research process and engaged throughout the project duration. This engagement will consist of active participation in project workshops, farmer field schools, and consultation and validation workshops and in the co-development of knowledge materials. Representatives of these NGOs will be also included in the process of developing and sharing knowledge materials on the research results (such as training manuals and info-graphics). This will help to ensure that the resulting research outputs meet and align with their knowledge needs, and that they also match the understanding that these NGOs have of the relevant CSV farming communities and their needs, constraints and incentives regarding water storage options.

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Annual progress towards project outcome in the current reporting cycle (2015): NGOs attended the inception workshop of the programme (attached inception meeting report), during which a half day brainstorm session was organised around the impact pathways and how the stakeholders can be involved. Further indepth discussions have been held with individual NGOs. In addition, the WACDEP programme led by GWP (in Ghana and Burkina Faso) on improving water security and climate change adaptation resonates well with the aims of this project and strong ties have been created between the two initiatives (<http://www.gwp.org/en/WACDEP/NEWS-AND-EVENTS/Events-Listing/7th-WACDEP-Technical-Coordination-Workshop-in-Accra-Ghana/>). We are in discussion with GWP in integrating results from the IWSLI project into the White Volta IWRM investment plan. They are in particular interested in the business cases of the water storage and livestock interventions, which we are currently developing. Similar interactions are expected for the WACDEP Burkina Faso component. A one page project brief has been developed in English and French to explain the project to potential stakeholders.

Communication and engagement activities have contributed to achieving your Project outcomes: The awareness creation of the project with stakeholders will make help in getting the project results out to the final end users

Evidence documents of progress towards outcomes: [Building climate smart farming systems project brief_text final version_v2_layout.pdf](#)

Annual progress towards outcome (end of 2016): Two NGOs are beginning to use evidence on climate smartness of water storage options in their capacity building programmes. One NGO has begun to use manuals, info-graphics and other materials on water storage options. 20000 farmers are sensitized on the benefits of water storage options through these activities.

One NGO is developing financing choices for farmers relating to water storage options. 1000 farmers have access to and 10 farmers received credit to invest in water storage.

Annual progress towards outcome (end of 2017): Two NGOs are using manuals, info-graphics and other materials on water storage options in their capacity building activities. 50000 farmers are sensitized on the benefits of water storage options, and 5000 farmers have also implemented additional water storage options on their farms.

Two NGOs are developing financing choices for farmers relating to water storage options. 5000 farmers have access to and 100 farmers received credit to invest in water storage.

Annual progress towards outcome (end of 2018): Three of the NGOs are using manuals, info-graphics and other materials on water storage options in their capacity building activities. 100000 farmers are sensitized on the benefits of water storage options through these activities, and 20000 farmers have also implemented additional water storage options on their farms.

Two NGOs have developed financing choices for farmers relating to water storage options. 20000 farmers have access to and 1000 farmers have received credit to invest in water storage.

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: Stakeholder engagements often are very personalised and changes in staff can have impacts. Unfortunately the communications person at IWMI left the institute and some stakeholder engagements were therefore not as strong as we would have wanted them to be. In addition, the postponement of establishing an IWMI office in Ouagadougou has reduced the effectiveness of the stakeholder engagement

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: 2 | Cumulative target to date: 2 |
| <p>Target narrative: Three NGOs are using evidence on climate smartness of water storage options, and knowledge about the trade-offs between different options, to prioritise, inform and implement their development investment decisions, actions and other initiatives. Project results, recommendations, knowledge and information, and communication materials, from this research project are integrally included in the capacity building and community engagement work of these NGOs. This has resulted in 500 CSV farmers and 20000 beyond the CSVs, implementing additional water storage options on their farms. Additionally, 100000 farmers are sensitized on the benefits of water storage options through the activities of the NGOs.</p> | |
| <p>The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 50% of the prioritised storage options are specifically targeting women and youth. At least 50% of the sensitised farmers are women and youth.</p> | |

| 2015 | | |
|-----------------|------------------------------|----------------------|
| Target value: 0 | Cumulative target to date: 0 | Target achieved: 0.0 |

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| 2015 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>Target narrative: Decision makers (project/initiative implementation leadership teams) within these NGOs will be involved from the onset of the research process and engaged throughout the project duration. This engagement consists of active participation in project workshops, farmer field schools, and consultation and validation workshops and in the co-development of knowledge materials. Representatives of these NGOs will be also included in the process of developing and sharing knowledge materials on the research results (manuals, info-graphics). This will help to ensure that the resulting research outputs meet and align with their knowledge needs, and that they also match the understanding that these NGOs have of the relevant CSV farming communities and their needs, constraints and incentives regarding water storage options.</p> <p>Initial research outputs (best-bet water storage options) will be discussed with these NGOs, CSV farmers and others at validation workshops with the goal of validating the research results. NGOs are now aware of the potential benefits and climate smartness of the various water storage options.</p> | |
| <p>Narrative for your achieved targets, including evidence: During the inception meeting representatives from the NGOs were present and the impact pathway was discussed. Field activities, including site selection and selection of interventions were done in close collaborations of farmers and extension workers (BF) and NGO representatives and ministry of agriculture (Mali) as well as the national partners. Together with national partners research protocols were developed.</p> | |
| <p>The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined></p> | |
| <p>Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: Selection of farmers included women and youth. Mali included 100% women in the dry season farming activities, and 100% men in the wet season. In Burkina Faso, the group is mixed with 40% female participation. Typical water storage options that women are using have been identified.</p> | |

| 2016 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Target value: 0 | Cumulative target to date: 0 |
| <p>Target narrative: Two NGOS are beginning to use evidence on climate smartness of water storage options to prioritise and inform the implementation of their capacity building programmes. One NGO has also begun to use manuals, info-graphics and other materials produced through this project's work in their activities, localizing and translating where appropriate. 20,000 farmers are sensitized on the benefits of water storage options through these activities. This has resulted in 100 CSV farmers and 1000 beyond the CSVs, implementing additional water storage options on their farms.</p> | |
| <p>The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 50% of the prioritised storage options are specifically targeting women and youth. At least 50% of the sensitised farmers are women and youth.</p> | |

| 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> | | |

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| 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> | |

Indicator #2: FP1 Indicator: # of public-private actors at national and sub-national levels are using new incentive mechanisms or business models/ markets that explicitly promote climate smart approaches along the value chain, using CCAFS science

| 2019 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Target value: 1 | Cumulative target to date: 1 |
| <p>Target narrative: One NGOs is actively promoting investment in water storage options, in either Mali or Burkina Faso, that are financially viable through credit schemes that are acceptable to farmers (e.g. subsidies, micro-credit schemes). This outreach by this NGO is therefore providing access to credit schemes for water storage options for approximately 20,000 farmers who they work with. So far this has resulted in at least 1,000 farmers engaging in credit schemes to enable them to develop appropriate climate smart water storage options on their farms.</p> | |
| <p>The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 50% of the farmers receiving credit are women and youth. Credit schemes are particularly targeting women and youth.</p> | |

| 2015 | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Target value: 0 | Cumulative target to date: 0 | Target achieved: 0.0 |
| <p>Target narrative: Decision makers (project/initiative implementation leadership teams) within these 2 NGOs will be involved from the onset of the research process and engaged throughout the project duration. This engagement consists of active participation in project workshops, consultation and validation workshops and co-development of knowledge materials. Representatives of these NGOs will be included in the process of developing and sharing knowledge materials on the research results (manuals, info-graphics). This will all help to ensure that the resulting research outputs meet and align with their knowledge needs and that they also match the understanding that these NGOs have of the relevant CSV farming communities and their needs, constraints and incentives regarding financing related to water</p> | | |
| <p>Narrative for your achieved targets, including evidence: Active engagement with the WACDEP programme in Ghana has resulted in identification of information needs by WACDEP in incorporating CCAFS research results in the WACDEP process of developing IWRM investment plan for the White Volta basin (northern Ghana).</p> | | |
| <p>The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined></p> | | |

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| 2015 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: Part of the identified information need is the impact on female farmers of the identified interventions. |

| 2016 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Target value: 0 | Cumulative target to date: 0 |
| Target narrative: At least one NGO is actively developing new (or expanding existing to include), financing choices for farmers relating to water storage options in their credit provision schemes. At least 10 farmers within the CSVs have (through this new offering and the farmer's involvement in the project's capacity building and workshop activities) then taken up this credit scheme option to develop a water storage option. 1,000 farmers have access to the credit scheme for investing in water storage options. | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 50% of the farmers receiving credit are women and youth. Credit schemes are particularly targeting women and youth.least 50% of the farmers receiving credit are women and youth. | |

| 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

RP-WA Outcome #55. CCAFS science-derived decision support tools and systems are used by various institutions to mainstream climate change into national plans and policies from local to national levels.

Through the CCAFS science-policy dialogue platform (Burkina Faso and Mali) and the WACDEP programme (in Ghana and Burkina Faso), representatives from relevant government ministries (water, agriculture and environment) adapt policies and implement activities and strategies that target and include economic assessment, trade-off analyses and

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upscaling of water storage options and usage towards fostering increased incomes, enhanced climate resilience, and household, community as well as national food security.

Collaborating with other CRPs

| Water, Land and Ecosystems |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description of collaboration: Two WLE projects (Africa Rising-West Africa (IWMI)) and ILSSI, USAID funded) do similar work in Ghana and WLE Biomass (ILRI) is intervening in Yatenga province. Similar interventions are implemented and CC aspects emanating from this project are shared. Research results are regularly exchanged and consolidated results communicated to end users. |
| The achieved outcome contributions: <Not defined> |

| Dryland Systems |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description of collaboration: The ILRI component of Africa Rising- West Africa is mapped against Dryland systems. Research results are exchanged on a regular basis. CC aspects emanating from this project are also fed back into these two projects. Consolidated results are communicated to end users. |
| The achieved outcome contributions: <Not defined> |

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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 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, SEA)</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG All earlier information is compiled to develop investment/credit schemes that remove barriers for uptake and are acceptable for farmers in terms of return of investment (timing and risk).</p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output By designing investment/ credit schemes specific attention is given towards the preference of women and youth.</p> |
| <p>FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA)</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG Modelling of CSA interventions under CC will provide additional information on how CSA options and portfolios enhance adaptive capacity.</p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output Particular attention will be given towards the CSA options and portfolios where women are actively involved</p> |
| <p>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)</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG Trade-offs between different water storage options, water application and water use are well presented</p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output Particular attention is given to the role of women in water storage options.</p> |
| Major Output groups - 2014 |

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FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, 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>

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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>

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

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FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, 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:

Establishing the need for increased water storage to overcome short dryspells to increase resilience to climate variability and climate change. First steps in developing business cases to support scaling out of water storage options.

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:

Identification of gender role in the use of different water storage options and selection of water storage options supporting women and youth for business case development.

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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:

Baseline survey identified different needs of farmers and existing water storage options in the two sites, through PAR selected water storage options and crop-livestock interventions were selected for field based trials.

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:

Baseline survey distinguishes between different needs for men and women.

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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:

Key information and data collection towards trade-off analyses is ongoing, business case development and trade-offs between different uses to be developed in 2016 will feed into this MOG.

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:

Gender preferences will influence final decisions made on the trade-off analyses. Gender preferences on criteria for selecting interventions were obtained from the baseline survey.

Major Output groups - 2016

FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, SEA)

Brief bullet points of your expected annual 2016 contribution towards the selected MOG

Barriers and constraints for uptake of water storage interventions are identified in the two CSV sites.

Brief plan of the gender and social inclusion dimension of the expected annual output

Particular attentions is given towards why women and youth are not taking up water storage options to improve their livelihoods.

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA)

Brief bullet points of your expected annual 2016 contribution towards the selected MOG

Participatory testing, evaluation and promotion of crop-related CSA practices in EA. Specific interventions include promotion of drought tolerant, disease resistant, pest tolerant, faster maturing, and highly nutritious crops.

Brief plan of the gender and social inclusion dimension of the expected annual output

Participatory testing involves women and organized youth groups, who will particularly spearhead village demonstrations and multiplication of seeds and planting material in the local communities.

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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

The potential yield of water use for crop production and livestock is assessed by monitoring and evaluating several interventions.

Brief plan of the gender and social inclusion dimension of the expected annual output

In particular activities where women and youth are involved will be tested and evaluated.

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: Longer term project goals contribute towards the MOGs it is therefore important that we keep these MOGs in the back of our minds when implementing the project.

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5.2 Deliverables

Deliverable #1

| Main Information | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Best-bet water storage options considering WCL system description, gender differentiation and market/value chain | |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) | |
| Main Type: Reports, Reference Materials and Other Papers | Sub Type: Research report |
| Year of expected completion: 2015 | |
| Status: Extended | Justification for cancelling the deliverable: Due to the political situation in one of the sites, the baseline survey was delayed to December and data analyses is ongoing, all other materials (literature reviews etc are ready). Expected date for report to be finalised is end of March 2016 |

| Next-user #1 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGOs: FNGN, SNV and GARY (Burkina Faso), Association Malienne d'Eveil pour le Developpement Durable DRGR (Mali) |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge among decision makers at selected NGOs on the role of various water storage options in climate resilience and the role of women in the use of water storage options, is increased. They are more likely to apply this new understanding to their development investment decisions, actions and other initiatives. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: NGOS will be encouraged to contribute directly to the identification of key indicators, through participation in targeted workshops, the development and sharing of knowledge materials (manuals, info-graphics) and participation in site visits. They will also be encouraged to share the knowledge materials with their networks, partners and members. |

| Next-user #2 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Farmers, and farmer organisations (FNGN, Ton Jeunesse, PRECAD) in the Yatenga (Burkina Faso) and Segou (Mali) areas |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge about appropriate water storage options, and the benefits (in particular to women), is significantly increased. They are better prepared for adaption to climate change impacts, and their food security, productivity and livelihoods are more resilient. The ability to develop and use these water storage options has been raised. |

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Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Pilot farmers will be involved directly in participatory action research activities (Farmer field schools, supported with animated knowledge materials (water balance and accounting games) designed to demonstrate the different options and benefits) to raise their understanding and appreciation of the use, and potential, of water storage options for climate resilience.

Partners contributing to this deliverable

Partner #1 (Responsible): Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute

Partner #2: Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute

Partner #3: Dembele, Daouda <daoudad91@yahoo.fr>, IER - Institut d'Economie Rural

Partner #4: Sawadogo, Louis <sawadogo_ls@hotmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles

Partner #5: Bationo Babou, André <babou.bationo@gmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles

Partner #6: Traore, Kalifa <ibosimon_1@yahoo.fr>, IER - Institut d'Economie Rural

Deliverable Ranking

| | |
|---------------------------------------------------------------------|---|
| Address gender and social inclusion aspect | 3 |
| Potential for/ actual contribution to outcomes | 3 |
| Level of shared ownership (partnerships across org.) | 4 |
| What is your personal perspective of the importance of this product | 3 |

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>

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Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing**Deliverable files**

<Not defined>

Deliverable #2**Main Information****Title:** Decision making support tool on farmer preferences and constraints and barrier analyses for uptake**MOG # 1:** Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA)**Main Type:** Tools and Computer Software**Sub Type:** Tools**Year of expected completion:** 2016**Status:** On-going**Justification for cancelling the deliverable:** The tool or framework for farmers' preference of water storage options has been developed and has been used in the project sites in Burkina Faso to prioritize water storage technologies. This activity has partly been conducted in Burkina Faso through the prioritization of water storage technologies and still needs to be implemented in Mali.**Next-user #1**

NGOs (FNGN, SNV and GARY (Burkina Faso), DRGR (Mali)

Knowledge, attitude, skills and practice changes expected in next-user: They are better able to identify potential incentives (eg credit schemes and improved practices), that would encourage farmers (including women farmers) to explore the use of alternative water storage options for enhanced climate resilience. They are better equipped to link appropriate water storage options to farmer's preferences.**Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes:** Consultation meetings will be held at regular intervals from the onset of the research project to obtain their input into the design of survey instruments in assessing farmer's barriers, constraints and incentives for utilizing knowledge, on water storage options and enhancing women's involvement. Validation workshops will be held.**Next-user #2**

CCAFS projects, specifically i) Partnerships for outscaling CSA, led by Todd Rosenstock

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Knowledge, attitude, skills and practice changes expected in next-user: The Partnership for outscaling CSA project chooses to incorporate the socio-economic indicators in their Basian Network approach to assess potential uptake of the water storage options.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Regular interaction will ensure that research is useful, relevant and aligned with the data needs of this project. Jointly drafting and developing knowledge materials, will help to ensure that the key findings and messages are taken on-board by the Partnership for outscaling CSA project team in an inclusive way.

Partners contributing to this deliverable

Partner #1 (Responsible): Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute

Partner #2: Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute

Partner #3: Bationo Babou, André <babou.bationo@gmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles

Partner #4: Traore, Kalifa <ibosimon_1@yahoo.fr>, IER - Institut d'Economie Rural

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>

Submitted on 2016-03-03 at 17:42 UTC

Coverage: <Not defined>

| Deliverable Data sharing |
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| Deliverable files <Not defined> |

Deliverable #3

| Main Information |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Report on performance tested best-bet water storage options |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) |
| Main Type: Reports, Reference Materials and Other Papers |
| Sub Type: Research report |
| Year of expected completion: 2017 |
| <div> Status: On-going <div> Justification for cancelling the deliverable: Farmers have been identified to demonstrate climate smart agriculture interventions on water storage for crop-livestock production and protocols for demonstrations in the two focus countries have been developed. Interventions in Burkina Faso include soil water storage technologies (Zai and demi lune), and use of rooftop water harvesting for homestead gardening and livestock watering. In the dry season, use of water-saving irrigation and water storage technologies. In Mali, inter- and intra-row ridging have been identified for rainy season while solar pumps with surface irrigation and pressurized irrigation have been identified for the dry season. </div> </div> |

| Next-user |
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| NGOs (FNGN, SNV and GARY (Burkina Faso), DRGR (Mali) IFAD –rural micro-finance programme – Mali and AgriFinance Burkina Faso) |
| Knowledge, attitude, skills and practice changes expected in next-user: The knowledge and understanding on how water storage influences water fluxes, buffers and water availability, the productivity of different systems is significantly enhanced enabling them to use this information practically to better guide their development investments, include it in their advocacy work to support farming communities. |

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Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Participation in the field scale testing, evaluating and monitoring activities, and involving them in workshops and training activities will help to ensure they know and appreciate the relevance and value of this information. They will integrate their knowledge and understanding of these issues into their ongoing work with farming communities.

Partners contributing to this deliverable

Partner #1 (Responsible): Kadyampakeni, Davie <d.kadyampakeni@cgiar.org>, IWMI - International Water Management Institute

Partner #2: Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute

Partner #3: Traore, Kalifa <ibosimon_1@yahoo.fr>, IER - Institut d'Economie Rural

Partner #4: Sawadogo, Louis <sawadogo_ls@hotmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles

Deliverable Ranking

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|---------------------------------------------------------------------|---------------|
| 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

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

Deliverable Metadata

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

Submitted on 2016-03-03 at 17:42 UTC

| Deliverable Data sharing |
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| Deliverable files <Not defined> |

Deliverable #4

| Main Information | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Decision support tool to identify climate smart water storage options (what works where and how) | |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) | |
| Main Type: Tools and Computer Software | Sub Type: Tools |
| Year of expected completion: 2018 | |
| Status: On-going | Justification for cancelling the deliverable: This deliverable is a compilation of the information obtained from other activities, in particular deliverable #2 which are ongoing |

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGOs (FNGN, SNV and GARY (Burkina Faso), DRGR (Mali) |
| Knowledge, attitude, skills and practice changes expected in next-user: Enhancing of knowledge and understanding on how climate smartness of the tested water storage options, enabling use of this information practically to better guide development investments, and include it in advocacy to farming communities. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Regular participation in field scale testing, evaluating and monitoring activities, workshops and training activities relating to communicating research finding that will help to ensure they know and appreciate the relevance of this information. This will also allow for integration of this knowledge and understanding into the work with farming communities. |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Kadyampakeni, Davie <d.kadyampakeni@cgiar.org>, IWMI - International Water Management Institute |
| Partner #2: Dembele, Daouda <daoudad91@yahoo.fr>, IER - Institut d'Economie Rural |
| Partner #3: Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute |
| Partner #4: Sawadogo, Louis <sawadogo_ls@hotmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles |
| Partner #5: Traore, Kalifa <ibosimon_1@yahoo.fr>, IER - Institut d'Economie Rural |

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Partner #6: Bationo Babou, André <babou.bationo@gmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles

| 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 |
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| 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 |
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| Deliverable files <Not defined> |

Deliverable #5

| Main Information |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Report on evaluation of tested best-bet water storage options under CC |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) |

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| Main Type: Reports, Reference Materials and Other Papers | Sub Type: Research report |
| Year of expected completion: 2017 | |
| Status: On-going | Justification for cancelling the deliverable: For 3 RCMs in combination with 2 RCPs (4.5 and 8.5) downscaled rainfall data has been obtained for the period of 1950-2100. This will provided input into the modelling under CC. A cropping system model will be calibrated for evaluation of the CC scenarios and the impacts it has on agriculture. |

| Next-user |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGOs (FNGN, SNV and GARY (Burkina Faso), DRGR (Mali) IFAD –rural micro-finance programme – Mali and AgriFinance Burkina Faso) |
| Knowledge, attitude, skills and practice changes expected in next-user: Enhancing of the knowledge and understanding on the overall climate change resilience of the water storage system, enabling them to use this information practically to better guide their development investments, and include it in their advocacy to farming communities. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Regular participate in meetings, workshops and training activities will help to ensure they know and appreciate the relevance and value of this information to their work. This will also provide opportunities for them to begin integrating this knowledge and understanding of these issues into their ongoing work with farming communities. |

| Partners contributing to this deliverable |
|--------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute |
| Partner #2: Kadyampakeni, Davie <d.kadyampakeni@cgiar.org>, IWMI - International Water Management Institute |
| Partner #3: Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock 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.) | 3 |
| What is your personal perspective of the importance of this product | 4 |

| Deliverable dissemination |
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| Open access restriction: <Not defined> |

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| 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 |
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| Deliverable files <Not defined> |

Deliverable #6

| Main Information |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Business model for water storage options, including alternative investments options |
| 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: Data and information outputs, including datasets, databases and models |
| Sub Type: Models |
| Year of expected completion: 2018 |
| Status: On-going |
| Justification for cancelling the deliverable: Because of the departure of the key economist in the project, this activity will start in 2016 with the newly identified economist in the project team |

| Next-user #1 |
|-------------------------------------------------------|
| NGOs (FNGN, SNV and GARY (Burkina Faso), DRGR (Mali)) |

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Knowledge, attitude, skills and practice changes expected in next-user: Enhancing of the knowledge and understanding about the economic benefits of various water storage options and the business case and investments options for each, enabling them to use this information to better guide their development investments, and include it in their advocacy and knowledge support to farming communities.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Regular attendance in progress meetings, workshops, training activities and innovation platforms, will ensure they know and appreciate the relevance and value of this information to their work. This will provide opportunities for them to begin integrating this knowledge and understanding of these issues into their ongoing work with farming communities.

Next-user #2

NGOs (IFAD –rural micro-finance programme – Mali and AgriFinance Burkina Faso)

Knowledge, attitude, skills and practice changes expected in next-user: Enhancing knowledge and understanding (generated through the research) on business opportunities and economic benefits of various water storage options and investment options for using/creating them, in the development of investment schemes aimed at farming communities in order for them to develop these water storage options.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Active involvement in workshops about, and in the development of materials on, business opportunities, economic benefits and investment options relating to water storage options. Participation in field visits and (where appropriate) to participate in an innovation platform.

Next-user #3

Farmers and farmer organisations (Local FNGN farmer organisation, Ton Jeunesse, PRECAD)

Knowledge, attitude, skills and practice changes expected in next-user: Understanding of the business opportunities, economic benefits and potential investment options among farmers is increased to the point where they are able to begin actively exploring the use of some of these options on their farms in collaboration with NGO and micro-credit NGO support.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Farmers and other members of farmer organizations will be actively engaged in field schools, workshops and (where appropriate) an innovation platform to demonstrate these business opportunities, economic benefits and potential investment options. This will be done in partnership with NGO and micro-credit representatives to help foster partnerships.

Next-user #4

Representatives from government ministries including the Ministries of Agriculture in Burkina Faso, Mali, and Ghana and other national policy makers.

Knowledge, attitude, skills and practice changes expected in next-user: Increasing awareness of the potential benefits of supporting the development of various water storage options towards achieving greater agricultural productivity and concurrently climate resilience. Relevant policies in one of these three countries includes recognition of the economic benefits of various water storage options with regards to agricultural productivity.

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Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Active participating and engaging in the CCAFS science-policy dialogue platform and the WACDEP programme (in Ghana and Burkina Faso). This will also provide opportunities for them to begin integrating this knowledge and understanding of these issues into the development of the policies.

Partners contributing to this deliverable

Partner #1 (Responsible): Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute

Partner #2: Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute

Partner #3: Traore, Kalifa <ibosimon_1@yahoo.fr>, IER - Institut d'Economie Rural

Partner #4: Sawadogo, Louis <sawadogo_ls@hotmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles

Deliverable Ranking

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|---------------------------------------------------------------------|---------------|
| 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

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Author Identifier: <Not defined>

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Submitted on 2016-03-03 at 17:42 UTC

| Deliverable Data sharing |
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| Deliverable files <Not defined> |

Deliverable #7

| Main Information | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Report on trade-off analyses between crop and livestock productivity | |
| 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: Reports, Reference Materials and Other Papers | Sub Type: Research report |
| Year of expected completion: 2018 | |
| Status: On-going | Justification for cancelling the deliverable: This activity is one of the last ones, and may be cancelled depending on the progress made with the current budget allocation |

| Next-user #1 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGOs (FNGN, SNV and GARY (Burkina Faso), DRGR (Mali) |
| Knowledge, attitude, skills and practice changes expected in next-user: Enhancing of knowledge and understanding about trade-offs between different water storage options and uses (crop vs livestock; dry season vs dryspells), enabling them to use this information to better guide their development investments, and include it in their advocacy and knowledge support to farming communities. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Regular participation in meetings, workshops and training activities will help to ensure they know and appreciate the relevance and value of this information to their work. This will also provide opportunities for them to begin integrating this knowledge and understanding of these issues into their ongoing work with farming communities. |

| Next-user #2 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Farmers, and farmer organisations (FNGN, Ton Jeunesse, PRECAD) in the Yatenga (Burkina Faso) and Segou (Mali) areas |
| Knowledge, attitude, skills and practice changes expected in next-user: Increased understanding of trade-offs between different water storage options and uses (crop vs livestock; dry season vs dryspells) to the point where they are able to begin actively exploring the use of some of these options on their farms in collaboration with NGO and micro-credit NGO support. |

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Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Actively engaged in field schools, workshops and (where appropriate) an innovation platform to demonstrate these trade- between different water storage options and uses (crop vs livestock; dry season vs dryspells). This will be done in partnership with NGO and micro-credit representatives to help foster partnerships.

Next-user #3

Representatives from government ministries including the Ministries of Agriculture and Water Resources in the three countries

Knowledge, attitude, skills and practice changes expected in next-user: Relevant policies in one of these three countries are amended to be inclusive of recognition of trade-offs of various water storage options with regards to agricultural productivity. These policy amendments actively support the promotion of relevant, appropriate investment options to support the use in agriculture for climate resilience.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Regular updating on progress in the economic assessment, trade-off analyses and upscaling of water storage options and usage, through the CCAFS science-policy dialogue platform and the WACDEP programme. This will also provide opportunities for integrating this knowledge and understanding of these issues into the development of the policies.

Partners contributing to this deliverable

Partner #1 (Responsible): Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute

Partner #2: Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute

Partner #3: Traore, Kalifa <ibosimon_1@yahoo.fr>, IER - Institut d'Economie Rural

Partner #4: Sawadogo, Louis <sawadogo_ls@hotmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles

Deliverable Ranking

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|---------------------------------------------------------------------|---------------|
| 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>](#)

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| Deliverable Metadata |
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| 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 |
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| Deliverable files <Not defined> |

Deliverable #8

| Main Information | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Title: Report on upscaling of water storage options and impact assessment of upscaling | |
| MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, SEA) | |
| Main Type: Reports, Reference Materials and Other Papers | Sub Type: Research report |
| Year of expected completion: 2018 | |
| Status: Cancelled | Justification for cancelling the deliverable: This deliverable is likely to be cancelled due to budget cuts. |

| Next-user #1 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGOs: FNGN, SNV and GARY (Burkina Faso), DRGR (Mali) |
| Knowledge, attitude, skills and practice changes expected in next-user: Increased knowledge and understanding about options to overcome constraints and barriers of upscaling water storage option and larger scale impact of outscaling different water storage options, enabling them to use this information to better guide their development investments, and include it in their advocacy and knowledge support to farming communities. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Regular participation in meetings. workshops and training activities will help to ensure they know and appreciate the relevance and value of this information to their work. This will also provide opportunities for them to begin integrating this knowledge and understanding of these issues into their ongoing work with farming communities. |

Submitted on 2016-03-03 at 17:42 UTC

| Next-user #2 |
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| Representatives from government ministries including the Ministries of Agriculture and Water Resources and other national policy makers. |
| Knowledge, attitude, skills and practice changes expected in next-user: Amendment of relevant policies in one of these three countries includes the recognition of the economic benefits of various water storage options with regards large scale impact analyses of outscaling different water storage options. These policy amendments actively support the promotion of relevant, appropriate investment options to support climate resilience. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Fostering awareness of the large scale impacts of supporting the development of various water storage options towards achieving greater agricultural productivity and concurrently climate resilience, through the CCAFS science-policy dialogue platform and the WACDEP programme. Provideing opportunities to integrate this knowledge and understanding into the development of the policies. |

| Partners contributing to this deliverable |
|------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute |
| Partner #2: Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute |
| Partner #3: Dembele, Daouda <daoudad91@yahoo.fr>, IER - Institut d'Economie Rural |
| Partner #4: Sawadogo, Louis <sawadogo_ls@hotmail.com>, INERA - Institut de l'Environnement et de Recherches Agricoles |

| 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 |
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| 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 |
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| Deliverable files <Not defined> |

Deliverable #9

| Main Information | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Climate smart systems decision making matrix tool for decision makers to assess the climate smartness | |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) | |
| Main Type: Tools and Computer Software | Sub Type: Tools |
| Year of expected completion: 2016 | |
| Status: On-going | Justification for cancelling the deliverable: Information has been collected to inform the matrix tool for climate smartness of the integrated water storage and crop-livestock interventions |

| Next-user |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NGOs (FNGN, SNV and GARY (Burkina Faso), DRGR (Mali) IFAD –rural micro-finance programme – Mali and AgriFinance Burkina Faso |
| Knowledge, attitude, skills and practice changes expected in next-user: Decision makers within selected NGOS begin to use the Climate smart systems decision making matrix tool in assessing the most appropriate and productive types of climate smart water storage interventions to promote among farmers, see the value of using this system and integrate it into their work with farming communities. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Decision makers within selected NGOs will be actively engaged in the development of the indicators, through meetings and presentations, inclusion in workshops and farmer engagement, involvement in the research itself, and through capacity building activities specifically on the use and integration of this indicator system tailored to their needs. |

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| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute |
| Partner #2: Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute |
| Partner #3: Kadyampakeni, Davie <d.kadyampakeni@cgiar.org>, IWMI - International Water Management 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 #10

Submitted on 2016-03-03 at 17:42 UTC

| Main Information | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: A set of jointly written decision support tools for farmers on CSA technologies | |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) | |
| Main Type: Tools and Computer Software | Sub Type: Tools |
| Year of expected completion: 2017 | |
| Status: On-going | Justification for cancelling the deliverable: first set of information feeding into this deliverable has been gathered on water storage and crop-livestock interventions for CSA |

| Next-user |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| other CCAFS projects, specifically: i) Partnerships for outscaling CSA,ii) Scaling up CSA technologies, practices and tools |
| Knowledge, attitude, skills and practice changes expected in next-user: Teams from all three projects collaborate to incorporate knowledge generated from all three projects into a set of jointly written and reviewed support tools on CSA technologies for farmer. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: The two other research teams will be involve in the drafting and review stages of developing decision support tools. These two research teams will also be invited to key workshops, training sessions and other farmer engagement activities relating to water storage technologies. |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute |
| Partner #2: Kadyampakeni, Davie <d.kadyampakeni@cgiar.org>, IWMI - International Water Management 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> |

Submitted on 2016-03-03 at 17:42 UTC

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>

5.3 Summary on next-users

| Next user #1 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: The WACDEP programme led by GWP is a key next user, in particular in terms of research uptake and linking up with potential financing institutions through the inclusion in the White Volta Basin investment plan (as a start). WACDEP is aimed at increasing water security and climate change adaptation which is inline with this project's objectives. WACDEP organises stakeholder platforms that include government partners, NGOs and donor agencies. By involvement with WACDEP, research results can be more easily reaching the potential end users in gaining access to financing for their efforts in becoming more climate smart. WACDEP is slowly incorporating Climate Smart Agriculture as one of their interventions into their programmes.</p> |
| <p>Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: As the Ghana section of the WACDEP programme is at an advanced stage, engagements have primarily been with the Ghana WACDEP component, through attending the African WACDEP meeting and presenting the project and CCAFS in general. Followup one-on-one meetings have been held to identify types of information exchanges needed and to plan for further engagements.</p> |
| <p>Reported deliverables serve as evidence towards this achieved change: Engagements with WACDEP will inform the final outlook of the business cases that will be developed in the course of 2016</p> |
| <p>Lessons and implications for the next planning cycle: Since the focus till today has been on Ghana, the next planning cycle needs to upscale the engagement to the Burkina Faso part of the WACDEP programme and alternatives for Mali should be found.</p> |

5.4 Project highlights

| Project highlight Information #1 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Title: Communities perceptions on CSA and water storage interventions | |
| Author: Augustine Ayantunde; Tunde Adegoke Amole, Davie Kadyampakeni, Louis Sawadogo, Andre Bationo, Khalifa Traore | Subject: PAR; community engagements; CSA; water storage |
| Publisher: <Not defined> | Year: 2015 |
| Project highlights types Participatory action research | Start date: 2016-03-01 |
| End date: 2016-03-01 | Is global: No |
| Country: Burkina Faso | Keywords: PAR; community engagements; CSA; water storage |
| <p>Highlight description: The farmers' preference of water storage technologies based on climate smart agriculture criteria (food security, adaptation and mitigation) were discussed during focus group discussions in 6 project communities in Burkina Faso, which were lively and informative. The understanding of climate smart agriculture by the farmers was quite surprising. The ranking of the water storage technologies show clearly that the rural populations know what they want and it is up to the project to consider their priorities in our interventions.</p> | |
| <p>Introduction / Objectives: As part of the Participatory Action Learning process, the interventions to be tested and monitored were selected in close consultation with the participating communities in the CSVs, through prioritisation exercises and community consultations prior and during the installations of the interventions. Existing water storage options and their importance to contribute to a number of criteria as well as some interventions from outside were presented (such as rooftop harvesting and solar pumps).</p> | |
| <p>Results: There are diverse water storage technologies, contour bunds, inter-row water harvesting, Zai, dugouts, semi-circular bunds (half-moon, demi lune), natural depressions, storage in tanks/jars, stone bunds, underground storage, large semi-circular bunds and small reservoirs in the six communities where the project is intervening. Some of these technologies are considered to be climate smart based on the prioritization exercise in each community. The three highly ranked water storage technologies are small reservoir (where available), stone bunds with zai and dugout. From the response of the focus group discussants in each village, project interventions on water storage should focus on these three technologies. The selected interventions to be tested and monitored therefore include Zai and demi lune (semi-circular bunds) and a new technology being rooftop harvesting in particular for livestock watering which the communities indicate they are very interested in. Shallow wells will also be tested together with solar pumps compared to motorised pumps and drip irrigation vs hose and watering cans for vegetable production in the dry season. Many community members volunteered to participate in the testing of the technologies.</p> | |
| Partners: ILRI, IWMI, INERA, IER | |
| Links / Sources for further information: <Not defined> | |

6. Activities

| Activity #1 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Water-crop-livestock system description and actor mapping | |
| Description: This activity will compile all available data and information on water storage (focusing on water retention techniques for crop production and small-to-medium scale water storage infrastructures for multi-purpose use, combined with technologies focusing on optimizing crop-livestock productivity. Factors that potentially affect the success of the intervention are assessed. Secondly, a detailed description of the water-crop-livestock system in the two pilot sites will be developed, including an analysis of the role of gender and youth. Detailed market and value chain analyses through Innovation Platforms will be used to link the marked demand to the production system. Farmer preferences towards risk, investments, labour inputs and credits schemes for existing and potential inventions are assessed through detailed surveys. This will identify constraints and barriers for successful uptake of water storage options for increasing the climate smartness of the water-crop-livestock system. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2018 |
| Leader: Augustine, Ayantunde <A.Ayantunde@cgiar.org>, ILRI - International Livestock Research Institute | |
| Status: On-going | Justification: Baseline surveys, initial climate analyses (dryspells and climate change projection downscaling) and literature reviews have been executed and draft reports are ready. |

| Activity #2 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Testing, evaluating and monitoring water storage options and their productivity | |
| Description: This activity aims to contribute to the knowledge on the responses of the water-crop-livestock system to a selection of water storage options that increase water availability (focusing on water retention techniques for crop production (Zaï, contour ridges) and small-to-medium scale water storage infrastructures (rainwater harvesting tank, dugouts, small reservoirs) for multi-purpose use, combined with technologies focusing on optimizing crop-livestock productivity (trees and legumes, fodder production and crop residue management). In the two study sites, existing water storage options will be monitored as well as some selected water storage options that will be established by the project will be tested and monitored. Monitoring will consist of measuring components of the water balance, measure water productivity of crops, fodder and livestock using water from the storage structure. Tested water storage options are evaluated against the indicators developed in Activity 1. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2018 |
| Leader: Kadyampakeni, Davie <d.kadyampakeni@cgiar.org>, IWMI - International Water Management Institute | |
| Status: On-going | Justification: Field sites and water storage crop-livestock interventions have been selected in each site in collaboration with the local partners and community members, instrumentation has been acquired and data collection protocol has been set up and data collection is ongoing. |

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| Activity #3 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Water storage options and crop-livestock productivity modelling and climate change scenarios | |
| Description: This activity aims to contribute to assessing the climate smartness of the different water storage options and their response in terms of water productivity through the development of water balance models, crop-livestock productivity model. Data from the field collected in Activity 2 are used to calibrate and validate the models. Future climate change scenarios are taken and run through the models to assess the impact on water availability and crop-livestock water productivity. Results are assessed against the indicators that were developed in Activity 2, including risk, resilience, productivity, income and gender and social equity. The modelling will identify water storage options that not only perform well in the current climatic conditions but will also work under changing climatic conditions. A business model of the water-crop-livestock system will be developed and tested against the climate change scenarios. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2018 |
| Leader: Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute | |
| Status: On-going | Justification: Selected number of climate change projections have been obtained from the CORDEX data base, these were downscaled to the two sites where daily rainfall data was obtained. These will serve as inputs into the crop models to assess how the interventions work under climate change projections. |

| Activity #4 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Economic assessment, trade-off analyses and upscaling | |
| Description: This activity aims to assess the trade-offs between utilizing the increased water availability through water storage options for different uses. This includes dry spell mitigation versus dry season irrigation; crop versus fodder production etc. Trade-offs are assessed along the same indicators developed by Activity 1, including productivity, social and gender equity, household income. Upscaling potential is assessed through household modelling combined with farmer preferences. Options to overcome barriers and constraints, in particular for the water storage options that reduce gender equity, identified in Activity 1 are identified and potential of upscaling assessed. Finally the large scale hydrological impact of upscaling the water storage options is assessed through conceptual water balance model. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2018 |
| Leader: Mul, Marloes <m.mul@cgiar.org>, IWMI - International Water Management Institute | |
| Status: On-going | Justification: As the last activity of the project will build on the data information collected in the other activities, which is still ongoing, steps towards the trade-off analyses will be done at the same time the business models are being developed in 2016 |

Lessons regarding your project activities and possible implications for the coming planning cycle: the budget reallocations will have implications for the final deliverables of the project

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7. Leverages

<Not defined>

Submitted on 2016-03-03 at 13:52 UTC

Title: Participatory Evaluation of Climate-Smart Agriculture (CSA) in Different Agro-Ecological Zones of South Asia

| | | | |
|------------------------------------|-------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------|
| Start date (dd-MM-yyyy) | 01-01-2015 | End date (dd-MM-yyyy) | 31-12-2016 |
| Management liaison | RP SAs - South Asia Region | Mgmt. liaison contact | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> |
| Lead organization | IWMI - International Water Management Institute - Sri Lanka | Project leader | Khatri Chhetri, Arun <A.Khatri- Chhetri@cgiar.org> |
| Project type | CCAFS CORE | 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 |
| FP1: Climate-smart practices | |
| FP3: Low Emissions Agricultural Development | |
| FP4: Policies and Institutions for Climate-Resilient Food Systems | |

Bilateral project(s) contributing to this project

This project does not have Bilateral projects

Summary

This project aims to identify, test and evaluate several CSA technologies and practices across the agro-ecological zones of South Asia. This will primarily involve creating evidences using literature review, test and evaluate several CSA technologies in farmers' fields, simulation modelling, and socio-economic surveys. This activities will help to bridge the research gaps and supplement the flagship projects for scaling out climate smart agriculture in the region. The project also aims to explore the wider enabling environment for scaling out CSA through different CSV models. Institutional and business models of CSVs will be developed and evaluated working in collaboration with various stakeholders at national, sub-national and local levels.

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2. Partners

Partner #1 (Leader)

Institution: IWMI - International Water Management Institute

Contacts

| Type | Contact | Responsibilities and contributions |
|----------------|---------------------------------------------------|------------------------------------------|
| Project Leader | Khatri Chhetri, Arun <A.Khatri-Chhetri@cgiar.org> | Design, implement and M&E of the project |

Partner #2

Institution: IAAS - Institute of Agriculture and Animal Science

CCAFS Partner(s) allocating budget

RPL SAs - RPL South Asia

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partner | Gairhe, Janmajaya <janmajaya@gmail.com> | This partner is involving in testing and evaluation of the portfolios of climate smart technologies and practices in the farmers fields at different locations in Nepal. |

Partner #3

Institution: CIMMYT - International Maize and Wheat Improvement Center

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Partner | Jat, ML <m.jat@cgiar.org> | Test and evaluate the portfolios of climate smart technologies and practices in the farmers fields at different locations in India |

Partner #4

Institution: WorldFish

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Contacts

| Type | Contact | Responsibilities and contributions |
|---------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partner | Meisner, Craig <C.Meisner@cgiar.org> | This partner assesses climate change adaptation potential of fish farming system in Bangladesh and explore new ways of helping rural vulnerable communities adjust to climate change and variability. The project involves pilot testing and evaluation of climate smart practices and technologies in farmers field and provide policy inputs to the Government of Bangladesh. The key activities includes: establishment of participatory technology evaluation (PTE) trails with selected farmers; design and implement monitoring framework for PTE trails; and analyses of PTE trail results to identify the most promising climate-smart interventions and contribute to the out-scaling of the outputs. |

Partner #5**Institution:** PAC - Practical Action Consulting**CCAFS Partner(s) allocating budget:** <Not defined>**Contacts**

| Type | Contact | Responsibilities and contributions |
|---------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partner | Joshi, Milan K. <Milan.Joshi@practicalaction.org.np> | This partner is testing and evaluating the portfolios of climate smart technologies and practices in the farmers fields at different locations involving with private companies in Nepal. This partners is testing and evaluation of CSA technologies in three crops (Rice, Maize and Sugarcane) in flood and drought prone areas of eastern Nepal. |

Partner #6**Institution:** ICRISAT - International Crops Research Institute for the Semi-Arid Tropics**Contacts**

| Type | Contact | Responsibilities and contributions |
|---------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partner | Whitbread, Anthony <a.whitbread@cgiar.org> | This partner is testing and evaluating the portfolios of climate smart technologies and practices in rainfed/dry land agricultural system in India. This partner generates evidences of CSA/CSV for scaling out in the rainfed/dry land agricultural system. |

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Partner #7**Institution:** RPL SAs - RPL South Asia**Contacts**

| Type | Contact | Responsibilities and contributions |
|---------|----------------------------------------------|------------------------------------|
| Partner | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> | Project M&E |

Partner #8**Institution:** LI-BIRD - Local Initiatives for Biodiversity, Research and Development**CAAFS Partner(s) allocating budget**

RPL SAs - RPL South Asia

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partner | Paudel, Bikash <bpaudel@libird.org> | This partner involves in piloting, evaluation and developing plans/schemes for scaling out different models of Climate-Smart Village in Nepal. The partner will provide: evidences related to economic, social and environmental impacts of different CSA practices and CSV models; comparative advantages of CSV models in terms of social, economic and environmental benefits and their suitability across different agro-ecological zones; operation plans for scaling up/out of CSV models including financial and institutional mechanisms, implementation strategies and scaling out and implement CSV models in Nepal. |

Partnerships overall performance over the last reporting period: All partners of this project have played a major role in designing and implementation of several Climate-Smart Agricultural (CSA) technologies and practices in different agro-ecological zones. They have significantly contributed to test and evaluate CSA technologies and practices, review of policy and plans, and data collection to generate evidences of CSA and scaling out through Climate-Smart Village (CSV) approach. Major partners are ensuring their deliverable on time and regularly engaging with key stakeholders. Project partners have also facilitate in engagement and communication with CSA/CSV key stakeholders. But, some partners were discouraged due to the significant budget cut in 2015.

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Lessons regarding your partnerships and possible implications for the coming reporting cycle: This project is helping to bring CGIAR centers, NARS and private sectors together for participatory evaluation of diverse Climate-Smart Agricultural (CSA) technologies/practices in farmer's fields and NARS's research stations. Climate-Smart Village (CSVs) pilots implemented by different partners are becoming learning platforms for climate-smart interventions in agriculture and allied sectors. Partners are also able to bring many key stakeholders to the CSV pilot sites and sharing knowledge and information to them. These activities and involvement of national and local partners could help to develop scaling up/out schemes for CSA/CSV and integrate into adaptation policies and programs in the coming planning cycle.

Submitted on 2016-03-03 at 13:52 UTC

3. Locations

| Project level | Latitude | Longitude | Name |
|---------------|----------------|----------------|------------|
| Region | Not applicable | Not applicable | South Asia |
| Country | Not applicable | Not applicable | Bangladesh |
| Country | Not applicable | Not applicable | India |
| Country | Not applicable | Not applicable | Nepal |

4. Outcomes

4.1 Project outcome narrative

Project outcome statement

The first project activity will demonstrate the evidences of climate-smart village program in supporting sustainable agricultural development in different agro-ecological zones.

Second project activity will result in three National Adaptation Plans and State Action Plans at sub-national level for India. Improved weather thresholds will be developed for millions of farmers. Agencies responsible for food security planning and monitoring will start using CCAFS science and tools for increased adaptive capacity to climatic risks.

Third project activity will help to achieve CCAFS regional targets within the impact pathway and pave the way to accomplish regional vision of large-scale investment in science-informed climate smart agriculture practices, institutions and policies in the region, leading to long-term food security and poverty alleviation

Annual progress towards outcome (end of 2015): Evidences of climate-smart agricultural practices and technologies in the different agro-ecological zones of Bangladesh, India and Nepal

Bio-physical, socio-economic and institutional implications of climate-smart village model across the agro-ecological zones

Annual progress towards project outcome in the current reporting cycle (2015): Different models of Climate-Smart Village (CSVs) have been developed and started to test in several locations of Nepal in collaboration with NARC, NGO, District Agriculture Offices and Village Development Committees. Several climate smart interventions in agriculture sector including investment and institutional mechanism are being tested and evaluated. The project has made steady progress on integrating the CSV plans with the local development plans and identified the areas for local resource leverages and co-investment to promote climate smart technologies in the villages. A community based solar irrigation cooperative has been established in Gujarat in partnership with IWMI and WLE to further evaluate a new institutional mechanism to scale out CSA and to enhance farmers income and to meet energy needs of the region.

Baseline surveys, selection of farmers and formation of farmers groups, feasibility study for community based solar irrigation system, and identification, prioritization and piloting of CSA technologies/practices have been done in 2015.

The project also has developed a pool of climate smart agricultural technologies and practices, evaluated based on economic, environmental and social indicators and prioritized based on local context and farmers preferences. This project has implemented portfolios of climate smart interventions such as fish micro-habitat development and promotion of Sorjan agriculture in the coastal agriculture system in south-west Bangladesh, Rajapur. In 2015, this project has collected data and developed a plan for scaling out CSA practices in the project areas. This information will be used to evaluate the CSV model in Bangladesh. CSV development and evaluation framework has developed. Data collection for bio-physical, socio-economic and institutional evaluation of different models of CSVs in India, Bangladesh and Nepal is on-going and will be completed by 2016.

Submitted on 2016-03-03 at 13:52 UTC

Communication and engagement activities have contributed to achieving your Project outcomes: CCAFS South Asia team has extensively engaged with the partners and provided technical guidance and knowledge for designing, implementation and M&E of the project. CCAFS has also involved in field visits, capacity building training, exposure of partner organizations to international knowledge forums, and M&E of the project activities in each sites. CCAFS- SA also regularly engaged with scientists and researchers, policy makers, investment partners, development institutions, farmers, and political leaders in all project locations to inform CCAFS project activities, potential outputs and use in climate change adaptation policies at national, sub-national and local levels.

Evidence documents of progress towards outcomes: [Progress reprot_CSA-CSV proejct_SA.pdf](#)

Annual progress towards outcome (end of 2016): Evaluate CSA practices and technologies in different agro-ecological zones of South Asia

Development of adaptation plan at least 1 national/sub-national level

Organize workshops under various CCAFS themes and engage with various stakeholders at regional, national and sub-national level

Annual progress towards outcome (end of 2017): NA

Annual progress towards outcome (end of 2018): NA

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: Evidences of climate-smart villages in different agro-ecological zones provide strong cases for large scale investment in climate smart agricultural practices, institutions and policies at sub-national and local levels. International organizations, national and state governments and private sector have shown keen interest to invest on and scale out CSV approach in order to promote CSA in various locations. Development of appropriate business and institutional models of CSV approach, communication and engagement with key stakeholders and strategic plan for scaling up/out of CSA/CSV would contribute to the CCAFS's Theory of Change and Regional Impact Pathway for the coming planning cycle in SA.

4.2 Contribution to CCAFS Outcomes

RP SAs - Outcome 2019: Governments and global organizations make rational decisions about mitigation based on local, regional and global evidences about mitigation potential in agriculture

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.

Submitted on 2016-03-03 at 13:52 UTC

| 2019 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated |
| Target narrative: This project will also assess the GHG mitigation options in different agriculture systems across the region. The target will be filled after the completion of assessment of mitigation potential in agriculture. | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

| 2015 | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 0.0 |
| Target narrative: NA | | |
| Narrative for your achieved targets, including evidence: This project does not focus very much on mitigation issues, however, analysis of synergies and trade-off between adaptation and mitigation in the portfolios of CSA practices and technologies is on-going. Mitigation potential under different portfolios of CSA options will be included in the final report in 2016. | | |
| 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 applicable for this project | | |

| 2016 | |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: 0 | Cumulative target to date: Cannot be Calculated |
| Target narrative: NA | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: NA | |

| 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> | | |

Submitted on 2016-03-03 at 13:52 UTC

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

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: Three initiatives | Cumulative target to date: Cannot be Calculated |
| Target narrative: This project supplements flagship projects to achieve regional outcome targets in South Asia. CCAFS South Asia targets to develop three national or subnational level CSA initiatives informed by CCAFS Science leading to at least 50,000 to 10 million beneficiaries. | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

| 2015 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 0.0 |
| Target narrative: No target | | |
| Narrative for your achieved targets, including evidence: This project is not generating this outcome directly. But the outputs of project will supplement flagship projects to develop or improve climate information based agro-advisories for the farmers. | | |
| 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 applicat | | |

| 2016 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Target value: 2 | Cumulative target to date: Cannot be Calculated |
| Target narrative: This project supplements flagship projects to develop two national or subnational level CSA initiatives informed by CCAFS science leading to at least 50,000 to 10 million beneficiaries | |

Submitted on 2016-03-03 at 13:52 UTC

| 2016 |
|-------------------------------------------------------------------------------------------------------------------------------------------------|
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 40% beneficiaries would be women and youth. |

| 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> | | |

RP SAs - Outcome 2019: Governments, private sector and farmer organizations increase their investments and develop incentive mechanisms to promote wide scale adoption of improved climate-smart practices and technologies

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: Three initiatives | Cumulative target to date: Cannot be Calculated |
| Target narrative: This project supplements flagship projects to achieve regional outcome targets in South Asia. CCAFS South Asia targets to develop three national or subnational level CSA initiatives informed by CCAFS Science leading to at least 50,000 to 10 million beneficiaries | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

| 2015 | | |
|-----------------------------|----------------------------------------------------|----------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 0.0 |
| Target narrative: No target | | |

Submitted on 2016-03-03 at 13:52 UTC

| 2015 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Narrative for your achieved targets, including evidence: In 2015, this project has focused on piloting CSA/CSVs activities in different agro-ecological zones, collection of data and development of implementation and evaluation framework. In coming planning cycle, project will generate evidences of CSA/CSVs, develop CSA/CSV scaling up/out plans and provide required information and plans to the policy makers/governments to integrate into the adaptation programs at national, sub-national and local level.</p> |
| <p>The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined></p> |
| <p>Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: Gender and social inclusion is one of the major components in CSA/CSV project. CSV project in Nepal includes more than 50% female participants and women's farmers group are included in the development of solar based irrigation system. Identification, prioritization and implementation of gender friendly CSA technologies and practices, inclusion of small and marginal farmers and development of gender segregated data in relation to CSA are on-going and complete report will be submitted in 2016.</p> |

| 2016 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Target value: 2 | Cumulative target to date: Cannot be Calculated |
| Target narrative: CCAFS South Asia supplement flagship projects to develop two national or subnational level CSA initiatives informed by CCAFS Science leading to at least 50,000 to 10 million beneficiaries | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 40% beneficiaries would be women and youth. | |

| 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> | | |

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

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| 2019 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: Three initiatives | Cumulative target to date: Cannot be Calculated |
| Target narrative: Project activities on flagship 1, 2, and 3 outcomes will complement to this outcome. The project outputs supplement flagship projects to achieve regional outcome targets in South Asia. CCAFS South Asia targets to develop three national or sub national level CSA initiatives informed by CCAFS Science in coordination with flagship projects in the region. | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

| 2015 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 0.0 |
| Target narrative: No target | | |
| Narrative for your achieved targets, including evidence: This project supplements flagship projects to develop at least two national or sub-national level CSA initiatives informed by CCAFS science. Development of scaling up/out plans are on-going and will be completed by 2016. | | |
| 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: Collection of gender segregated data in relation to CSA is on-going and this information will be included help to include gender and social issue in the CSA/CSV scaling out/up plans and programs in different agro-ecological and socio-economic conditions. | | |

| 2016 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: 1 | Cumulative target to date: Cannot be Calculated |
| Target narrative: This project supplements flagship projects to develop at least one national or subnational level CSA initiatives informed by CCAFS Science leading to at least 50,000 to 10 million beneficiaries | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 40% beneficiaries would be women and youth. | |

| 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> | | |

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| 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

no

Collaborating with other CRPs: <Not defined>

Submitted on 2016-03-03 at 13:52 UTC

4.4 Outcome case studies

There is not an Outcome Case Study added.

Submitted on 2016-03-03 at 13:52 UTC

5. Project outputs

5.1 Overview by MOGs

| Major Output groups - 2019 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>FP3 - MOG # 1: Methods and data for quantifying low-emissions agriculture options appropriate to smallholder farmers</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>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</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, SEA)</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>FP1 - MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (LAM, WA, EA, SA, SEA)</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |

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FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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>

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>

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>

FP2 - MOG # 2: New knowledge, capacity, and tools supporting the provision of equitable climate services for farmers are developed

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>

FP2 - MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries

Brief bullet points of your expected annual 2019 contribution towards the selected MOG

Systematic deviations, that are also useful for boundaries of agroclimate zones and farmer field schools

Brief plan of the gender and social inclusion dimension of the expected annual output

<Not defined>

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Major Output groups - 2014

FP3 - MOG # 1: Methods and data for quantifying low-emissions agriculture options appropriate to smallholder farmers

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 # 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>

FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, 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>

Submitted on 2016-03-03 at 13:52 UTC

FP1 - MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (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>

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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>

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>

Submitted on 2016-03-03 at 13:52 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 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>

FP2 - MOG # 2: New knowledge, capacity, and tools supporting the provision of equitable climate services for farmers are developed

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>

FP2 - MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries

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

Submitted on 2016-03-03 at 13:52 UTC

FP3 - MOG # 1: Methods and data for quantifying low-emissions agriculture options appropriate to smallholder farmers

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:

This project has identified the technologies and practices which have GHG mitigation potential including adaptation of climatic risks. Technologies and practices that have mitigation potential were included in the field evaluation at different locations.

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:

Not directly applicable for this project. Because this project is not exclusively looking at gender and social inclusions dimension in the project outputs

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:

Several high level engagements and communication meetings with key stakeholders of CSA/CSV have been done. Project has also reviewed current policy and institutional framework and CSA initiatives in different countries to provide inputs to develop scaling up/out plans.

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 review of current policy and institutional framework and CSA initiatives has assessed a potential of inclusion of gender and social issues in the CSA scaling up/out plans and programs at national, sub-national and local levels.

Submitted on 2016-03-03 at 13:52 UTC

FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, 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:

This project has developed CSV development framework, inventory of climate smart interventions including CSA practices and technologies and laid outline for scaling up and implementation plan. The project has also collected primary and secondary information to develop business and institutional models of CSV approach.

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:

Gender segregated data are collected

FP1 - MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (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:

This project has implemented CSA interventions in collaboration with NARS, agriculture universities, department of agriculture and local partners. CCAFS SA team has strategically engaged with key stakeholders and local partners to provide technical know-how and capacity building in project design, implementation and M&E.

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:

Potential of inclusion of gender and small/marginal farmers in the CSV approach has assessed.

Submitted on 2016-03-03 at 13:52 UTC

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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:

Several CSA technologies and practices were identified and prioritized based on location specific climatic risks and stakeholders priorities (particularly farmers and local agriculture development offices). Pilot studies have started in collaboration with farmers, local governments, agricultural offices in different agro-ecological zones.

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:

CSA technologies and practices that could be relevant for gender and small/marginal farmers were identified and included in the pilot studies in the different agro-ecological zones.

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:

Primary and secondary data were collected for developing business models including bio-physical, socio-economic and trade-off analyses.

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:

Gender segregated data were collected to provide inputs into the business and institutional models of scaling out CSA/CSVs. .

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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:

Several high level engagements and communication meetings with key stakeholders of CSA/CSV have been done. Several capacity building training on designing, implementation and M&E of CSA/CSV program at sub-national and local level were conducted. Baseline survey and CSA prioritization activities were also conducted.

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:

Gender and social issues were included in the project design, implementation and M&E framework.

FP2 - MOG # 2: New knowledge, capacity, and tools supporting the provision of equitable climate services for farmers are developed

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:

Technical feasibility analysis of implementing ICT based agro-advisory system in pilot climate smart villages has been done. This project has identified the local vendor which disseminates mobile-based agro-advisory services in the CSV sites.

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:

Not applicable

FP2 - MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries

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:

This project has conducted climate risk assessments at sub-national and local levels and linked to CSA interventions to mitigate the climatic risks. These information enhances the capacity of data providers at sub-national and local levels o meet the demands of climate service beneficiaries.

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:

Not applicable.

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Major Output groups - 2016

FP3 - MOG # 1: Methods and data for quantifying low-emissions agriculture options appropriate to smallholder farmers

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>

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

<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output

<Not defined>

FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, 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>

FP1 - MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (LAM, WA, EA, SA, SEA)

Brief bullet points of your expected annual 2016 contribution towards the selected MOG

NA

Brief plan of the gender and social inclusion dimension of the expected annual output

NA

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FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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>

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>

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

<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output

<Not defined>

FP2 - MOG # 2: New knowledge, capacity, and tools supporting the provision of equitable climate services for farmers are developed

Brief bullet points of your expected annual 2016 contribution towards the selected MOG

Increasing awareness about weather forecasts and own observations, analysing actions is expected to lead to new knowledge and improved adaptive capacity

Brief plan of the gender and social inclusion dimension of the expected annual output

Provide guidelines to mainstream gender in adaptation planning and implementation of projects

Submitted on 2016-03-03 at 13:52 UTC

FP2 - MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries

Brief bullet points of your expected annual 2016 contribution towards the selected MOG

agroclimate handbook available at province and district level (there were none available) based on local analyses, farming systems and needs

Compare forecasts and public metstation observation with observations done in village to compare differences

Brief plan of the gender and social inclusion dimension of the expected annual output

agroclimate handbooks and advisories take in to account local needs of W&EM (content, language, format etc)

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: Two lessons: i) Framework and indicators based project design, implementation and M&E can help to generate good outputs in CSA/CSV related projects, ii) partnership and engagement with NARS and government at different levels can help to generate evidences, development of scaling up/out plans/programs and dissemination of results.

Submitted on 2016-03-03 at 13:52 UTC

5.2 Deliverables

Deliverable #1

| Main Information | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Evidences for viability of climate-smart interventions in major crops and cropping systems | |
| 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: Reports, Reference Materials and Other Papers | Sub Type: Research report |
| Year of expected completion: 2016 | |
| Status: On-going | Justification for cancelling the deliverable: Identification, prioritization, testing and evaluation and evidence generation based on primary and secondary data are completed in some locations and on-going in several location. |

| Next-user |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, private sector, farmers, researchcheers, donors |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge on climate smart interventions and practice 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 |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Paudel, Bikash <bpaudel@libird.org>, LI-BIRD - Local Initiatives for Biodiversity, Research and Development |
| Partner #2: Gairhe, Janmajaya <janmajaya@gmail.com>, IAAS - Institute of Agriculture and Animal Science |
| Partner #3: Meisner, Craig <C.Meisner@cgiar.org>, WorldFish |
| Partner #4: Joshi, Milan K. <Milan.Joshi@practicalaction.org.np>, PAC - Practical Action Cousulting |

| Deliverable Ranking | |
|-------------------------------------------------------------|---|
| Address gender and social inclusion aspect | 3 |
| Potential for/ actual contribution to outcomes | 5 |
| Level of shared ownership (partnerships across org.) | 3 |

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| | |
|---------------------------------------------------------------------|---|
| 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: Available after the completion of project |
| 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: Institutional and business models of climate smart village implementation in different agro-ecological zones | |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) | |
| 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: Collection of primary and secondary information, review of policies and institutional involvement, and evaluating CSV approach in multiple-dimensions (economics, social and institutional aspects) |

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| Next-user |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, private sector, farmers |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge and skills on climate-smart interventions and practice changes |
| 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 |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Paudel, Bikash <bpaudel@libird.org>, LI-BIRD - Local Initiatives for Biodiversity, Research and Development |

| Deliverable Ranking | |
|---------------------------------------------------------------------|---|
| Address gender and social inclusion aspect | 3 |
| Potential for/ actual contribution to outcomes | 5 |
| Level of shared ownership (partnerships across org.) | 3 |
| What is your personal perspective of the importance of this product | 4 |

| 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 |
|--------------------------|
|--------------------------|

Submitted on 2016-03-03 at 13:52 UTC

Deliverable files

<Not defined>

Deliverable #3

| Main Information | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Report on gender and climate change adaptation strategies in agriculture | |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) | |
| 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: Many CSVs in Nepal are leading by women's group to implement solar-based irrigation system and implementation of CSA technologies and practices. A complete evaluation of gender and climate change adaptation through CSV approach will be completed in 2016. |

| Next-user |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, private sector, farmers |
| Knowledge, attitude, skills and practice changes expected in next-user: Capacity building and practice changes |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Involve in engagement through training and workshop and knowledge sharing |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Paudel, Bikash <bpaudel@libird.org>, LI-BIRD - Local Initiatives for Biodiversity, Research and Development |

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

Submitted on 2016-03-03 at 13:52 UTC

| 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: Barriers to CSV adoption and strategies to overcome them at national/sub-national levels | |
| 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: On-going | Justification for cancelling the deliverable: Collection of primary and secondary information, review of policies and plans, and evaluating CSV approach in multiple-dimensions (economics, social and institutional aspects) |

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| Next-user |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, private sector, farmers |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge and skills on climate-smart interventions and practice changes |
| 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 |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Paudel, Bikash <bpaudel@libird.org>, LI-BIRD - Local Initiatives for Biodiversity, Research and Development |
| Partner #2: Khatri Chhetri, Arun <A.Khatri-Chhetri@cgiar.org>, IWMI - International Water Management 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 | 5 |

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

| Deliverable Metadata |
|---------------------------------------------------------|
| Description: Meta data will be available in 2016 |
| 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 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: Ministry and Department of Agriculture, State and District Agricultural Offices, Villages and Local Communities, Farmers and Farmer-Producer-Organizations (FPOs) and private sector working in agriculture sectors (i.e. farm inputs, technologies, agri-business and ICTs) are playing different roles in the initial piloting phase. They are directly and indirectly involving in testing and evaluation of climate smart interventions in farmers fields and research farms.</p> <p>Different factors have motivated these key stakeholders to be involved in the CSA/CSV project. One key factor is investment opportunities in CSA/CSVs for all next users in different forms such as allocation of government budgets and subsidy in CSA technologies/inputs, private sector investment on CSA technologies and ICT for dissemination of value added agro-advisories and market information, and farmers and farmers group's investment to improve farm productivity and income.</p> <p>In the initial phase, this project provided knowledge and skill for identification of CSA interventions in CSVs based on local climatic risks, prioritization of CSA technologies and practices based on their knowledge and investment capacity, skills to implement CSA interventions and integration of CSA technologies and practices in the existing agricultural production systems at different agro-ecological zones.</p> |
| <p>Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: This project has brought key stakeholders on board from the beginning. Stakeholder consultations for site selection, identification of CSA practices and technologies, prioritization and selection of CSA technologies for piloting in each CSVs have encouraged all next user to be involved in the project. CCAFS, CGIAR Centers and local partners are continuously engaging and facilitating key stakeholders to take ownership of project outputs.</p> |
| <p>Reported deliverables serve as evidence towards this achieved change: All deliverable are due in 2016</p> |
| <p>Lessons and implications for the next planning cycle: Regular engagement and communication with key stakeholders, capacity building of local partners as well as government officials in project design and implementation, development of a complete guideline of CSA/CSV project implementation linking with climatic risks and local agricultural production systems are key lessons need to be considered for the next planning cycle. In next phase, development of knowledge products such as policy briefs, CSA/CSV schemes, compendium of CSA technologies and practices can provide key inputs for scaling out CSA in large areas.</p> |

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5.4 Project highlights

| Project highlight Information #1 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Designing Climate Smart Interventions in Agriculture: Case Study in Nepal | |
| Author: Arun Khatri-Chhetri and Bikash Poudel | Subject: Climate Smart Agriculture |
| Publisher: CCAFS-SA | Year: 2015 |
| Project highlights types Participatory action research Successful communications Gender and social inclusion Policy engagement | <pre> graph TD subgraph STEP_1 [STEP 1] A[Development of CSA Pool] --> B[Selection of CSA] B --> C[Evidence Generation] C --> D[CSA Champions] end subgraph STEP_2 [STEP 2] E[Policy and Institutional Assessment] --> F[Extrapolation of CSA Evidences] F --> G[CSA Scaling up and Implementation Plans] end D --> E H[Documentation of CSA practices Mapping of current and potential CSA practices based on crops and cropping systems] -.-> A I[Multi criteria analysis Climate risks mapping] -.-> B J[Participatory evaluation Stakeholders' survey Review of literatures] -.-> C K[Select and develop portfolios of CSA practices based on crops and cropping systems] -.-> D L[GIS based modelling considering Geo-spatial and socio-economic data sets Economic and institutional models for scaling up and implementation of CSA] -.-> F M[Strategies, approaches and action plan for scaling up and implementation of CSA] -.-> G </pre> <p>Fig: Framework for designing CSA interventions and scaling up pathway</p> |
| Start date: 2015-01-01 | End date: 2015-12-31 |
| Is global: Yes | |
| Country: | Keywords: Climate smart agriculture, scaling up, climate smart village |
| <p>Highlight description: In Nepal, many government policies and strategies such as National Adaptation Plan of Action (NAPA), Climate Change Policy 2011, Local Adaptation Plan of Action (LAPA), Agriculture Development Strategy 2014, Low Carbon and Economic Development Strategy and Nepal Biodiversity Strategy and Action Plan 2014-2020 highlights the importance of climate change adaptation in agriculture. These policies also urge to identify, test and validate a range of Climate Smart Agricultural (CSA) practices and technologies across the agro-ecological regions and incorporate into the agricultural development plan and programs at the local level. Thus, identification and prioritization of climate-smart agricultural practices and technologies based on climatic risks in different agro-ecological regions and integration into the climate change adaptation plan/program could play a crucial role to develop a climate resilient agricultural system in Nepal.</p> <p>This case study assesses spatial and temporal climatic risks in agriculture, identification and prioritization of CSA technologies and practices based on climatic risks, cropping and farmers preferences, and test and evaluate portfolios of CSA in farmers field in collaboration with NARS and local partners. Results of this study will complement to develop CSA scaling up/out plan/schemes for Nepal. Key stakeholders of the project include Ministry of Agricultural Development (MoAD), Ministry of Science, Technology and Environment (MoSTE), Ministry of Federal Affairs and Local Development (MoFALD), Department of Agriculture (DoA), Nepal Agriculture Research Council (NARC), District Development Committees (DDCs), District Agriculture Development Offices (DADOs), and VDC Council.</p> | |

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Introduction / Objectives: Identify, test and screen suitable CSA practices for the different geographic, agro-ecological and socio-economic contexts of Nepal by involving farmers, researchers, and extension agencies;

Develop scaling up pathways and implementation plans to champion CSA practices in the country with active participation of local communities and government stakeholders; and

Enhance the capacity of government stakeholders to effectively implement sustainable CSA practices in the country.

Results: This study has developed a pool of CSA technologies for different agro-ecological zones (Terai, Hill and Mountain), prioritize CSA technologies based on expert judgement, policy makers preferences and farmers priorities. Detail baseline survey of project site has been conducted to collect information on socio-economic, bio-physical and environmental resources at household and community level. A collaboration has been developed with District Development Committees (DDCs) and Village Development Committees (VDCs) to promote CSA technologies through Climate Smart Villages (CSVs) approach. This study has also identified areas for local resource leverage and co-investment to promote climate smart technologies in the villages.

Project has assessed the major climate related risks at local level and current cropping calendar and designed portfolio of climate smart interventions. The on-farm demonstration and evaluation plots for climate smart interventions are started in 26 CSVs. In the CSV locations a detailed implementation plan has been developed for piloting and evaluation of CSVs with solar-energy based irrigation systems. The installation of all solar-energy based irrigation systems are expected to be complete by March 2016. After completion of the installation, about 197 hectare of the land is expected to be irrigated providing direct benefit to about 381 farming households by allowing them to increase cropping intensity and switch to high value crops. Project has also started the preparatory works for piloting ICT based agro-advisory services and promoting agriculture insurance programs in the CSVs. In coming planning cycle, project will generate evidences of CSA/CSVs, develop CSA/CSV scaling up/out plans and provide required information and plans to the policy makers/governments to integrate into the adaptation programs at national, sub-national and local level.

Partners: LIBIRD, CCAFS, CDKN, District Agriculture Offices, Village Development Communities and Farmers Groups

Links / Sources for further information: <http://cdkn.org/2015/06/feature-scaling-up-climate-smart-agriculture-in-nepal/>
https://ccafs.cgiar.org/news/key-stakeholders-met-launch-scaling-climate-smart-agriculture-project-nepal#.VsxHk_krJD8

6. Activities

| Activity #1 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Title: Creating evidence base of CSA interventions in different agro-climatic zones | |
| Description: This activity will involve to identify, test and evaluate location specific CSA practices and technologies through a participatory approach. Individual and aggregate cost-benefits of different practices and technologies along with synergies and trade-offs are explored. This will lead to develop portfolios of CSA technologies and practices linking with potential climatic risk management in agriculture. The activity will also identify and evaluate constraints and barriers to adoptions of technologies along with ways to overcome them. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Khatri Chhetri, Arun <A.Khatri-Chhetri@cgiar.org>, IWMI - International Water Management Institute | |

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Status: On-going</p> | <p>Justification: Climate risk analysis, identification of location and crop/cropping system specific CSA practices and technologies, prioritization, and piloting of selected technologies/practices have started in 2015. Project team has designed and implemented different portfolios of CSA intervention in farmers fields in collaboration with local governments, agriculture offices and research institutes. CCAFS SA team has also involved in engagement and communication with key stakeholders and partners at national, sub-national and local levels. Stakeholders and partners inputs were collected to integrate the evidences of CSA/CSV into the scaling up/out plans and programs.</p> <p>In Nepal, official contacts has been made with with local and district level stakeholders such as District Development Committees (DDCs) and Village Development Committees (VDCs) and collaboration has been started to develop the CSVs in different locations. This project has identified the areas for local resource leverage and co-investment to promote climate smart technologies in the villages. WorldFish has continued working with CCAFS-SA for climate-smart management of aquatic farm ecosystems in coastal regions of Bangladesh. In 2015, WorldFish further expanded research on ponds fish culture including climate smart practices, farmer field school experiments for vertical space vegetable cultivation at the homestead level, and development of micro-habitat for fishes on farmers' fields. CIMMYT, IRRI, IWMI, Bioversity and IFPRI have continued many of their works in CSV pilots areas in India. This project has started to collect data and past reports related to CSVs in India to evaluate the CSV approach and develop further strategy for scaling up/out in large areas.</p> |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Activity #2

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <p>Title: Conceptualisation and evaluation of various business and institutional models to scale-out CSVs in South Asia</p> | |
| <p>Description: This activity involves to test and evaluate different models of CSVs including institutional and investment mechanisms to promote CSA. Several portfolios of adaptation options will be implemented in the CSVs with the involvement of local government, farmers and their groups, private sector, researchers from NARS, CGIAR centers and non-government sectors. This will also explore potential of consolidation and convergence of several adaptation options at village level and develop institutional and business models for scaling out CSVs in the different agro-ecological zones.</p> | |
| <p>Start date (dd-MM-yyyy): 01-01-2016</p> | <p>End date (dd-MM-yyyy): 31-12-2016</p> |

Submitted on 2016-03-03 at 13:52 UTC

| | |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Leader: Khatri Chhetri, Arun <A.Khatri-Chhetri@cgiar.org>, IWMI - International Water Management Institute | |
| Status: On-going | Justification: Draft theoretical framework of Climate Smart Villages (CSVs) has developed. This framework includes key steps that need to be followed in order to develop and implement CSV program. The CSV framework broadly includes climate risk analysis, identification of CSA interventions, research and development of CSA technologies/practices, and scaling up/out for large scale adoption. Detail household and village level surveys have been done in many CSV locations. Surveys helped to collect wide range of information such as socio-economic, bio-physical and environmental indicators of CSVs. Results from surveys and field level test and evaluation of CSA intervention will be used to evaluate various business and institutional models of CSVs. All outputs from the activity A 300 will provide inputs for this activity. |

Activity #3

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Title: Regional Engagement, Communication and Capacity Building on CSA | |
| <p>Description: This activity will focus to communicate evidences of CSA/CSVs to farmers, governmental and non-governmental organizations and policy makers. This adds value in farmers as well as policy makers' decision making process by providing information on suitability of various adaptation options under different climatic conditions and investment needs.</p> <p>The communication and engagement activities will ensure that outputs of CCAFS projects in SA have maximum impact and reach as many stakeholders and key next users as possible. The SA team will involve generating science-based information for climate change adaptation and mitigation in agriculture and developing communication products and disseminate them.</p> | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>, RPL SAs - RPL South Asia | |

Submitted on 2016-03-03 at 13:52 UTC

| | |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Status: On-going</p> | <p>Justification: CCAFS- SA team members have regularly engaged with scientists, researchers, policy makers, investment partners, development institutions, farmers organizations and political leaders to strengthen stakeholders capacity in designing, implementation and M&E of CSA/CSV projects in the region. Key stakeholders met in Kathmandu on 22nd April to discuss how climate-smart agriculture could be scaled-out through the climate smart village model. The workshop aimed to build a common understanding on the relevance of climate-smart village programme in Nepal and to disseminate findings and recommendations to key stakeholders to outline an enabling environment for scaling out climate-smart villages, including the supporting policies, strategies, knowledge networks, investments and institutional mechanisms. Nearly 60 participants from the government, civil society groups, private firms, multilateral and bilateral development organisations, were present. Similarly, LI-BIRD and CCAFS-SA organized a meeting in July to bring key stakeholders of CSA/CSV together and share project activities and implementation plan in Nepal. Nearly 50 participants from the government, private sector, non-governmental organizations and research institutes attended the meeting. The government participants were from the Ministry of Agricultural Development (MoAD), Ministry of Federal Affairs and Local Development, National Agriculture Research Council (NARC), District Agriculture Development Office (DADO) and District Development Committee (DDC) in the project districts.</p> <p>CCAFS South Asia hosted three day workshop (3-4 September) organized by Flagship 1 in India and brought experts to share knowledge and lesson learnt from climate smart villages in Africa, Latin America, South Asia and South East Asia. This workshop has provided opportunity to steer CSVs in common directions to stimulate cross regional learning, harmonize scientific approaches and integration of expert's feedback in the existing CSV projects in South Asia. In this month (8-9 September) CCAFS South Asia has also facilitated visit of the business leaders from various companies such as ITC, Tata, PepsiCo, Olam, UPL, Jain Irrigation and sab miller who are members of the World Business Council on Sustainable Development (WBCSD). The team has visited climate smart villages in Haryana State of India and interacted with the scientists and local farmers. The goal of the visit was to explore the business cases for CSA/CSVs to build a locally</p> |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>relevant farming approach of developing resilient agricultural and food systems.</p> <p>https://ccafs.cgiar.org/climate-smart-village-knowledge-exchange#.VtAYIyh96M8 https://ccafs.cgiar.org/blog/india-surge-interest-make-agriculture-climate-smart#.VtAfMCh96M8 https://ccafs.cgiar.org/news/key-stakeholders-met-launch-scaling-climate-smart-agriculture-project-nepal#.Vs_7LSh96M8</p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Activity #4 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Enhancing the adaptive capacity of women and youth to climatic risks in agriculture | |
| Description: The activity aims to strengthen gender and youth's capacity for climate risk management through their involvement in project design, implementation and M&E process and several capacity building training. Role of gender and youth in CSA project design, implementation and M&E will be assessed and mainstreaming gender issues into participatory action research on climate change and agriculture. This activity will also focus on identification of gender friendly CSA technologies and mechanism to scaling out through existing climate change adaptation policies and plans. | |
| Start date (dd-MM-yyyy): 01-07-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Khatri Chhetri, Arun <A.Khatri-Chhetri@cgiar.org>, IWMI - International Water Management Institute | |
| Status: On-going | Justification: Involvement of women and youth in the development of climate smart villages was assured in the CSV pilots in Nepal. About 50% CSV pilots are implementing by women groups. This project has started to collect gender disintegrated data on climate smart agriculture, women's role in designing, implementation and M&E of CSV project, and potential of addressing gender, youth and social issues in scaling up/out of CSA/CSVs in different agro-ecological zones and cropping systems. |

Lessons regarding your project activities and possible implications for the coming planning cycle: In-depth data collection and analyses, use of data/results as inputs for simulation modeling, development of business and institutional models, further strengthen engagement with key stakeholders of CSA/CSV, and develop CSA/CSV scaling up/out plan/scheme aligned with current climate change adaptation policies at national, sub-national and local levels.

Submitted on 2016-03-03 at 13:52 UTC

7. Leverages

| Leverage #1 | |
|----------------------------------------------------------------|----------------------------------|
| Title: Promoting Climate Resilient Agriculture in Nepal | |
| Partner name: PAC - Practical Action Consulting - Nepal | |
| Year: 2015 | |
| Flagship: FP1: Climate-smart practices | Budget: US \$2,500,000.00 |

| Leverage #2 | |
|----------------------------------------------------------------------------------------|--------------------------------|
| Title: Scaling out climate smart agriculture in Nepal | |
| Partner name: CDKN - Climate and Development Knowledge Network - United Kingdom | |
| Year: 2015 | |
| Flagship: FP1: Climate-smart practices | Budget: US \$800,000.00 |

Submitted on 2016-03-03 at 16:56 UTC

Title: Scaling up Climate-Smart Agriculture (CSA) Practices and Technologies Across South Asia

| | | | |
|------------------------------------|-------------------------------------------------------------------|--------------------------------------|----------------------------------------------|
| Start date (dd-MM-yyyy) | 01-01-2015 | End date (dd-MM-yyyy) | 31-12-2016 |
| Management liaison | RP SAs - South Asia Region | Mgmt. liaison contact | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> |
| Lead organization | IWMI - International Water Management Institute - Sri Lanka | Project leader | Shirsath, Paresh B <p.bhaskar@cgiar.org> |
| Project type | CCAFS CORE | 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 |
| FP1: Climate-smart practices | |
| FP3: Low Emissions Agricultural Development | |
| FP4: Policies and Institutions for Climate-Resilient Food Systems | |

Bilateral project(s) contributing to this project

This project does not have Bilateral projects

Summary

This project primarily integrates evidences of CSA, institutional and financial assessments and stakeholders' feedbacks to develop scaling up and scaling out plans for CSA. These plans setup adaptation pathways of CSA/CSV including capacity building programme, institutional and financial mechanisms, and potential costs and benefits of the programme implementation. This project will supplement SA regional program in terms of models, data and tools relating to all four flagships and will also support continuation of few selected past initiatives relating to crop yield monitoring, prioritization of CSA, development of agricultural NAPs/SAPs and improvement of triggers for weather based crop insurance schemes. This project will also involve in horizontal scaling out of adaptation options as well as vertical scaling up through integration in to current adaptation policies and plans across the region. CCAFS South Asia team will strategically engage with various stakeholders by organizing workshops, trainings and other meetings.

Submitted on 2016-03-03 at 16:56 UTC

2. Partners

Partner #1 (Leader)

Institution: IWMI - International Water Management Institute

Contacts

| Type | Contact | Responsibilities and contributions |
|----------------|----------------------------------------------|------------------------------------------------------------|
| Project Leader | Shirsath, Paresh B <p.bhaskar@cgiar.org> | Activity 2014-307 *Leader*. Activity 2014-308 *Leader*. |
| Partner | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> | Activity 2014-309 *Leader*. Activity 2014-311 *Leader*. |

Partner #2

Institution: WFP - World Food Programme

CCAFS Partner(s) allocating budget

RPL SAs - RPL South Asia

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|-------------------------------------------|------------------------------------|
| Partner | Kanel, Damoder <damodar.kanel@wfp.org> | Activity 2014-307 *Partner*. |

Partner #3

Institution: Natural Resources Management Center

CCAFS Partner(s) allocating budget

RPL SAs - RPL South Asia

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|----------------------------------------|------------------------------------|
| Partner | Kadupitiya, H.K. <nrmcdoa@ltnet.lk> | Activity 2014-307 *Partner*. |

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Partner #4**Institution:** CEGIS - Center for Environmental and Geographic Information Services**CCAFS Partner(s) allocating budget**

RPL SAs - RPL South Asia

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|--------------------------------------------|------------------------------------|
| Partner | Khan, Malik Fida A. <mkhan@cegisbd.com> | Activity 2014-308 *Partner*. |

Partner #5**Institution:** eeMausam Weather Risk Management Services Private LTD**CCAFS Partner(s) allocating budget**

RPL SAs - RPL South Asia

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|---------------------------------------------------|------------------------------------|
| Partner | Rao Gattineni, Srinivasa <rao.gs@eemausam.com> | Activity 2014-309 *Partner*. |

Partner #6**Institution:** ICAR - Indian Council of Agricultural Research**CCAFS Partner(s) allocating budget**

RPL SAs - RPL South Asia

Contacts

| Type | Contact | Responsibilities and contributions |
|------|---------|------------------------------------|
|------|---------|------------------------------------|

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| | | |
|---------|---------------------------------------|------------------------------|
| Partner | Rao, Srinivasa <director@crida.in> | Activity 2014-309 *Partner*. |
|---------|---------------------------------------|------------------------------|

Partner #7**Institution:** AIC - Agriculture Insurance Company of India Limited**CCAFS Partner(s) allocating budget**

| |
|--------------------------|
| RPL SAs - RPL South Asia |
|--------------------------|

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|---------------------------------------------------|------------------------------------|
| Partner | Plappallil, Joseph J. <pjjoseph@aicoindia.com> | Activity 2014-309 *Partner*. |

Partner #8**Institution:** RPL SAs - RPL South Asia**Contacts**

| Type | Contact | Responsibilities and contributions |
|---------|----------------------------------------------|----------------------------------------|
| Partner | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> | Project design, implementation and M&E |

Partner #9**Institution:** BAIF Development Research Foundation**CCAFS Partner(s) allocating budget:** <Not defined>**Contacts**

| Type | Contact | Responsibilities and contributions |
|---------|---------------------------------------|------------------------------------|
| Partner | Sohani, Girish <bbsohani@baif.org> | Contribute to project activities |

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Partnerships overall performance over the last reporting period: Project partners have played important role in design, development of project outputs and critical role during scaling out activities. Partners are ensuring their deliverable on time. Project partners also facilitated engagement with key stakeholders.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: There is greater need for capacity building of partners beyond workshops and very short training. It might be done through long work together sessions.

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3. Locations

| Project level | Latitude | Longitude | Name |
|---------------|----------------|----------------|------------|
| Region | Not applicable | Not applicable | South Asia |
| Country | Not applicable | Not applicable | Bangladesh |
| Country | Not applicable | Not applicable | India |
| Country | Not applicable | Not applicable | Sri Lanka |
| Country | Not applicable | Not applicable | Nepal |

4. Outcomes

4.1 Project outcome narrative

Project outcome statement

This project will result in three National Adaptation Plans and State Action Plans at sub-national level for India. Improved weather thresholds will be developed for millions of farmers. Agencies responsible for food security planning and monitoring will start using CCAFS science and tools for increased adaptive capacity to climatic risks.

Annual progress towards outcome (end of 2015): Development of three national/sub-national levels CSA adaptation plans. Improved thresholds of WBCIS for major crops.

Annual progress towards project outcome in the current reporting cycle (2015): This project has two distinct outcomes mapped to 2015 which are development of NAPs/SAP and design and development of improved weather triggers for WBCIS; there has been considerable progress on both and evident outcomes on one of them. The case studies for prioritization using CSAP toolkit in Bihar is done and has results in three articles which are in advanced stage of review, further work on NAP for agriculture in Bangladesh is near completion. CCAFS developed a modified methodology for the design and development of improved weather triggers. CCAFS analyzed that current schemes do not pay sufficiently because of poor triggers. Using several scientific techniques to examine crop-weather relationships CCAFS developed new region and crop specific rainfall triggers which enhance farmers' satisfaction several times. These triggers also ensure that agri-insurance business remains viable for the industry and premiums subsidy load on the government does not increase. Maharashtra state of India with a large population of resource poor rainfed farmers have adopted these new products and several insurance companies notably Agricultural Insurance Company of India have applied them in 2015 to provide rainfall risk cover to crops of almost one million farmers. CCAFS in South Asia is closely working with stakeholders in the region to enhance their capacity in yield forecasting. We work to make these tools accessible to national research institutes and policymakers to enable better policymaking and planning. The CCAFS Regional Agriculture Forecasting Toolbox (CRAFT) is being piloted as part of the Nepal Food Security Monitoring System (NeKSAP) and is a new initiative to incorporate crop yield forecasting in Nepal.

Communication and engagement activities have contributed to achieving your Project outcomes: CCAFS-South Asia team is continuously engaged with stakeholders (Government, insurance industry, researchers and farmers) through various platforms. CCAFS also participated in workshops and meetings organized by government agencies and insurance industry. CCAFS is regularly engaged with planners, researchers and partners for highlighting CCAFS research activities, brain-storming new ideas and lastly for out-scaling of CCAFS science outputs.

Evidence documents of progress towards outcomes: [P119EvidenceDocuments.pdf](#)

Annual progress towards outcome (end of 2016): Development of decision support system for food security planning under climate change and use in at least 1 national/sub-national level

Annual progress towards outcome (end of 2017): Need further planning

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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: Current progress in designing better insurance products and use by insurance company provide strong evidence for further improvement and scale out in other locations. Further improvement in weather index based insurance products and include into the on-going agriculture insurance schemes.

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: Two initiatives | Cumulative target to date: Cannot be Calculated |
| Target narrative: Develop two national/sub-national initiatives for crop yields monitoring and supplement flagship projects in disseminating climate and agro-advisory services through ICT, implementing crop insurance program and food stock planning. | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

| 2015 | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 1000000.0 |
| Target narrative: No target | | |
| Narrative for your achieved targets, including evidence: CCAFS has been working on developing improved rainfall triggers. Triggers are the threshold beyond which crop growth begins to suffer, and when payoffs to affected farmers can be determined. These rainfall triggers were developed for key crops (rice, pearl millet, soyabean and cotton) in Maharashtra state. The Government of Maharashtra has confirmed that the improved insurance products will be implemented in the kharif (winter) season of 2015 and will protect several thousand farmers from the vagaries of the weather. | | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | | |

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| 2015 | |
|------------------------------------------------------------------------------------------------------------------------------------------|--|
| Narrative for your achieved annual gender and social inclusion contribution to this CCAFS outcome: Not applicable to this project | |

| 2016 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: 1 | Cumulative target to date: Cannot be Calculated |
| Target narrative: Develop one national/sub-national initiatives for managing agricultural risks through CCAFS research outputs on yield monitoring, ICT services, crop insurance and food stock planning. | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 40% of beneficiaries would be women and youth | |

| 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> | | |

RP SAs - Outcome 2019: Governments, private sector and farmer organizations increase their investments and develop incentive mechanisms to promote wide scale adoption of improved climate-smart practices and technologies

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: Three initiatives | Cumulative target to date: Cannot be Calculated |
| Target narrative: Supplement regional and flagship project in developing three national/sub-national initiatives using decision support tools for promotion and implementation of CSA. | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

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| 2015 | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 1.0 |
| Target narrative: no target | | |
| Narrative for your achieved targets, including evidence: CCAFS with CEGIS has reviewed the impacts and vulnerabilities due to climate change in Bangladesh agriculture, present situation of adaptation strategies and policy contexts in Agriculture due to climate change. Project also identified future adaptation needs and development of policy questions need to be addressed in this agricultural adaptation plan, formulation of possible adaptation strategies to cope up with forthcoming/anticipated consequences of climate change in the context of agriculture at national level and prioritization of adaptation options using CSAP toolkit developed by CCAFS South Asia Regional team. | | |
| 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: Analysis for policy formulation for crop and technology prioritization is done with gender consideration. | | |

| 2016 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: 2 | Cumulative target to date: Cannot be Calculated |
| Target narrative: Supplement regional and flagship project in developing at least two national/sub-national initiatives using decision support tools for promotion and implementation of CSA. | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 40% of beneficiaries would be women and youth | |

| 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> | | |

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

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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: Two initiatives | Cumulative target to date: Cannot be Calculated |
| Target narrative: Supplement regional and flagship projects in developing at least two national/sub-national level governments initiatives using national/state adaptation plans for climate smart | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

| 2015 | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 1.0 |
| Target narrative: No target | | |
| Narrative for your achieved targets, including evidence: Development of decision support tools like CSAP were used in formulation of national adaptation plan (draft document for Bangladesh) for setting technology-crop portfolio considering regional targets and local biophysical resources and climate risks. | | |
| 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 applicable to this project | | |

| 2016 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: 1 | Cumulative target to date: Cannot be Calculated |
| Target narrative: Supplement regional and flagship projects in developing at least one national/sub-national level governments initiatives using national/state adaptation plans for climate smart | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: At least 40% of beneficiaries would be women and youth | |

| 2014 | | |
|----------------------------------------|-------------------------------------|---------------------------------------|
| Target value: <Not defined> | Cumulative target to date: 0 | Target achieved: <Not defined> |
| Target narrative: <Not defined> | | |

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| 2014 |
|-------------------------------------------------------------------------------------------------------------------------|
| 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

| Outcome case study #1 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Title: Scientifically-designed index insurance protects a million Maharashtra farmers from increasing extreme rainfall events</p> |
| <p>Outcome statement: CCAFS analysed that current schemes do not pay sufficiently because of poor triggers. Using several scientific techniques to examine crop-weather relationships CCAFS developed new region and crop specific rainfall triggers which enhance farmers' satisfaction several times. Maharashtra state of India with a large population of resource poor rainfed farmers has adopted these new products and several insurance companies notably AIC of India have applied them in 2015 to provide rainfall risk cover to crops of almost one million farmers.</p> |
| <p>Research Outputs: Report, discussion paper (attached) Journal article (in pipeline) Other: blog</p> |
| <p>Research Partners: Agricultural Insurance Company of India; Department of Agriculture, Government of Maharashtra and Kolli N Rao, IRICS/Aon Benfield</p> |
| <p>Activities that contributed to the outcome: Our pioneering research on designing crop weather triggers using multiple crop and statistical models and optimisation to improve satisfaction of stakeholders especially farmers Continuous engagement with industry and the government in development of the methodology and its evaluation Timely delivery of results.</p> |
| <p>Non-research Partners: Implementing partners are Agricultural Insurance Company of India, other private insurance companies, and Department of Agriculture, Government of Maharashtra.</p> |
| <p>Output Users: Department of Agriculture, Government of Maharashtra; Agricultural Insurance Company of India and other insurance industries</p> |
| <p>How the output was used: Crop insurance against weather derivatives</p> |
| <p>Evidence of the outcome: CCAFS designed rainfall triggers for rice, pearl millet, soybean and cotton in Maharashtra state, India. The Government of Maharashtra has used improved insurance products in the rainy season of 2015 and will protect more than a million farmers from the vagaries of the weather in one season alone (evidence attached).</p> |
| <p>References: i. Better designed weather-based insurance holds promise for Maharashtra farmers: https://ccafs.cgiar.org/research_highlight/better-designed-weather-based-insurance-holds-promise-maharashtra-farmers#.VbcR9_mqpBc ii. CCAFS Report on WBCIS (attached) iii. Evidence from Government of Maharashtra (attached)</p> |
| <p>The primary 2019 outcome indicator that this case study is contributing to: 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</p> |
| <p>Explanation of the link between your outcome story and the CCAFS indicators:</p> |
| <p>Year: 2015</p> |
| <p>Annexes uploaded: CCAFS-Report-WBCIS.PDF</p> |

| Outcome case study #2 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Real-time crop yield monitoring in Nepal for food security planning and climatic risk management |
| Outcome statement: CCAFS in partnership with World Food Programme (WFP), and the Ministry of Agricultural Development (MoAD) of Nepal successfully demonstrated the use of CCAFS tools and approach for real-time estimates of food production much before official estimates based on field measurements are made available. The outputs of this approach for last two consecutive seasons form the basis of Nepal's Food Security Monitoring System (NeKSAP). |
| Research Outputs: Reports Journal article (in pipeline) Other: blog |
| Research Partners: World Food Programme (WFP), Nepal; FP2 (CRAFT tool) and FP4 (DSSAT models) |
| Activities that contributed to the outcome: Development of databases of soils, weather, and management practices of rice and wheat Hind-cast evaluation of rice and wheat production for last 20 years. Involvement of stakeholders- World Food program and Nepal's Ministry of Agriculture in the process |
| Non-research Partners: Ministry of Agricultural Development (MoAD), Nepal |
| Output Users: Nepal Food Security Monitoring System (NeKSAP) |
| How the output was used: Outputs were used in Nepal Food Security bulletins which are key to food stock planning and management. |
| Evidence of the outcome: Food Security Bulletins of the Government of Nepal's Food Security Monitoring System (NeKSAP) (evidence attached). |
| References: Nepal Food Security Bulletins http://neksap.org.np/food-security-bulletins Stakeholders learn new features of yield forecasting toolkit https://ccafs.cgiar.org/blog/stakeholders-learn-new-features-yield-forecasting-toolkit#.VtgMMjZunVh |
| The primary 2019 outcome indicator that this case study is contributing to: 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: CropOutlookNepal.pdf |

5. Project outputs

5.1 Overview by MOGs

| Major Output groups - 2019 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>FP2 - MOG # 4: Decision support systems improved or developed for incorporation into national food security safety net programs</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>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)</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>FP2 - MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>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</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |

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FP2 - MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries

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 # 4: Decision support systems improved or developed for incorporation into national food security safety net programs

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>

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>

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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>

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>

FP2 - MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries

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

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FP2 - MOG # 4: Decision support systems improved or developed for incorporation into national food security safety net programs

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:

Our research reports on in-season crop yield forecast got good recognition by Nepal Food Security Monitoring System (NeKSAP). Department of Agriculture has use this product for produce seasonal crop outlooks.

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:

Not applicable to this project.

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:

CSA prioritization was done for Bihar state in India and Bangladesh using CSAP toolkit, multi-objective trade-off analysis among food production, emission and income is also done for the purpose of adaptation planning. Large datasets were collected and analyzed to develop adaptation plans in agriculture.

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:

Prioritization considers gender component.

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:

CCAFS improved the weather thresholds for WBCIS in India, these weather thresholds protect farmers from adversaries of weather in better way. These thresholds reduce the basis risk in WBCIS schemes.

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:

Not applicable to this project.

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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:

Engagement and communication meetings with all the stakeholders have been done. multi-objective trade-off analyses, socio-economic scenario analysis is done for formulating NAPs/SAP.

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:

Gender issues are included in analysis.

FP2 - MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries

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:

Capacity of partner (WFP) is raised for handling near real time climate data through various sources and its use in crop yield forecasting.

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:

Not applicable to this project.

Major Output groups - 2016

FP2 - MOG # 4: Decision support systems improved or developed for incorporation into national food security safety net programs

Brief bullet points of your expected annual 2016 contribution towards the selected MOG

NA

Brief plan of the gender and social inclusion dimension of the expected annual output

At least 40% of beneficiaries would be women and youth

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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

Tools will support for adaptation planning based on biophysical, socio-economical and tradeoff analyses.

Brief plan of the gender and social inclusion dimension of the expected annual output

Gender and youth friendly CSA adaptation strategies will be developed

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

Improved insurance triggers will be developed

Brief plan of the gender and social inclusion dimension of the expected annual output

Not applicable

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

Adaption plans at national or sub-national level will be developed

Brief plan of the gender and social inclusion dimension of the expected annual output

Inclusion of gender and youth issues in the adaption plans

FP2 - MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries

Brief bullet points of your expected annual 2016 contribution towards the selected MOG

New ICT tools will be tested

Brief plan of the gender and social inclusion dimension of the expected annual output

Gender friendly ICT based tools for dissemination of CSA technologies and services

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: Regular engagement and communication with key stallholders is very important to move from science to actual implementation. For instance, insurance products were developed in collaboration with insurance company and department of agriculture, that products were accepted by the farmers in large areas.

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5.2 Deliverables

Deliverable #1

| Main Information | |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Title: Country reports on crop yield monitoring systems | |
| MOG # 4: Decision support systems improved or developed for incorporation into national food security safety net programs | |
| Main Type: Reports, Reference Materials and Other Papers | Sub Type: Case Study |
| Year of expected completion: 2015 | |
| Status: Complete | |

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, private sector, farmers |
| Knowledge, attitude, skills and practice changes expected in next-user: Use of CCAFS products, tools and approaches for food security planning at national and sub-national scale |
| 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 |

| Partners contributing to this deliverable |
|-----------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Kanel, Damoder <damodar.kanel@wfp.org>, WFP - World Food Programme |

| Deliverable Ranking | |
|---------------------------------------------------------------------|---|
| Address gender and social inclusion aspect | 1 |
| Potential for/ actual contribution to outcomes | 5 |
| Level of shared ownership (partnerships across org.) | 3 |
| 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://neksap.org.np/food-security-bulletins |

Submitted on 2016-03-03 at 16:56 UTC

| Deliverable Metadata |
|--------------------------------------------------------------------------------------------|
| Description: Deliverables are available as crop outlook report for paddy and wheat. |
| Creator / Authors: World Food Programme |
| Author Identifier: <Not defined> |
| Publication / Creation date: <Not defined> |
| Language: <Not defined> |
| Coverage: Nepal |

| Deliverable Data sharing |
|-------------------------------------------|
| Deliverable files <Not defined> |

Deliverable #2

| Main Information |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: National/state adaptation plans for agriculture for one-two states of India, Nepal and Bangladesh |
| 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: Case Study |
| Year of expected completion: 2016 |
| Status: On-going Justification for cancelling the deliverable: CCAFS with CEGIS has reviewed the impacts and vulnerabilities due to climate change in Bangladesh agriculture, present situation of adaptation strategies and policy contexts in Agriculture due to climate change. Project also identified future adaptation needs and development of policy questions need to be addressed in this agricultural adaptation plan, formulation of possible adaptation strategies to cope up with forthcoming/anticipated consequences of climate change in the context of agriculture at national level and prioritization of adaptation options using CSAP toolkit developed by CCAFS South Asia Regional team. Preparation NAP for Bangladesh (agriculture sector) is in process. |

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| Next-user |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, private sector, farmers |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge enhancement and its application |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing, engagement |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Shirsath, Paresh B <p.bhaskar@cgiar.org>, IWMI - International Water Management 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: -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 2016-03-03 at 16:56 UTC

Deliverable #3

| Main Information | |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Title: Improved weather indices for key crops disaggregated by region | |
| 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: 2015 | |
| Status: Complete | |

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, Insurance companies |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge and skills |
| 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 |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Rao Gattineni, Srinivasa <rao.gs@eemausam.com>, eeMausam Weather Risk Management Services Private LTD |
| Partner #2: Plappallil, Joseph J. <pjjoseph@aicoindia.com>, AIC - Agriculture Insurance Company of India Limited |
| Partner #3: Rao, Srinivasa <director@crida.in>, ICAR - Indian Council of Agricultural Research |

| 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: Yes |
| License adopted: <Not defined> |

Submitted on 2016-03-03 at 16:56 UTC

| |
|---------------------------------------------------------------|
| Dissemination Channel: other |
| Dissemination URL: <Not defined> |

| Deliverable Metadata |
|--------------------------------------------------------------------------------------------|
| Description: Research report on improved WBCIS crop-stage, region specific triggers |
| Creator / Authors: Pramod Aggarwal, Paresh Shirsath |
| Author Identifier: <Not defined> |
| Publication / Creation date: June-2015 |
| Language: <Not defined> |
| Coverage: India |

| Deliverable Data sharing |
|----------------------------------------|
| CCAFS-Report-WBCIS.PDF |

Deliverable #4

| Main Information |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: ICT tool for disseminating climate services and agro-advisories |
| MOG # 1: New climate information and analysis that enhances the capacity of data providers (e.g. regional and national meteorological institutions) to meet the demands of climate service beneficiaries |
| Main Type: Tools and Computer Software |
| Sub Type: Tools |
| Year of expected completion: 2016 |
| Status: On-going |
| Justification for cancelling the deliverable: This actively will be started in 2016 |

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels and private industries |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge and skills |
| 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 |

| Partners contributing to this deliverable |
|------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>, RPL SAs - RPL South Asia |

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| Deliverable Ranking | |
|---------------------------------------------------------------------|---|
| Address gender and social inclusion aspect | 2 |
| Potential for/ actual contribution to outcomes | 3 |
| Level of shared ownership (partnerships across org.) | 3 |
| What is your personal perspective of the importance of this product | 4 |

| 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> |

5.3 Summary on next-users

| Next user #1 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: Key next user is Department of Agriculture, State Governments. Department of Agriculture is responsible for overall implementation of insurance projects in the state, it makes them game changer. The representatives of Department of Agriculture holds massive field knowledge and has attitude to make changes for betterment of farming community.</p> |
| <p>Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: Most important strategy is to deliver high quality transparent science product at given time line for their perusal. If required knowledge sharing in terms of presentation, reports, data and codes etc. is also important.</p> |
| <p>Reported deliverables serve as evidence towards this achieved change: CCAFS designed rainfall triggers for key crops (rice, pearl millet, soybean and cotton) in Maharashtra state, India. The Government of Maharashtra has confirmed that the improved insurance products will be implemented in the kharif (rainy) season of 2015 and will protect more than a million farmers from the vagaries of the weather in one season alone.</p> |
| <p>Lessons and implications for the next planning cycle: Revisiting the outputs/products periodically in view of changing policies and better data availability.</p> |
| Next user #2 |
| <p>Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: Key next user is Nepal Food Security Monitoring System (NeKSAP) and Ministry of Agriculture and Development (MoAD), Nepal. Ministry of Agriculture and Development is responsible for ensuring food security of Nepal through policy and planning, it makes them game changer.</p> |
| <p>Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: Most important strategy is to deliver high quality transparent science product and knowledge sharing through presentation, reports etc.</p> |
| <p>Reported deliverables serve as evidence towards this achieved change: The outputs of in-season crop yield forecasting for two consecutive seasons got good recognition by Nepal Food Security Monitoring System (NeKSAP). NeKSAP is jointly operated by the Ministry of Agricultural Development and WFP under the strategic guidance of the National Planning Commission.</p> |
| <p>Lessons and implications for the next planning cycle: Improving the methodology and incorporation of satellite data for real time crop outlook.</p> |

5.4 Project highlights

| Project highlight Information #1 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Title: Improved weather triggers for Peanut in Andhra Pradesh | |
| Author: Pramod Aggarwal, Paresh B Shirsath | Subject: Weather Based Crop Insurance Scheme |
| Publisher: CCAFS | Year: 2015 |
| Project highlights types Breakthrough science | Start date: 2016-03-03 |
| End date: 2016-03-03 | Is global: No |
| Country: India | Keywords: Crop Insurance, climate risk, farmer satisfaction, WBCIS |
| <p>Highlight description: Uncertainty associated with the agricultural production makes it a risky occupation. Agriculture or crop insurance can provide required indemnity in the event of crop loss or failure. It helps the farmers stabilize their incomes by acting as capital which can be invested/used for the successive season. Crop insurance distributes the losses incurred by the farmer over time and space. WBCIS offers a transparent mechanism as claim payments are not based on individual actions of the market participants but on objectively measured and manipulation-free readings given by the weather station. This in turn has greatly reduced transaction costs and has eliminated the problem of moral hazard and adverse selection. However, the high basis risk remains major bottleneck in WBCIS. The term sheets when evaluated against the yield loss stands poor highlighting either inappropriate trigger values or inappropriate set of weather index variables. Minimization of the basis risk requires clear understanding of weather triggers and crop loss.</p> | |
| <p>Introduction / Objectives: We developed improved weather triggers for Peanut in Andhra Pradesh using combination of different approaches viz., statistical, crop simulation and optimization. The objective of developing this methodology was to improve satisfaction of all stakeholders in agricultural insurance by minimizing the basis risks.</p> | |
| <p>Results: Improved triggers were developed for four major peanut growing districts in Andhra Pradesh. In all districts improved triggers showed significantly high correlation with yield loss indicating reduced basis risk. Correlation of yield loss with pay-outs is 0.63 for improved triggers against correlation of 0.10 for existing triggers. New methodology also evaluates all the relevant statistics related to contract performance like claims ratio, loss cost, satisfaction index, claim frequency etc.</p> | |
| <p>Partners: Department of Agriculture, Government of Andhra Pradesh Kolli N Rao, Aon Benfield/IRICS</p> | |
| Links / Sources for further information: <Not defined> | |

Submitted on 2016-03-03 at 16:56 UTC

| Project highlight Information #1 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Title: Formulation of Adaptation Strategies for Bangladesh Agricultural Adaptation Plan | |
| Author: CEGIS | Subject: Climate Change Adaptation |
| Publisher: CEGIS | Year: 2015 |
| Project highlights types Policy engagement Capacity enhancement Food security | Start date: 2014-07-21 |
| End date: 2015-11-30 | Is global: No |
| Country: Bangladesh | Keywords: Adaptation, Climate Chnage, Prioritization, NAP |
| <p>Highlight description: Agricultural production of Bangladesh is influenced by seasonal characteristics and different variables of climate such as temperature, rainfall, humidity, day-length etc. It is also affected by disaster like floods, droughts, soil and water salinity, cyclone and storm surges. Recent studies on climate change indicate that climate is changing and becoming more unforeseeable in the upcoming days in Bangladesh. The COP elaborated at its seventeenth session in Durban to initiate the process of formulating National Adaptation Plan (NAP) as a way to facilitate effective planning in least developed countries (LDCs). The NAP is expected to enable the Parties to formulate, identify and implement the type of adaptation needs; and accordingly develop strategies and programmes to address those needs. It is to be a continuous, progressive and iterative process which follows a country-driven, gender-sensitive, participatory as well as fully transparent approach, taking into consideration vulnerable groups, communities and ecosystems. Therefore, an action plan is mandatory to initialize the adaptation process. The action plan will state what changes is necessary in present crop production process and the future actions must be undertaken to optimize the production.</p> | |
| <p>Introduction / Objectives: The objective of this study was to prepare a coherent and implementable adaptation plan for agriculture in the context of climate change. This is being done through review of the impacts and vulnerabilities due to climate change in agriculture, review of present situation of adaptation strategies and policy contexts, identification of future adaptation needs and development of policy questions need to be addressed in this agricultural adaptation plan, formulation of possible adaptation strategies to cope up with forthcoming/anticipated consequences of climate change in the context of agriculture at national level and prioritization of adaptation options using CSAP toolkit.</p> | |
| <p>Results: In the prioritization process, rice crop in all three seasons and major non rice crop viz, Wheat, Maize, Potato, Pulses (Lentil and Khesari) and Mustard have been considered. These six crops cover about 42% of total non- rice crop areas of Bangladesh. About ten packages of technological interventions featuring 17 technological characteristics have been tested in CSAP. Results from CSAP toolkit have been analysed to prioritize technology options for three time slices Base (2008-09), Near Century (2010-2039) under and Mid Century (2040-2069). Comparison of food grain production for different crops and food demand has been performed for above mentioned time slices and three types of demand scenarios. In prioritization process, Production of crop, Gross Return, Cost of Production, Net Return and Net GWP (Global Warming Potential) Emission for different technologies have also been considered. In other words, prioritization of technologies has been done based on achieving food security status, economic benefit from production and capacity to combat climate change.</p> | |
| Partners: CEGIS, Bangladesh | |
| Links / Sources for further information: <Not defined> | |

6. Activities

| Activity #1 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Spatial monitoring of crop yields in real-time for effective food security planning | |
| Description: For 2015, the major activities are to support national partners in: 1) data collection (biophysical and hydro-meteorological); 2) preparation of dataset for the CRAFT toolkit; 3) run the CRAFT tool and test the model for the selected crops; 4) validate and calibrate the crop forecasting model based on historical crop production data; and 5) Generate spatial yield forecasting database by crop for selected regions. 6) evaluate alternate modelling frameworks for crop yield monitoring. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Shirsath, Paresh B <p.bhaskar@cgiar.org>, IWMI - International Water Management Institute | |
| Status: On-going | Justification: CCAFS is working on in-season crop outlook and early warning system for Nepal with WFP, Nepal. The outputs of in-season crop yield forecasting for two consecutive seasons got good recognition by Nepal Food Security Monitoring System (NeKSAP). |

| Activity #2 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Development of Action Plans for Adaptation in Agriculture under Climate Change at National/Sub- National Levels | |
| Description: This activity being implemented in collaboration with FL1 and FL4 and national partners will focus on 1) finalisation of the toolkit being developed, 2) formulation of adaptation strategies and programmes at national and sub-national level through adaptation prioritization tools and expert judgment; 3) Preparation of implementation strategies for agriculture through enhancing capacity for planning or implementing adaptation | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Shirsath, Paresh B <p.bhaskar@cgiar.org>, IWMI - International Water Management Institute | |
| Status: On-going | Justification: CCAFS has reviewed the impacts and vulnerabilities due to climate change in agriculture, present situation of adaptation strategies and policy contexts in Agriculture due to climate change. Project also identified future adaptation needs and development of policy questions need to be addressed in this agricultural adaptation plan, formulation of possible adaptation strategies to cope up with forthcoming/anticipated consequences of climate change in the context of agriculture at national level and prioritization of adaptation options using CSAP toolkit developed by CCAFS South Asia Regional team. |

Submitted on 2016-03-03 at 16:56 UTC

| Activity #3 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Title: Developing improved products for agricultural risk management including insurance and ICT services | |
| Description: This activity which has led to early outcomes for CCAFS in past will be strengthened. For 2015, the major activities are: 1) review the existing weather insurance triggers; 2) development of improved triggers through crop modelling and statistical analyses; 3) communicating improved weather thresholds with government agencies and insurance companies. 4) developing and evaluating opportunities for engaging farmers in MRV of insurance schemes and bundling of insurance with other risk management options 5) strengthening/developing ICT based toolkit for targeted delivery of weather forecasts and CSA knowledge to stakeholders. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>, IWMI - International Water Management Institute | |
| Status: Complete | |

| Activity #4 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Title: Regional engagement and capacity strengthening for use of decision support tools by stakeholders | |
| Description: CCAFS South Asia team will strategically engage with various stakeholders by organizing workshops, training and other national and regional meetings. This engagement will increase stakeholders' knowledge on various tools and application in adaptation planning. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>, IWMI - International Water Management Institute | |
| Status: Complete | |

Lessons regarding your project activities and possible implications for the coming planning cycle: In view of changing policies in the region for agricultural insurance, development of improved WBCIS products need reanalysis and greater out-scaling efforts.

Submitted on 2016-03-03 at 16:56 UTC

7. Leverages

<Not defined>

Submitted on 2016-03-08 at 15:42 UTC

Title: Regional engagement, communication, capacity strengthening and CCAFS-SA program management for increasing adaptive capacity to climatic risks in SA

| | | | |
|------------------------------------|-------------------------------------------------------------------|--------------------------------------|----------------------------------------------|
| Start date (dd-MM-yyyy) | 01-01-2015 | End date (dd-MM-yyyy) | 31-12-2016 |
| Management liaison | RP SAs - South Asia Region | Mgmt. liaison contact | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> |
| Lead organization | IWMI - International Water Management Institute - Sri Lanka | Project leader | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> |
| Project type | CCAFS CORE | 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 |
| FP1: Climate-smart practices | |
| FP3: Low Emissions Agricultural Development | |
| FP4: Policies and Institutions for Climate-Resilient Food Systems | |

Bilateral project(s) contributing to this project

This project does not have Bilateral projects

Summary

CCAFS South Asia team will strategically plan, implement, monitor and evaluate regional and flagship projects to achieve CCAFS goals. The team will involve generating science-based information for climate change adaptation and mitigation, developing communication products and disseminate them, and engaging with various stakeholders by organizing workshops, trainings and other national and regional meetings

Submitted on 2016-03-08 at 15:42 UTC

2. Partners

Partner #1 (Leader)

Institution: IWMI - International Water Management Institute

Contacts

| Type | Contact | Responsibilities and contributions |
|----------------|-------------------------------------------------------|------------------------------------|
| Project Leader | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> | Activity 2014-313 *Leader*. |
| Partner | Parthasarathy, Dharini <d.parthasarathy@cgiar.org> | Activity 2014-319 *Leader*. |
| Partner | Khatri Chhetri, Arun <A.Khatri-Chhetri@cgiar.org> | Activity 2014-320 *Leader*. |

Partner #2

Institution: RPL SAs - RPL South Asia

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|----------------------------------------------|----------------------------------------------------------|
| Partner | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> | This project was consolidated into projects P61 and P119 |

Partnerships overall performance over the last reporting period: This project was consolidated into projects P61 and P119

Lessons regarding your partnerships and possible implications for the coming reporting cycle: This project was consolidated into projects P61 and P119

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3. Locations

| Project level | Latitude | Longitude | Name |
|---------------|----------------|----------------|------------|
| Region | Not applicable | Not applicable | South Asia |

4. Outcomes

4.1 Project outcome narrative

Project outcome statement

Achieve CCAFS regional targets within the impact pathway and pave the way to accomplish regional vision of large-scale investment in science-informed climate smart agriculture practices, institutions and policies in the region, leading to long-term food security and poverty alleviation

Annual progress towards outcome (end of 2015): Organize at least 3 workshops under various CCAFS themes and engage with various stakeholders at regional, national and sub-national level

Annual progress towards project outcome in the current reporting cycle (2015): This project was consolidated into projects P61 and P119

Communication and engagement activities have contributed to achieving your Project outcomes: This project was consolidated into projects P61 and P119

Evidence documents of progress towards outcomes: <Not defined>

Annual progress towards outcome (end of 2016): Organize at least 3 workshops under various CCAFS themes and engage with various stakeholders at regional, national and sub-national level

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: This project was consolidated into projects P61 and P119

4.2 Contribution to CCAFS Outcomes

RP SAs - Outcome 2019: Governments and global organizations make rational decisions about mitigation based on local, regional and global evidences about mitigation potential in agriculture

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.

Submitted on 2016-03-08 at 15:42 UTC

| 2019 | |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated |
| Target narrative: To be completed in 2015-16, after suitability assessment is completed | |
| 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> | | |
| Narrative for your achieved targets, including evidence: This project was consolidated into projects P61 and P119 | | |
| 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: This project was consolidated into projects P61 and P119 | | |

| 2016 | |
|----------------------------------------------------------------------------------------------------------|-------------------------------------|
| Target value: <Not defined> | Cumulative target to date: 0 |
| 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> | | |

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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: 4 National, and Sub-National institutions (e.g. public, private, and NGO) are responding to the needs of potential climate service beneficiaries (i.e. farmers, food security decision-makers, etc.) to create and disseminate equitable demand driven climate informed services | Cumulative target to date: Cannot be Calculated |
| Target narrative: 10 millions of farmers, at least 50% women, with more effective climate information services and advisory services, and timely, well-targeted safety net interventions that enhances adaptive capacity | |
| 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> | | |
| Narrative for your achieved targets, including evidence: This project was consolidated into projects P61 and P119 | | |
| 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: This project was consolidated into projects P61 and P119 | | |

| 2016 | |
|------------------------------------|-------------------------------------|
| Target value: <Not defined> | Cumulative target to date: 0 |

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| 2016 | | |
|----------------------------------------------------------------------------------------------------------|--|--|
| 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> | | |

RP SAs - Outcome 2019: Governments, private sector and farmer organizations increase their investments and develop incentive mechanisms to promote wide scale adoption of improved climate-smart practices and technologies

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: Three initiatives | Cumulative target to date: Cannot be Calculated |
| Target narrative: Facilitate regional and flagship projects to develop at least three national or subnational level major CSA initiatives informed by CCAFS Science on CSA technologies, practices and scaling that have targets of at least 50,000 to 10 million beneficiaries | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

| 2015 | | |
|------------------------------------|--------------------------------------------------------|-----------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 0.0 |
| Target narrative: No target | | |

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| 2015 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Narrative for your achieved targets, including evidence: This project was consolidated into projects P61 and P119 | |
| 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: This project was consolidated into projects P61 and P119 | |

| 2016 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Target value: Two initiatives | Cumulative target to date: Cannot be Calculated |
| Target narrative: Facilitate regional and flagship projects to develop at least two national or subnational level major CSA initiatives informed by CCAFS Science on CSA technologies, practices and scaling that have targets of at least 50,000 to 10 million beneficiaries | |
| 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> | | |

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: Three initiatives | Cumulative target to date: Cannot be Calculated |

Submitted on 2016-03-08 at 15:42 UTC

| 2019 | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Target narrative: Facilitate regional and flagship projects at three national or sub national jurisdictions in which equitable institutional investments in climate smart food systems have increased by 50% | | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | | |

| 2015 | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------|
| Target value: NA | Cumulative target to date: Cannot be Calculated | Target achieved: 0.0 |
| Target narrative: NA | | |
| Narrative for your achieved targets, including evidence: This project was consolidated into projects P61 and P119 | | |
| 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: This project was consolidated into projects P61 and P119 | | |

| 2016 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Target value: one initiative | Cumulative target to date: Cannot be Calculated |
| Target narrative: Facilitate regional and flagship projects at one national or sub national jurisdictions in which equitable institutional investments in climate smart food systems have increased by 50% | |
| 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> | | |

Submitted on 2016-03-08 at 15:42 UTC

4.3 Other Contributions

Contribution to other CCAFS Impact Pathways: <Not defined>

Collaborating with other CRPs: <Not defined>

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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 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>FP2 - MOG # 4: Decision support systems improved or developed for incorporation into national food security safety net programs</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>FP3 - MOG # 1: Methods and data for quantifying low-emissions agriculture options appropriate to smallholder farmers</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>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</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |
| <p>FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, SEA)</p> <p>Brief bullet points of your expected annual 2019 contribution towards the selected MOG <Not defined></p> <p>Brief plan of the gender and social inclusion dimension of the expected annual output <Not defined></p> |

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FP1 - MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (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>

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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>

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>

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>

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>

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FP2 - MOG # 2: New knowledge, capacity, and tools supporting the provision of equitable climate services for farmers are developed

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>

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

FP2 - MOG # 4: Decision support systems improved or developed for incorporation into national food security safety net programs

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>

FP3 - MOG # 1: Methods and data for quantifying low-emissions agriculture options appropriate to smallholder farmers

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>

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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>

FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, 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>

FP1 - MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (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>

Submitted on 2016-03-08 at 15:42 UTC

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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>

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>

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>

Submitted on 2016-03-08 at 15:42 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 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>

FP2 - MOG # 2: New knowledge, capacity, and tools supporting the provision of equitable climate services for farmers are developed

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>

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

Submitted on 2016-03-08 at 15:42 UTC

FP2 - MOG # 4: Decision support systems improved or developed for incorporation into national food security safety net programs

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

FP3 - MOG # 1: Methods and data for quantifying low-emissions agriculture options appropriate to smallholder farmers

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

Submitted on 2016-03-08 at 15:42 UTC

FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, 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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

FP1 - MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

Submitted on 2016-03-08 at 15:42 UTC

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

Submitted on 2016-03-08 at 15:42 UTC

FP2 - MOG # 2: New knowledge, capacity, and tools supporting the provision of equitable climate services for farmers are developed

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

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:

This project was consolidated into projects P61 and P119

Major Output groups - 2016

FP2 - MOG # 4: Decision support systems improved or developed for incorporation into national food security safety net programs

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>

FP3 - MOG # 1: Methods and data for quantifying low-emissions agriculture options appropriate to smallholder farmers

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>

Submitted on 2016-03-08 at 15:42 UTC

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

<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output

<Not defined>

FP1 - MOG # 3: Approaches, strategies and scaling up/out mechanisms (e.g CSV), for enhanced adaptive capacity and resilience from the field to the sub-national level (LAM, WA, SA, EA, 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>

FP1 - MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (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>

FP1 - MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (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>

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>

Submitted on 2016-03-08 at 15:42 UTC

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

<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 2016 contribution towards the selected MOG

<Not defined>

Brief plan of the gender and social inclusion dimension of the expected annual output

<Not defined>

FP2 - MOG # 2: New knowledge, capacity, and tools supporting the provision of equitable climate services for farmers are developed

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>

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: This project was consolidated into projects P61 and P119

Submitted on 2016-03-08 at 15:42 UTC

5.2 Deliverables

Deliverable #1

| Main Information | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Title: Regional report synthesising outcomes related to major outcomes form SA program | |
| MOG # 4: Innovative knowledge management systems (ICT, information network, multi-stakeholder platforms, learning alliances, fora etc) and strategic engagements approaches and partnerships that promote access, co-creation, capacity building, learning, 2 ways sharing and dissemination of CSA information and tools to farmers, extension services, agro-dealer networks, local governments, private sector, academia etc. (LAM, WA, EA, SA, SEA) | |
| Main Type: Reports, Reference Materials and Other Papers | Sub Type: Research report |
| Year of expected completion: 2015 | |
| Status: Cancelled | Justification for cancelling the deliverable: This project was consolidated into projects P61 and P119 |

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, researchers, private sector, farmers |
| Knowledge, attitude, skills and practice changes expected in next-user: Knowledge, attitude, skills and practice changes |
| 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 |

| Partners contributing to this deliverable |
|------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>, RPL SAs - RPL South Asia |

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

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

Submitted on 2016-03-08 at 15:42 UTC

| |
|---------------------------------------------------------------|
| 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: Communication products |
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) |
| Main Type: Reports, Reference Materials and Other Papers |
| Sub Type: Research report |
| Year of expected completion: 2015 |
| Status: Cancelled |
| Justification for cancelling the deliverable: This project was consolidated into projects P61 and P119 |

| Next-user |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments at different levels, private sector, farmers, NARS researchers |
| Knowledge, attitude, skills and practice changes expected in next-user: Change expected in knowledge and skills |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing |

Submitted on 2016-03-08 at 15:42 UTC

| Partners contributing to this deliverable |
|------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>, RPL SAs - RPL South Asia |

| 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: Capaicty stregthened of atleast 100 government planners and of additional 100 NARS researchers in CSA |

Submitted on 2016-03-08 at 15:42 UTC

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| MOG # 1: Context specific (targeted) suitable CSA options and portfolios that build on traditional knowledge, meet the needs of farmers and enhance productivity, adaptive capacity, food security and social equity (LAM, WA, EA, SA, SEA) | |
| Main Type: Data and information outputs, including datasets, databases and models | Sub Type: Data |
| Year of expected completion: 2015 | |
| Status: Cancelled | Justification for cancelling the deliverable: This project was consolidated into projects P61 and P119 |

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NARS researchers, policy planners |
| Knowledge, attitude, skills and practice changes expected in next-user: Improved knowledge and skills |
| 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 |

| Partners contributing to this deliverable |
|------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>, RPL SAs - RPL South Asia |

| 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> |

Submitted on 2016-03-08 at 15:42 UTC

Publication / Creation date: <Not defined>

Language: <Not defined>

Coverage: <Not defined>

Deliverable Data sharing

Deliverable files

<Not defined>

Submitted on 2016-03-08 at 15:42 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: This project was consolidated into projects P61 and P119 |
| Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: This project was consolidated into projects P61 and P119 |
| Reported deliverables serve as evidence towards this achieved change: This project was consolidated into projects P61 and P119 |
| Lessons and implications for the next planning cycle: This project was consolidated into projects P61 and P119 |

Submitted on 2016-03-08 at 15:42 UTC

5.4 Project highlights

Submitted on 2016-03-08 at 15:42 UTC

6. Activities

| Activity #1 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Title: Strategic planning, engagement and technical support for regional programs | |
| Description: This activity includes designating regional projects, support and provide directions to national and sub-national partners, and engage with national, regional and global stakeholders to implement and scale up/out climate-smart agriculture in South Asia. Represent CCAFS-SA in national, regional and international meetings and coordinate with other flagships and CG centres and support for managing and overseeing overall portfolio of CCAFS research activities in SA. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Aggarwal, Pramod <P.K.Aggarwal@cgiar.org>, IWMI - International Water Management Institute | |
| Status: Cancelled | Justification: This project was consolidated into projects P61 and P119 |

| Activity #2 | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Title: Communicating CSA practices and policies to stakeholders | |
| Description: The communication and engagement activities will ensure that outputs of CCAFS projects in South Asia have maximum impact and reach as many stakeholders and key next users as possible. This activity will ensure that the skills and networks of different researchers in the projects are mainstreamed into the overall regional strategy. Various communication products such as working papers, info notes, blogs, journal articles, newsletters etc. will be produced and distributed across the region and globe. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Parthasarathy, Dharini <d.parthasarathy@cgiar.org>, IWMI - International Water Management Institute | |
| Status: Cancelled | Justification: This project was consolidated into projects P61 and P119 |

| Activity #3 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Title: Capacity building through organizing workshops and trainings | |
| Description: CCAFS has developed various decision support tools and training materials for policy decision and climate-risk management in agriculture. Various trainings and workshops will be organized to reach these tools and information to end users in the region. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Khatri Chhetri, Arun <A.Khatri-Chhetri@cgiar.org>, IWMI - International Water Management Institute | |
| Status: Cancelled | Justification: This project was consolidated into projects P61 and P119 |

Submitted on 2016-03-08 at 15:42 UTC

Lessons regarding your project activities and possible implications for the coming planning cycle: This project was consolidated into projects P61 and P119

Submitted on 2016-03-08 at 15:42 UTC

7. Leverages

<Not defined>

Submitted on 2016-03-01 at 17:49 UTC

CCAFS COFUNDED W1_W2_W3

Title: Enhancing benefits of Remote Sensing Data and Flood Hazard Modeling in Index-based Flood Insurance (IBFI) in South Asia

| | | | |
|------------------------------------|-------------------------------------------------------------------|--------------------------------------|----------------------------------------------|
| Start date (dd-MM-yyyy) | 01-01-2015 | End date (dd-MM-yyyy) | 31-12-2018 |
| Management liaison | RP SAs - South Asia Region | Mgmt. liaison contact | Aggarwal, Pramod <P.K.Aggarwal@cgiar.org> |
| Lead organization | IWMI - International Water Management Institute - Sri Lanka | Project leader | Amarnath, Giriraj <a.giriraj@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 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 240 - Improved Solutions for Management of Floods and Droughts in South Asia |
| 241 - Drought Monitoring in South Asia |
| 242 - Innovative Insurance Solutions for Agricultural Risk and their benefits to Climate Change Adaptation for Resilient Communities in two pilot regions |

Summary

Index-based flood insurance (IBFI) is an innovative approach to developing effective payout schemes for low-income, food-prone communities. This project aims to integrate hi-tech modelling and satellite imagery with other data to predetermine flood thresholds, which could trigger speedy compensation payouts. Effective end-to-end solutions will be developed in collaboration with a range of organizations and experts from central and state government bodies, private insurance firms, community-based organizations (CBOs) and nongovernmental organizations (NGOs).

The project will cover India and Bangladesh, making it the first attempt to develop IBFI at a large scale. More details can be referred here <http://ibfi.iwmi.org/>

Submitted on 2016-03-01 at 17:49 UTC

2. Partners

Partner #1

Institution: IFPRI - International Food Policy Research Institute

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partner | Joshi, PK <p.joshi@cgiar.org> | <p>The partner will focus on (i) assessing stakeholders preferences for index based insurance; (ii) undertake financial feasibility of index based insurance products under different scenario and develop business models; (iii) develop business models acceptable to the governments/insurance industry; and (iv) evolve institutional framework for larger acceptability of the insurance products.</p> <p>Activity 2014-217 *Leader*. Activity 2014-169 *Partner*. Activity 2014-215 *Partner*. Activity 2014-216 *Partner*.</p> |

Partner #2 (Leader)

Institution: IWMI - International Water Management Institute

Contacts

| Type | Contact | Responsibilities and contributions |
|----------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Project Leader | Amarnath, Giriraj <a.giriraj@cgiar.org> | <p>Activity 2014-216 *Leader*. Activity 2014-169 *Leader*. Activity 2014-217 *Partner*.</p> |

Partner #3

Institution: AIC - Agriculture Insurance Company of India Limited

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

Contacts

| Type | Contact | Responsibilities and contributions |
|------|---------|------------------------------------|
|------|---------|------------------------------------|

Submitted on 2016-03-01 at 17:49 UTC

| | | |
|---------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Partner | Plappallil, Joseph J. <pjjoseph@aicofindia.com> | Activity 2014-169 *Partner*. Activity 2014-215 *Partner*. Activity 2014-216 *Partner*. Activity 2014-217 *Partner*. |
|---------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|

Partner #4**Institution:** Swiss Re - Swiss Reinsurance Company Ltd**CCAFS Partner(s) allocating budget:** <Not defined>**Contacts**

| Type | Contact | Responsibilities and contributions |
|---------|-------------------------------------------|----------------------------------------------------------------------------------------------|
| Partner | Raju, Satish <Satish_Raju@swissre.com> | Activity 2014-215 *Partner*. Activity 2014-216 *Partner*. Activity 2014-217 *Partner*. |

Partner #5**Institution:** IWM - Institute of Water Modeling**CCAFS Partner(s) allocating budget:** <Not defined>**Contacts**

| Type | Contact | Responsibilities and contributions |
|---------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Partner | Masud, Md. Sohel <msm@iwmbd.org> | Activity 2014-217 *Partner*. Activity 2014-169 *Partner*. Activity 2014-215 *Partner*. Activity 2014-216 *Partner*. |

Partner #6**Institution:** eeMausam Weather Risk Management Services Private LTD**CCAFS Partner(s) allocating budget**

IWMI - International Water Management Institute - Sri Lanka

Submitted on 2016-03-01 at 17:49 UTC

Contacts

| Type | Contact | Responsibilities and contributions |
|---------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Partner | Rao Gattineni, Srinivasa <rao.gs@eemausam.com> | Project facilitation and implementation in Bihar. The partner will carry out 9 step procedure which includes Activity 1: Opportunity Assessment; Activity 2: Contract Design; Activity 3: Contract Pricing; Activity 4: Development of Contract Administration Tool Kit; Activity 5: Client Education; Activity 6: Farmer Enrolment; Activity 7: Risk Transfer; Activity 8: Contract Monitoring; Activity 9: Claim Processing |

Partnerships overall performance over the last reporting period: The partners receiving funds have performed exceptionally well; all attended and contributed meaningfully to the Inception Workshop, and developed work plans and signed MOUs quickly. The MOU of IIWI (Indian ICAR institute) is still pending for approval. To their credit, IIWI have contributing to the workshop discussion and expecting formal collaboration in 2016. Strong outputs are emerging from each of the partners, and they are contributing to communications and outreach efforts. We've also received great support from non-financial partners including numerous Bihar state government departments in India and national/regional agencies in Bangladesh.

Lessons regarding your partnerships and possible implications for the coming reporting cycle: The main point here is that partnership building is not only about choosing the right set of partners upfront, it is also about forecasting how they will interact and work together towards common goals, and to facilitate this process as much as possible. The relationship with partners was strengthened by engaging them from the beginning right from pre-inception and post that through regular meetings, discussions and field visits, aided by appointing a very productive half-time project coordinator, have greatly improved the strength of our partnerships and their performance. With the funding limitations, the scaling initiatives will be evaluated further.

Submitted on 2016-03-01 at 17:49 UTC

3. Locations

| Project level | Latitude | Longitude | Name |
|---------------|--------------------|--------------------|-------------|
| District | 26.1893 | 26.1893 | Muzaffarpur |
| District | 24.5006 | 24.5006 | Sirajganj |
| District | 26.073367236210448 | 26.073367236210448 | Darbhangha |
| District | 25.796730444495275 | 25.796730444495275 | Samastipur |

4. Outcomes

4.1 Project outcome narrative

Project outcome statement

The meso-level flood index insurance will be designed to protect the low income, vulnerable flood prone communities by improving their ability to cope with flood risks, which would contribute to their socio economic development. The project will help to generate at least 2 initiatives i.e. implemented jointly by insurance industries and National/State Governments in South Asia. Each initiative will lead to benefit at least 50,000 to 1 Million farmers. The innovative flood insurance products for SA will be implemented in close cooperation with various actors (Government, Insurance companies, INGO, CBO, NGO) in a public private partnership (PPP) mode to promote adaptation practice to climate change, and develop policy oriented model in scale up process. National governments in 2 target countries are convinced of the flood insurance benefits and are set to ensure increasing adoption, integrating it into their climate change adaptation strategies.

Annual progress towards outcome (end of 2015): Modeling and selection of parameters and designing of index-based flood insurance product for testing/ validation in selected states/districts will be completed.

Annual progress towards project outcome in the current reporting cycle (2015): Within this first year we have taken concrete steps to highlight how the IBFI can benefit to local communities, local officials as well as intermediate and high level Ministries in Disasters and Agriculture agencies. The progress to the activities are promising to convince government agencies in India and Bangladesh to implement flood insurance product under disaster risk financing solutions government programme (e.g. climate safety net funds) to a feasible scale and to seek them to pledge support to scale it further in future years if the initial results are supportive. The Government of Bihar (Bihar State Disaster Management Agency), Government of Bangladesh (Ministry of Disaster Management) is participating in the research and committing in-kind resources to support the implementing IBFI scheme subsidizing by paying premium on behalf of the farmers. We are already in discussion with Swiss Development Corporation in Bangladesh to support the project to formulate a case that will mobilize additional sources to scale the activities in Bangladesh.

A government official at the highest level in the district where the first pilot will be implementing in 2016 is supporting the project to formulate a case that will mobilize resources and ensure adequate government and community support to establish the next level scaling up in the district. We have received excellent support from key agencies within the Ministry / State of Disaster Management who are awaiting stronger evidence to consider policy implications. Approximately 30 villages in three districts in India covering 1500 household were interviewed for their willingness to participate in the programme. The consensus and support received at different levels from government through to extension agencies and to the community helps the project in gaining increasing acceptance and in scaling up.

Communication and engagement activities have contributed to achieving your Project outcomes: C&E is central to developing and strengthening relationships with key actors. Our approach has been multipronged as per our ToC with strategies to educate, engage and exemplify concepts. In order to educate our stakeholders communication material such as brochure, videos, project website in English have been developed. Engagement is an important focus of our project, with meetings, workshops, organizing community meeting with local officials, field trips organized to involve stakeholders ranging from the Research community, government officials, local community, insurance industry, media and partners. Presentations have also been made at local and international forums.

Evidence documents of progress towards outcomes: <Not defined>

Annual progress towards outcome (end of 2016): Testing and evaluation of IBFI in a selecting districts in collaboration with governments, private insurance companies and other key stakeholders will be initiated.

Annual progress towards outcome (end of 2017): Institutional framework and financial mechanism for scaling up/out of IBFI developed. The project focuses on rising awareness among insurance regulators and concerned Ministries to promote scaling out in the States.

Annual progress towards outcome (end of 2018): 2 initiatives in India and Bangladesh implemented jointly by insurance industries and National/State Governments.

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: added 2015 outcomes

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: 2 | Cumulative target to date: 3 |
| Target narrative: 2 national/sub-national initiatives that incorporate flood insurance products developed by the project | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: <Not defined> | |

Submitted on 2016-03-01 at 17:49 UTC

| 2015 | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Target value: 0 | Cumulative target to date: 0 | Target achieved: 0.0 |
| Target narrative: Project will focus on developing flood insurance projects in three countries | | |
| Narrative for your achieved targets, including evidence: The first ever IBFI pilot is being implemented in India and Bangladesh to promote invest before disaster occur to safeguard poor against extreme flood events. There has great support from local households/farmers willingness to pay premium and government to subsidized the premium cost are the major achievements of this year. Further partnership among re(insurer) and microcredits are met for successful scaling of IBFI product. More importantly, through focussed engagement key decisions makers are now taking notice of IBFI and awaiting further evidence to implement policy changes. Some area already working with the team to implement the next level of scalingup. | | |
| 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 are starting to understand the status of women, landless and low-income groups in areas we work thus providing entry points for their inclusion into IBFI process. These groups were included in the discussion when community agreement for the IBFI implementation was granted. We are exploring the potential to link up with national programmes such as NDRP in India, BCCRF in Bangladesh which are specifically designed to safeguard the poor with strong emphasis on women and youth. Similar welfare schemes in other countries can be targeted as well. | | |

| 2016 | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|
| Target value: 1 | Cumulative target to date: 1 | |
| Target narrative: 1 national/sub-national initiatives that incorporate flood insurance products in collaboration with insurance industry and governments | | |
| The expected annual gender and social inclusion contribution to this CCAFS Outcome: The baseline socio-economic data collection in pilot villages for both the countries (quantitative & qualitative) will help us in understanding the local perception on flood risk and gender dimension. The broad range of analysis including livelihoods analysis, social and gender differentiated analysis, gender & equity analysis. Assessment of how IBFI interventions may benefit/affect gender as well as other socially disaggregated groups differently in flood risk zones. | | |

| 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> | | |

Submitted on 2016-03-01 at 17:49 UTC

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: <Not defined>

Collaborating with other CRPs: <Not defined>

Submitted on 2016-03-01 at 17:49 UTC

4.4 Outcome case studies

There is not an Outcome Case Study added.

Submitted on 2016-03-01 at 17:49 UTC

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:

IBFI approach for enhanced agriculture resilience and flood proofing livelihoods which will be implemented in India and Bangladesh and emerging plans in 2016 for intermediate upscaling.

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:

Beginning to understand how IBFI interventions could differentially affect women and socially disaggregated groups with the view of enabling greater inclusion of into IBFI processes

Submitted on 2016-03-01 at 17:49 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

We expect wider contribution in index and insurance design, gender-specific needs, communication and capacity challenges at scale, public-private partnerships, and sustainable business models. We also contribute to evidence of pilot implementation that support the livelihoods of vulnerable households by protecting productive assets and enabling access to credit and improved technologies.

Brief plan of the gender and social inclusion dimension of the expected annual output

In 2016, the study on demand for flood insurance among different categories of farmers and their willingness to pay will be analyzed (WTP). The activities includes baseline socio-economic data collection of pilot sites(quantitative & qualitative) including livelihoods analysis, social and gender differentiated analysis, gender & equity analysis.

Lessons regarding your major outputs groups (MOGs) and possible implications for the coming planning cycle: These 2 aspects – the approach overall and the gender dimensions – will be strengthened in 2016

Submitted on 2016-03-01 at 17:49 UTC

5.2 Deliverables

Deliverable #1

| Main Information | |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Index-based Flood Insurance product in Bangladesh and India | |
| MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners | |
| Main Type: Tools and Computer Software | Sub Type: Tools |
| Year of expected completion: 2015 | |
| Status: On-going | Justification for cancelling the deliverable: For both the countries (India and Bangladesh) flood hazard model is being developed and are in final stage to derive flood parameters in product design and implementation. Activities including river profile along the pilot villages, establishing water level gauges for evaluation during 2016 IBFI implementation as well as finalizing flood insurance app for one stop tool for insurer, policy holder and government monitoring the programme. |

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments, Public and Private Insurance company, Financial institutions |
| Knowledge, attitude, skills and practice changes expected in next-user: The model and report will highlight the current IBFI implementation in SA and brings out the demand for IBFI in the context of climate change, which can make significant contribution to the understanding of choices around insurance, and consequent policy development. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: This will be achieved through consultative workshop/meeting with experts from various discipline to promote IBFI and encourage to be part of this I4 in reducing risks, not only by helping affected households to recover from extremefloods through financial compensation, but also encouraging behavior that reduces their exposure to disaster risks. |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Rao Gattineni, Srinivasa <rao.gs@eemausam.com>, eeMausam Weather Risk Management Services Private LTD |
| Partner #2: Raju, Satish <Satish_Raju@swissre.com>, Swiss Re - Swiss Reinsurance Company Ltd |

| Deliverable Ranking | |
|-------------------------------------------------------|---|
| Address gender and social inclusion aspect | 2 |
| Potential for/ actual contribution to outcomes | 4 |

Submitted on 2016-03-01 at 17:49 UTC

| | |
|---------------------------------------------------------------------|---|
| 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: Limited Exclusivity Agreements |
| License adopted: <Not defined> |
| Dissemination Channel: -1 |
| Dissemination URL: <Not defined> |

| Deliverable Metadata |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description: Development of flood hazard model for pilot sites in India and Bangladesh. Details on flood parameters that will be used in pricing and structuring the product will be included. |
| Creator / Authors: IWMI, IIT-GN, IWM |
| Author Identifier: <Not defined> |
| Publication / Creation date: 2016 |
| Language: English |
| Coverage: India and Bangladesh |

| Deliverable Data sharing |
|-------------------------------------------|
| Deliverable files <Not defined> |

Deliverable #2

| Main Information | |
|-------------------------------------------------------------------------------------------------------------------|-------------------------|
| Title: Report on preferences of insurance products and financial feasibility studies | |
| 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: Working paper |
| Year of expected completion: 2015 | |

Submitted on 2016-03-01 at 17:49 UTC

Status: On-going

Justification for cancelling the deliverable: The geographic focus is defined and baseline studies on biophysical, socio-economic and gender/equity aspects are all advancing with strong coordination amongst all the groups involved. Publications will emerge in the first half of 2016. Communication materials have already been generated.

Next-user

Governments, Public and Private Insurance company, Financial institutions

Knowledge, attitude, skills and practice changes expected in next-user: New knowledge and people's attitude / behaviour need to be changed and promote awareness in rising the demand for IBFI schemes in the context of climate change as an adaptation mechanism among local communities, particular for households living in flood-prone areas.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Questionnaire for household survey will be used to gather past and current knowledge on the impact of catastrophic flooding in their household and results of choice experiment will explain IBFI demand and their choice for insurance payout in minimize the impact of flooding.

Partners contributing to this deliverable

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

Partner #2: Masud, Md. Sohel <msm@iwmbd.org>, IWM - Institute of Water Modeling

Partner #3: Rao Gattineni, Srinivasa <rao.gs@eemausam.com>, eeMausam Weather Risk Management Services Private LTD

Deliverable Ranking

| | |
|---------------------------------------------------------------------|---|
| Address gender and social inclusion aspect | 3 |
| 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: Yes

License adopted: <Not defined>

Dissemination Channel: -1

Dissemination URL: <Not defined>

Submitted on 2016-03-01 at 17:49 UTC

| Deliverable Metadata |
|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Description: IBFI preferences of insurance products among local communities and financial feasibility studies for product sustainability |
| Creator / Authors: Giriraj Amarnath, Tyagi G., Srinivasa Rao G., Joshi P.K. |
| Author Identifier: <Not defined> |
| Publication / Creation date: IWMI |
| Language: English |
| Coverage: South Asia |

| Deliverable Data sharing |
|-----------------------------------------------------------|
| http://iwmi.cgiar.org |
| http://ibfi.iwmi.org |

Deliverable #3

| Main Information |
|--------------------------------------------------------------------------------------------------------------------------|
| Title: Project inception report on the IBFI concept and its implementation |
| 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: 2015 |
| Status: Complete |

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments, Public and Private Insurance company, Financial institutions |
| Knowledge, attitude, skills and practice changes expected in next-user: To better understand KAP and incentives of IBFI to stakeholders and expectations of this innovative programme and to promote better risk management through PPP mode. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Workshop will provide decision makers better current and new knowledge on the IBFI at various scales and provide opportunity to join in this initiative and facilitate in index development on validity and reliability of indices that will attribute for insurance companies, insurance buyers and government alike. |

Submitted on 2016-03-01 at 17:49 UTC

Partners contributing to this deliverable

Partner #1 (Responsible): Masud, Md. Sohel <msm@iwmbd.org>, IWM - Institute of Water Modeling

Deliverable Ranking

| | |
|---------------------------------------------------------------------|---|
| Address gender and social inclusion aspect | 3 |
| Potential for/ actual contribution to outcomes | 3 |
| Level of shared ownership (partnerships across org.) | 4 |
| What is your personal perspective of the importance of this product | 3 |

Deliverable dissemination

Open access restriction: Yes**License adopted:** <Not defined>**Dissemination Channel:** other**Dissemination URL:** <http://ibfi.iwmi.org>

Deliverable Metadata

Description: Brief workshop report on the launch of IBFI project in India and Bangladesh was organized. report provides details on the technical aspect on product design and development and aspects of local communities and governments can engage in the programme for the success.**Creator / Authors:** Giriraj Amarnath and Nitasha Nair**Author Identifier:** <Not defined>**Publication / Creation date:** 2015**Language:** English**Coverage:** India and Bangladesh

Deliverable Data sharing

Deliverable files

<Not defined>

Deliverable #4

Main Information

Title: Tools and model related to flood hazard model for index-based flood insurance

Submitted on 2016-03-01 at 17:49 UTC

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

Main Type: Data and information outputs, including datasets, databases and models

Sub Type: Models

Year of expected completion: 2016

Status: <Not defined>

Next-user

Governments, Public and Private Insurance company, Financial institutions

Knowledge, attitude, skills and practice changes expected in next-user: Knowledge on the historical flood frequency, its impact on livelihood and agriculture will be captured using RS data and models to determine suitable parameters for index development. Attitude and Skills in the region will be enhanced by providing the use of flood models and its potential in flood insurance.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Knowledge sharing through tools and models and development of prototype IBFI scheme with multilateral partnership on the advantages of IBFI compare to the traditional method. PPP model will be promoted so that the various actors will be able to scale up across large communities affected by severe flooding.

Partners contributing to this deliverable

Partner #1 (Responsible): Raju, Satish <Satish_Raju@swissre.com>, Swiss Re - Swiss Reinsurance Company Ltd

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>

Submitted on 2016-03-01 at 17:49 UTC

| |
|---------------------------------------------------|
| 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 on benefit-cost analysis of index based insurance products and product design |
| 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: Working paper |
| Year of expected completion: 2016 |
| Status: <Not defined> |

| Next-user |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments, Public and Private Insurance company, Financial institutions |
| Knowledge, attitude, skills and practice changes expected in next-user: Role of women farmers will be analyzed in accepting the index based insurance products |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: The project will make sure that farmers/households particularly women have ownership of the insurance product through consultation with them throughout the design of the product. They will be an integral part of validating and addressing any subsequent issues to adapt or improve the index or contract. |

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

| Deliverable Ranking |
|---------------------|
|---------------------|

Submitted on 2016-03-01 at 17:49 UTC

| | |
|----------------------------------------------------------------------------|---------------|
| 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: Flood Insurance Index for testing in cooperation with Insurance companies | |
| 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: Case Study |
| Year of expected completion: 2016 | |
| Status: <Not defined> | |

Submitted on 2016-03-01 at 17:49 UTC

| Next-user |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments, Public and Private Insurance company, Financial institutions |
| Knowledge, attitude, skills and practice changes expected in next-user: awareness about IBFI schemes as an adaptation mechanism among local communities, particular for households living in flood-prone areas. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: The project will have close collaboration with national/state-owned and private insurance companies to assist local government with a demonstrable model for developing and establishing a IBFI market in SA countries and also conduct campaign about such schemes in village meetings and in the local public media. |

| Partners contributing to this deliverable |
|----------------------------------------------------------------------------------------------------------------------------------------|
| Partner #1 (Responsible): Rao Gattineni, Srinivasa <rao.gs@eemausam.com>, eeMausam Weather Risk Management Services Private LTD |
| Partner #2: Raju, Satish <Satish_Raju@swissre.com>, Swiss Re - Swiss Reinsurance Company Ltd |
| Partner #3: Masud, Md. Sohel <msm@iwmbd.org>, IWM - Institute of Water Modeling |

| 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> |

Submitted on 2016-03-01 at 17:49 UTC

Coverage: <Not defined>

Deliverable Data sharing

Deliverable files

<Not defined>

Deliverable #7

Main Information

Title: Workshop report on Flood Hazard Model and Choice Experiment Design among policy makers**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:** <Not defined>

Next-user

Governments, Public and Private Insurance company, Financial institutions

Knowledge, attitude, skills and practice changes expected in next-user: To better understand KAP and incentives of IBFI to stakeholders and expectations of this innovative programme and to promote better risk management through PPP mode.**Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes:** Workshop will provide decision makers better current and new knowledge on the IBFI at various scales and provide opportunity to join in this initiative and facilitate in index development on validity and reliability of indices that will attribute for insurance companies, insurance buyers and government alike.

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>

Submitted on 2016-03-01 at 17:49 UTC

| 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: Report on evaluation of insurance products for wider acceptability by insurance industry and governments | |
| 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: 2017 | |
| Status: <Not defined> | |
| Next-user | |
| Governements, Public and Private Insurance company, Financial institutions | |

Submitted on 2016-03-01 at 17:49 UTC

Knowledge, attitude, skills and practice changes expected in next-user: The activity among various stakeholders will be organized for wider acceptability of the insurance products and highlight how the IBFI has potential among local communities in terms of rising awareness, conduct campaign among governments before scaling up to whole districts/state level.

Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement through workshop/consultative discussion on the new knowledge being generated since the inception of IBFI and utilize business model being development to promote ex-ante disaster measures to address disaster risk reduction in the region.

Partners contributing to this deliverable

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

Partner #2: Masud, Md. Sohel <msm@iwmbd.org>, IWM - Institute of Water Modeling

Partner #3: Rao Gattineni, Srinivasa <rao.gs@eemausam.com>, eeMausam Weather Risk Management Services Private LTD

Partner #4: Plappallil, Joseph J. <pjjoseph@aicoindia.com>, AIC - Agriculture Insurance Company of India Limited

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>

Submitted on 2016-03-01 at 17:49 UTC

| |
|--------------------------------|
| Coverage: <Not defined> |
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| Deliverable Data sharing |
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Deliverable #9

| Main Information |
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| Title: Report on index-based flood insurance implementation and sustainability |
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| MOG # 3: Weather related Insurance products are designed, tested, and brought to scale with implementing partners |
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|-----------------------------------------------------------------|
| Main Type: Reports, Reference Materials and Other Papers |
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| Sub Type: Working paper |
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| Year of expected completion: 2018 |
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| Status: <Not defined> |
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| Next-user |
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| Governements, Public and Private Insurance company, Financial institutions |
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| Knowledge, attitude, skills and practice changes expected in next-user: The activity among various stakeholders will be organized for wider acceptability of the insurance products and highlight how the IBFI has potential among local communities in terms of rising awareness, conduct campaign among governments before scaling up to whole districts/state level. |
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| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement through consultative discussion on the new knowledge being generated since the inception of IBFI and utilize business model being development to promote ex-ante disaster measures to address disaster risk reduction in the region. |
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| Partners contributing to this deliverable |
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| Partner #1 (Responsible): Rao Gattineni, Srinivasa <rao.gs@eemausam.com>, eeMausam Weather Risk Management Services Private LTD |
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| Partner #2: Raju, Satish <Satish_Raju@swissre.com>, Swiss Re - Swiss Reinsurance Company Ltd |
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| Partner #3: Plappallil, Joseph J. <pjoseph@aicoindia.com>, AIC - Agriculture Insurance Company of India Limited |
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| Partner #4: Masud, Md. Sohel <msm@iwmbd.org>, IWM - Institute of Water Modeling |
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| Deliverable Ranking |
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Submitted on 2016-03-01 at 17:49 UTC

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|----------------------------------------------------------------------------|---------------|
| 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: IBFI Workshop report and scaling up process for long-term sustainability of the programme | |
| 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: 2018 | |
| Status: <Not defined> | |

Submitted on 2016-03-01 at 17:49 UTC

| Next-user |
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| Governments, Public and Private Insurance company, Financial institutions |
| Knowledge, attitude, skills and practice changes expected in next-user: KAP is expected to change among multi-lateral partners including farmers/households who were severely affected by flooding in the region. New KAP will help in address poverty, vulnerability and hazard and reduce their exposure to flood risks. |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Assumption is that insurance can play an important role in reducing risks, not only by helping affected households/farmers to recover from catastrophes flooding through financial compensation, but also encouraging behavior that reduces their exposures to disaster risks, especially as government often shoulders the financial burden to support local communities. |

| Partners contributing to this deliverable |
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| Partner #1 (Responsible): Plappallil, Joseph J. <pjoseph@aicoindia.com>, AIC - Agriculture Insurance Company of India Limited |
| Partner #2: Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute |
| Partner #3: Rao Gattineni, Srinivasa <rao.gs@eemausam.com>, eeMausam Weather Risk Management Services Private LTD |
| Partner #4: Masud, Md. Sohel <msm@iwmbd.org>, IWM - Institute of Water Modeling |
| Partner #5: Raju, Satish <Satish_Raju@swissre.com>, Swiss Re - Swiss Reinsurance Company Ltd |

| 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> |

Submitted on 2016-03-01 at 17:49 UTC

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| Creator / Authors: <Not defined> |
| Author Identifier: <Not defined> |
| Publication / Creation date: <Not defined> |
| Language: <Not defined> |
| Coverage: <Not defined> |

| Deliverable Data sharing |
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| Deliverable files <Not defined> |

Deliverable #11

| Main Information |
|---------------------------------------------------------------------------------------------------------------------------|
| Title: Report on institutional framework and financial mechanism for scaling up/out index based insurance products |
| 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: 2017 |
| Status: <Not defined> |

| Next-user |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Governments, Public and Private Insurance company, Financial institutions |
| Knowledge, attitude, skills and practice changes expected in next-user: Policy advocacy workshops will be organized for wider acceptability of the insurance products |
| Strategies (facilitation, engagement, knowledge sharing etc.) will be used to encourage and enable next-user to utilize deliverables and adopt changes: Engagement through consultative discussion on the new knowledge being generated since the inception of IBFI and utilize business model being development to promote ex-ante disaster measures to address disaster risk reduction in the region. |

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

| Deliverable Ranking |
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Submitted on 2016-03-01 at 17:49 UTC

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|----------------------------------------------------------------------------|---------------|
| 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 |
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| Deliverable files <Not defined> |

5.3 Summary on next-users

| Next user #1 |
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| <p>Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: Chairman, Bihar State Disaster Management Authority (BSDMA)</p> |
| <p>Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: Facilitation, engagement, knowledge sharing, needs assessment, relationship building</p> |
| <p>Reported deliverables serve as evidence towards this achieved change: The Chairman of BSDMA is one of the highest administrative official within the Disaster Management Authority who is central to the success of the flood insurance project in Bihar. The programme provides win-win solutions for a range of risk reduction measures and reducing poverty. The Chairman, BSDMA keen interest in this project is reflected by many occasions that he has made himself available to meet with the project team and agreed to provide opinion column in the IBFI film and supporting subsidizing the product by paying premium on behalf of the farmers/households.</p> |
| <p>Lessons and implications for the next planning cycle: Relationship building with key stakeholders that is win-win works well. Regular engagement and appraisal of the project activities helped in involving the stakeholders. Even these take time and can be further improved upon as progress is made.</p> |
| Next user #2 |
| <p>Key next user for the current reporting period. Key game changers. Observed Knowledge, Attitude, Skills and practice changes: Additional Secretary, Ministry of Disaster Management, Bangladesh</p> |
| <p>Strategies (facilitation, engagement, knowledge sharing etc.) you used to encourage and enable this next user to utilize deliverables and adopt changes: Facilitation, engagement, knowledge sharing, needs assessment, relationship building</p> |
| <p>Reported deliverables serve as evidence towards this achieved change: Additional Secretary, MoDM was very supportive our programme from the start in attending the inception workshop and facilities all possible support to establish good relationship for a successful implementation. Addl Secretary keen with the idea of organizing policy dialogue workshop on flood insurance among other stakeholders for wider acceptance and scaling potential. Also agreed to support local communities to subsidized the premium under the Bangladesh Climate Resilience Funds.</p> |
| <p>Lessons and implications for the next planning cycle: Relationship building with key stakeholders that is win-win works well. Regular engagement and appraisal of the project activities helped in involving the stakeholders. Even these take time and can be further improved upon as progress is made.</p> |

5.4 Project highlights

6. Activities

| Activity #1 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title: Modeling and Development of Index-Based Flood Insurance Product | |
| Description: For 2015 and 2016, there will be two broad activities including: (1) Scoping report: Current status of Index Based Flood Insurance (IBFI) in South Asia to identify key challenges and market development to support vulnerable communities affected by severe flooding; (2) building flood hazard model for IBFI that includes collection of various data sources, modeling and development of index parameters. The developed flood models will be capable to generate local level flood information based on FFWC/CWC model results and other related data sources. The flood hazard model will be developed for 2 sites to generate flood parameters (2) undertake financial feasibility of index based insurance products under different scenario in cooperation with insurance companies and households living in heavily flooded areas and develop business models and (3) workshop on the initial results on index parameters for development of IBFI among various stakeholders in the region. | |
| Start date (dd-MM-yyyy): 01-01-2015 | End date (dd-MM-yyyy): 31-12-2015 |
| Leader: Amarnath, Giriraj <a.giriraj@cgiar.org>, IWMI - International Water Management Institute | |
| Status: Extended | Justification: This is the major component of the project. Constraints in obtaining the data from government was very challenging to setup flood hazard model. Also having MoU with project partners took quite sometime due to budget cuts. We are expecting all the activities related to modeling and product development will be completed by April 2016. |

| Activity #2 | |
|---------------------------------------------------------------------------------------------------------|------------------------------------------|
| Title: NA | |
| Description: NA | |
| Start date (dd-MM-yyyy): 01-01-2016 | End date (dd-MM-yyyy): 31-12-2016 |
| Leader: Amarnath, Giriraj <a.giriraj@cgiar.org>, IWMI - International Water Management Institute | |
| Status: On-going | Justification: NA |

| Activity #3 | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Title: Testing and evaluation of IBFI in the selected districts/States in cooperation with insurance industry | |
| Description: There will be three broad activities including: (1) Evaluation and monitoring of flood index parameters for the IBFI scheme that contributes the exacerbated situation of flood damages to agriculture; (2) develop business models acceptable to farmers as well as the insurance industry; and (3) prototype development of insurance contract with insurance companies -governments on the IBFI scheme | |
| Start date (dd-MM-yyyy): 01-01-2016 | End date (dd-MM-yyyy): 31-12-2017 |
| Leader: Amarnath, Giriraj <a.giriraj@cgiar.org>, IWMI - International Water Management Institute | |

Submitted on 2016-03-01 at 17:49 UTC

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| Status: On-going | Justification: The activity are in steady progress for successful testing and implementation of IBFI. We have budget cuts in 2016 and trying to address through bilateral funding contribution, however we see some implementation limitation. |
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| Activity #4 | |
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| Title: IBFI scheme scaling-up and institutional framework to support governments and the private sector | |
| Description: For 2018, there will be three broad activities including: (1) evolve institutional framework for larger acceptability of the insurance products; (2) assessment on index-based insurance implementation and sustainability; (3) workshop on the success of IBFI and scaling up process for long-term sustainability of the programme. | |
| Start date (dd-MM-yyyy): 01-01-2017 | End date (dd-MM-yyyy): 31-12-2018 |
| Leader: Joshi, PK <p.joshi@cgiar.org>, IFPRI - International Food Policy Research Institute | |
| Status: Extended | Justification: IFPRI partnership for 2016 has been dropped with no funds allocated. We are internally exploring to initiate the 2016 activities by identifying internal staff and external partners, as this will be very important for developing successful scaling strategy and develop business model for government to implement in a large-scale. |

Lessons regarding your project activities and possible implications for the coming planning cycle: Agreement with project partners with the funding cuts has some limitation, we are in discussion with partners to address this issue. Also drop of IFPRI and the activities being assessed and IWMI will be carried out this task with limited resources.

Submitted on 2016-03-01 at 17:49 UTC

7. Leverages

<Not defined>