2022 AICCRA Partnership Survey Results Report

Tonya Schutz | Margarita M. Ramirez | Julian Marchi | Osana Bonilla-Fidji |
Allison Poulos | Davide Cali | Collins Ageyo | Valentina Giombini

2022 Partnership Survey Results Report
JANUARY 2023

Survey Design:

Tonya Schuetz and Margarita Ramirez
French Translation of Survey:

Julian Marchi and Osana Bonilla Findji

Survey Analysis and Report:

Allison Poulos, Davide Calì, Collins Ageyo and Valentina Giombini

Summary

Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA) is a USD 60 million three-year project, funded by the World Bank and being led by CIAT, with participating partners from six countries: Ethiopia, Kenya, Zambia, Ghana, Mali and Senegal. This report provides an overview of the Satisfaction Survey that was disseminated to partners to gather their feedback on three of the intermediate Project Indicators (IPI), as laid out in the Project Implementation Arrangements. These indicators capture progress on (1 - IPI 1.3) the satisfaction with the usefulness, accessibility and relevance, particularly for gender and youth responsiveness, (2 - IPI 2.4) effectiveness of partnerships and (3 - IPI 3.3) the use or adaptation of AICCRA-funded climate-relevant knowledge products, decision-making tools and services.

The survey was open from 8 December 2022 to 11 January 2023 Cluster leads provided the products/services to survey for their cluster, and they sent the survey to their partners totaling 451 recipients. There were 312 responses from 309 unique individuals, which was a 69% response rate. Three individuals reported on two separate Clusters.

All second-year targets were achieved. Satisfaction with the products and services of the project (IPI 1.3) attained an average of 82%, 2% higher than the 2021 average of 80% and 5% higher than the target of 75%. Effectiveness of partnerships (IPI 2.4) surpassed the target of 75% and achieved an average score of 85% for all criteria including Vision, Leadership, Accountability, Communications & Collaboration and Impact, which matches the 2021 result. Through an elaborative capacity development program, IPI 3.3 - which looked precisely at how many respondents have used the products - scored an average of 73% confirmed use (233 identified use cases); well above the 12.5% target for year two. Continuous feedback on the survey design and results are also being compiled and will help improve the process for next year.

Table of Contents

Tables

Box

Background

Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA) is a USD 60 million three-year project, funded by the World Bank and being led by CIAT[1] . Partners are participating from six countries: Ethiopia, Kenya, Zambia, Ghana, Mali and Senegal.

Within the Project Implementation Arrangements, the Monitoring and Evaluation component, which is also being led by CIAT, includes a monitoring framework for reporting. Monitoring is done at the Cluster Level using Intermediate Project Indicators (IPI). Three of these indicators are done through a joint centrally administered partner and stakeholders survey, and include:

- IPI 1.3: Satisfaction with the quality and usefulness of climate–relevant knowledge products, decision-making tools and services received under AICCRA expressed by surveyed partners and stakeholders (Percentage)*
- IPI 2.4: Satisfaction with the effectiveness of the partnerships under AICCRA expressed by surveyed partners and stakeholders (Percentage)*
- IPI 3.3: Use or adaptation of ACCRA-funded climate-relevant knowledge products, decision-making tools and services stated and confirmed by surveyed partners and stakeholders (Percentage)*

The report that follows provides an overview of the survey that was used for this evaluation, the results, the analysis and recommendations to improve the survey for next year.

The survey was sent to individual stakeholders identified by each cluster, with a list of services, tools, or other activities that the stakeholders would have engaged with in their respective Clusters. One Cluster - Theme 4 - did not have their own services, instead, they collaborated on a number of services within other Clusters. Ethiopia also developed three surveys - one with all services, and two separate ones specific for CIS and CSA.

---

[1] CIAT is part of the Alliance Bioversity CIAT through the Partnership Agreement between the two international Centers, in force since January 1, 2020, having a director general and a common board of trustees as part of its governance structure. The Alliance delivers research-based solutions that harness agricultural biodiversity and sustainably transform food systems to improve people's lives. Alliance solutions address the global crises of malnutrition, climate change, biodiversity loss, and environmental degradation. The Alliance is part of CGIAR, a global research partnership for a food-secure future.

Highlights

Table 1. Indicator Results against Target

Indicator	Target	Result 2021	Result 2022
IPI 1.3 Satisfaction	> 75%	80%	82%
IPI 2.4 Effectiveness	> 75%	85%	85%
IPI 3.3 Use	> 2.5% 2021 >12.5% 2022	61%	73%

Table 2. Results by Cluster

Cluster	# Respondents	IPI 1.3 Target 75%	IPI 2.4 Target 75%	IPI 3.3 Target 2.5%
Theme 1: Policies and Institutions	10	79%	86%	100%
Theme 2: Climate-Smart Technologies	8	81%	87%	75%
Theme 4: Climate Information Services	7	81%	77%	68%
East Africa	44	88%	89%	66%
West Africa	22	82%	83%	86%
Ethiopia	61	80%	87%	75%
Ethiopia CIS	4	84%	81%	25%
Ethiopia CSA	27	84%	84%	67%
Ghana	44	81%	90%	91%

Kenya	25	86%	89%	72%
Mali	25	91%	86%	96%
Senegal	11	**73%**	79%	55%
Zambia	24	77%	84%	67%

Feedback by Partners

The section below summarizes the comments provided by the respondents by Cluster:

- Theme 1 - Improve scope for Southern Africa; additional countries and organizations, and with Forestry sector, e.g., KEFRI
- Theme 1 - Support to East African Farmers Federation (EAFF) climate policy and call to action for COP 274 was appreciated
- Theme 1 - Leadership courses were well received
- Theme 2 - Request for more involvement with CIAT initiatives on climate services, especially on bundling.
- Theme 2 - pre-COP27 meeting was very useful
- Theme 4 - Appreciate the local context; currently the focus is too high level; important to know how AICRA interfaces with the government systems, procedures and processes as it could slow down implementation of project activities.
- East and Southern Africa - the work of AICCRA is very aligned with the needs of the region.
- East and Southern Africa - requests for more capacity building activities, and to incorporate into the university curriculum
- West Africa - NextGen (PyCPT 2) Seasonal Forecasting Approach/Tool - incorporate station data; more training welcome
- Ethiopia - Strengthen the institutional engagement
- Ethiopia - Comments confirm the high usage of the services in the Cluster.
- Ethiopia - Expand the project scale, to involve more people in climate smart innovation and to overcome the effect of the change of climate. This project also needs to enlarge its involvement and partnership with stakeholders and develop a task for longer periods to make a substantial impact.

- Ethiopia - more capacity building activities; especially on Climate Change.
- Ethiopia - Weekly, or monthly, communications to ensure the goal and objective of the project.
- Ethiopia - More money needed to scale out.
- Ghana - would like more opportunities for women
- Ghana - Smart Maize Seeds were well received
- Kenya - collaboration and capacity buildings are appreciated.
- Mali - "Sensitizing women to the effects of climate change and providing them with rice seeds adapted to climate change are necessary to improve their yields"; involve more women in the project and as extension agents.
- Mali - CDT tool is highly used.
- Mali - include MALI METEO in the survey next year.
- Senegal - is AICCRA involved in policy development?
- Senegal - please define roles of ISRA and ANCAR
- Zambia - internship program is highly valued

Survey Methodology

Survey Design

The survey followed the framework laid out in the AICCRA Project Implementation Manual and was designed to allow the AICCRA clusters and the overall project to a) get rated against the target from the results framework on satisfaction, effectiveness and use and b) for each cluster to learn if they are doing things right, and if they are doing the right things. See box 1 for the full wording of the indicators.

Box 1 satisfaction, effectiveness and use indicators from the AICCRA results framework.

- IPI 1.3: Satisfaction with the quality and usefulness of climate–relevant knowledge products, decision-making tools and services received under AICCRA expressed by surveyed partners and stakeholders (Percentage)*
- IPI 2.4: Satisfaction with the effectiveness of the partnerships under AICCRA expressed by surveyed partners and stakeholders (Percentage)*

> ● IPI 3.3: Use or adaptation of ACCRA-funded climate-relevant knowledge products, decision-making tools and services stated and confirmed by surveyed partners and stakeholders (Percentage)*

IPI 1.3

The first indicator, IPI 1.3, was evaluated with three survey questions
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?
- How **relevant and useful** are the following products/ services in particular for gender / youth responsiveness?

Respondents were asked only to rate the products and services selected by the Cluster leaders.
The survey was sent to individual stakeholders identified by each cluster, with a list of services, tools, or other activities that the stakeholders would have engaged with. As indicated above, respondents for Theme 4: Climate Information Services were asked to complete the survey for both East Africa and Senegal as they collaborated. If they were not aware, they were to indicate N/A. Ratings were as follows:

- *N/A = cannot say/ not applicable (e.g., when you have not used any of these products/ services)*
- *1 = 0-20% satisfied*
- *2 = 21-40% satisfied*
- *3 = 41-60% satisfied*
- *4 = 61-80% satisfied*
- *5 = very satisfied/ very good/ excellent (81-100% satisfied)*

Results are provided for each question, as well as an overall average.

IPI 2.4

For Indicator IPI 2.4, the respondents were asked to assess if AICCRA meets the following criteria:
1. **Vision:** The AICCRA project as our partner is e.g., aligned to my organizational goals
2. **Leadership:** The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising
3. **Accountability**: The AICCRA project as our partner e.g., reports on time; openly shares results so

that they can be used for decision-making; funds are spent on time

4. **Communication and Collaboration:** The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information
5. **Impact:** The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context

Ratings were provided on the following scale:

- *N/A = cannot say/ not applicable (e.g., when you have not used any of these products/ services)*
- *1 = 0-20% satisfied*
- *2 = 21-40% satisfied*
- *3 = 41-60% satisfied*
- *4 = 61-80% satisfied*

The scoring is based on the assumption that a higher rating of meeting the criteria is associated with increased effectiveness of the partnership. Respondents were invited to provide further explanations for the rating and suggestions for improvements.

IPI 3.3

This indicator, IPI 3.3, specifically targeted products and services that had been used by the respondent. The survey asked, "Have you used one or more of the above products/ services?". Responses were either Yes, No or Maybe. A review of the "Maybe" replies together with their comment on a particular service was used to confirm if a "Maybe" was converted to a "Yes" or a "No". The percent of "Yes" plus converted "Maybe" over "total respondents" for the cluster was averaged to provide the result. Respondents providing a ranking below 3 were invited to provide further explanations for the rating and suggestions for improvements.

Final Comments

Respondents also had the opportunity to leave final questions or comments, with their name and contact email as an option if they were willing to provide more qualitative suggestions.

Survey Analysis

To avoid respondents from responding to the wrong cluster, separate surveys were designed for each Cluster. Each Cluster survey was administered in Microsoft Forms, which includes an Excel file of the results. The Cluster Excel files were analyzed as follows:

- **Respondents.** There were 312 respondents. As a respondent was allowed to respond to two or more clusters, duplicates were identified. Three individuals reported on two separate Clusters. If a respondent replied to the same Cluster twice, their second response was removed. However, for Mali the opposite was done, the second response was kept as some services were added later. This left 309 unique respondents, for which the demographics results were calculated.

- **Indicators IPI 1.3.**
  The final IPI 1.3 satisfaction score is the average of the score for the three questions:
    1. How satisfied are you with the **usefulness** of the following products/ services?
    2. How satisfied are you with the **accessibility** of the following products/ services <u>in particular for gender/ youth responsiveness</u>?
    3. How **relevant and useful** are the following products/ services <u>in particular for gender / youth responsiveness</u>?

  For each IPI 1.3 question, the following process was followed to calculate the level of satisfaction:

  Step 1. Count the number of replies per product/service, exclude N/A.
  Step 2. Take the percentage of those that replied over total respondents per cluster. This produced the percent response rate by product/service.
  Step 3. Sum the scores of those that replied per product/service.
  Step 4. Take the average (total score/number of replies)
  Step 5. Multiple Step 4 by .2 and convert to a percent to obtain the percent satisfaction per product/service.

  The average of all three IPI 1.3 questions was averaged to provide the final score, or the level of satisfaction.

- **Indicator IPI 2.4**
  The IPI 2.4 level of satisfaction score is the average score of the scores for each criteria:

  Vision: The AICCRA project as our partner is e.g., aligned to my organizational goals
  Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising
  Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so

that they can be used for decision-making; funds are spent on time

Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information

Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context

For each IPI 2.4 criteria, the process was the same as for IPI 1.3 listed above.

- **Indicator IPI 3.3**
  This indicator asked, "Have you used one or more of the above products/ services?". Responses were either Yes, No or Maybe.

  The process for calculating the final percent use was as follows:

  Step 1. Total of those that replied to the question, "Have you used one or more of the above products/services?"
  Step 2. Total of those that indicated "No"
  Step 3. Total of those that indicated "Maybe"
  Step 4. Total of those that indicated "Yes"
  Step 5. Review the "Maybe" comments to see if the "Maybe" could be converted to a "Yes"
  Step 5. Percent of those that indicated Yes+converted Maybes divided by total respondents and converted to a percentage.

- The scores were compiled by Cluster, but also averaged for each area:
  - IPI 1.3 Usefulness
  - IPI 1.3 Accessibility
  - IPI 1.3 Relevance
  - **IPI 1.3 Satisfaction Ave**
  - **IPI 2.4 Effectiveness**
  - **IPI 3.3 Use**

- The results for all products/services in IPI 1.3 were reviewed and the average for the top five products/services was calculated.

- Open comments were left intact, grouped when possible and only spelling errors were corrected.

Learning: Conclusions & Recommendations on Survey Design

Following the first-year recommendations, the 2022 survey changed the indicator scale for IPI 2.4 to ensure it was consistent with the other two indicators. Furthermore, to ensure that respondents responded to the correct survey, separate surveys were created for each Cluster.

Recommendations for next year include:

1. Create a new survey for each cluster; avoid copying. Copying creates space and prevents the cells from aligning directly with the questions.
2. Embed the second language on the first; this will shorten the survey length and ensure that results in different languages are automatically aligned.
3. Use branching to ensure that the respondent is replying specifically to the named service, e.g.,
   a. Have you used this service: Yes/No - if no, they go to the next service; if Yes, they are prompted to rank IPI 1.3 Usefulness, Accessibility and Relevance. Immediately following, they are asked about IPI 3.3 Use, and to provide a direct example.
4. Suggest adding a question specifically on recommendations.
5. Do not allow a respondent to reply more than once.

Survey Results

Demographics

The survey was sent to 451 recipients. There were 312 responses, with a response rate of 69%, from 309 respondents. Three individuals reported on two separate Clusters. Eleven individuals responded twice. As a rule, their second response was removed, and omitted from the survey calculations. However, for Mali the opposite was done, the second response was kept as some services were added later.

Clusters with the most respondents:
- Ethiopia had 61 respondents
- Eastern and Southern Africa and Ghana had 44 respondents
- Ethiopia CSA had 27 respondents
- Kenya and Mali had 25 respondents
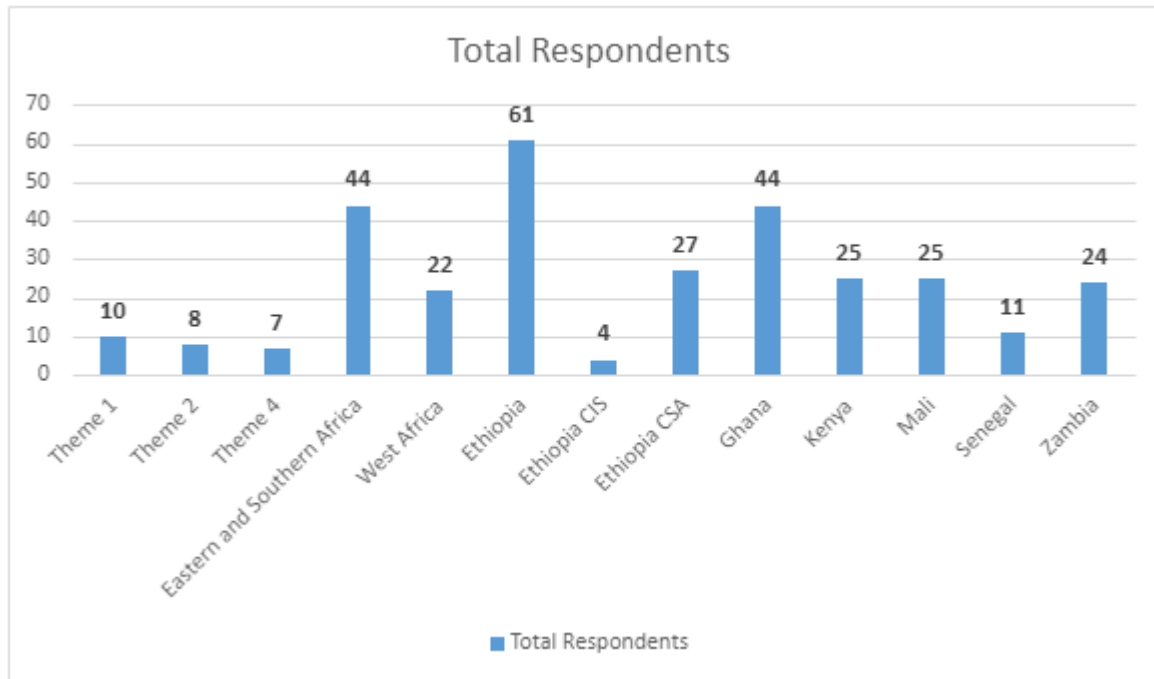
Gender

- 80% of the respondents (N= 247) were male
- 20% (N=62) were female
- Gender ratio varied by cluster with Theme 2 having a 50% female representation, followed by Zambia (42%), West Africa (32%) and Theme 1 (30%). Ethiopia reported less on all three surveys Ethiopia (5%), Ethiopia CIS (0%) and Ethiopia CSA (11%).

Gender

Gender by Cluster

	01 Theme 1	02 Theme 2	03 Theme 4	04 EA	05 WA	06 Ethiopia	07 Ethiopia CIS	08 Ethiopia CSA	09 Ghana	10 Kenya	11 Mali	12 Senegal	13 Zambia
Male	7	4	6	35	15	58	4	24	35	19	19	9	14
Female	3	4	1	9	7	3		3	9	6	6	2	10
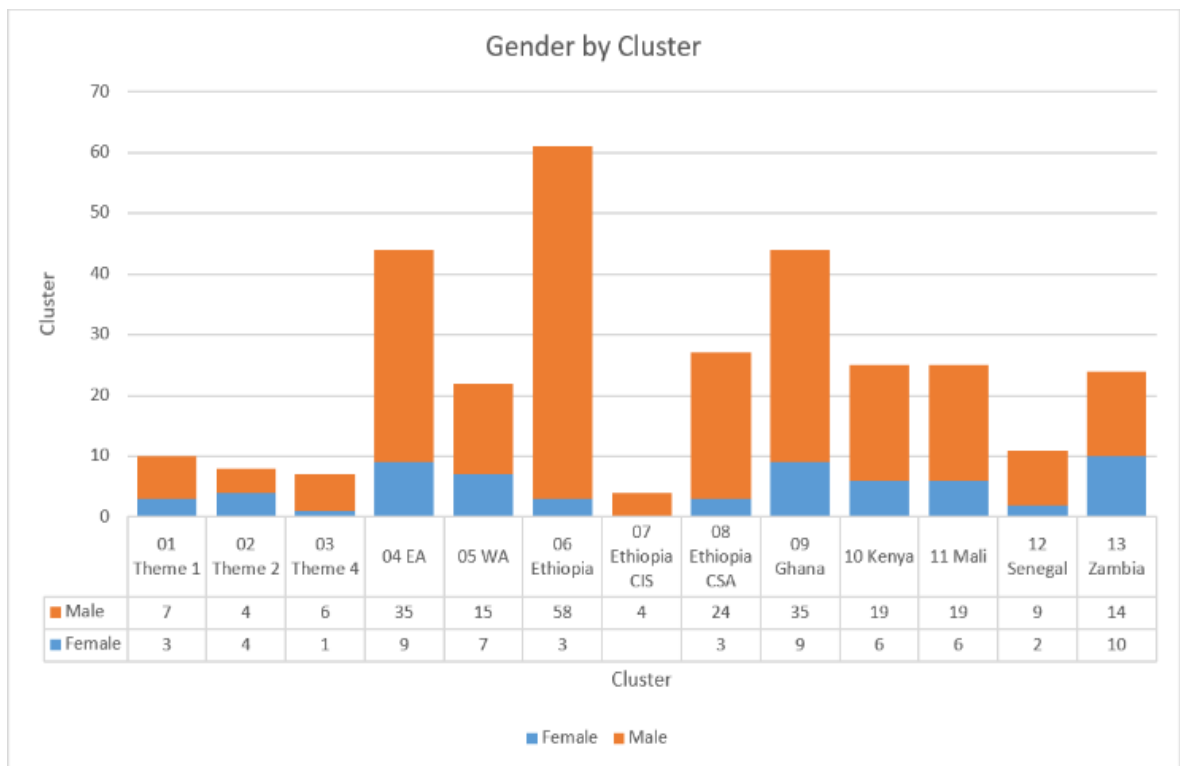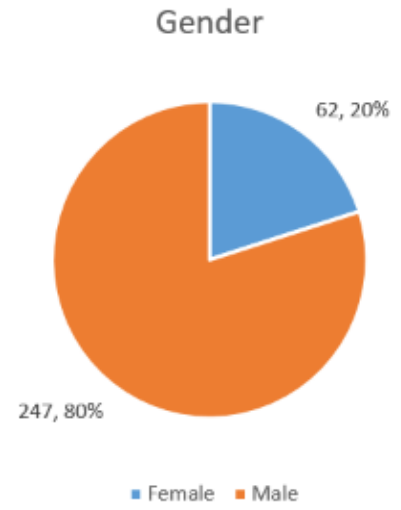
Age

- 99% (N=306) respondents were 25 years old and above
- 1% (N=3) were between 15-24 years old
- Only Zambia had respondents between 15-24 years old

Age

3, 1%

306, 99%

■ 15-24 ■ 25 and above

Age by Cluster

	01 Theme 1	02 Theme 2	03 Theme 4	04 EA	05 WA	06 Ethiopia	07 Ethiopia CIS	08 Ethiopia CSA	09 Ghana	10 Kenya	11 Mali	12 Senegal	13 Zambia
15-24													3
25 and above	10	8	7	44	22	61	4	27	44	25	25	11	21

Cluster

■ 25 and above ■ 15-24
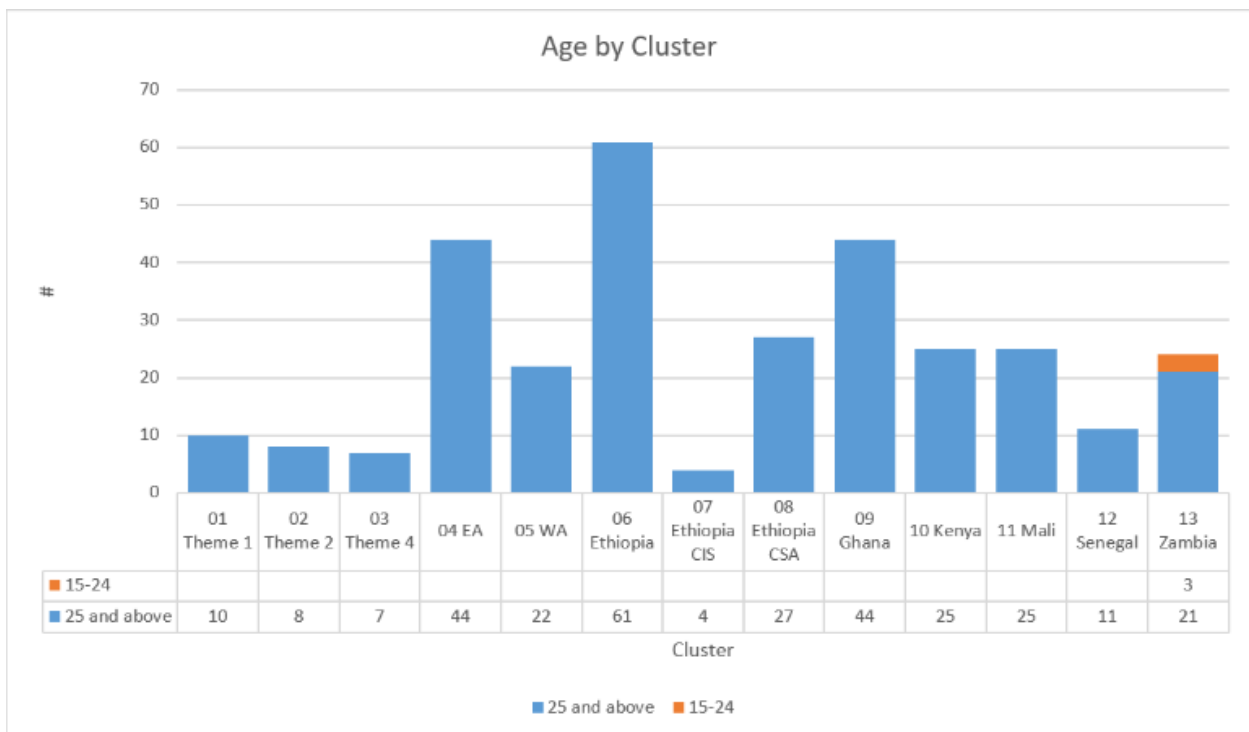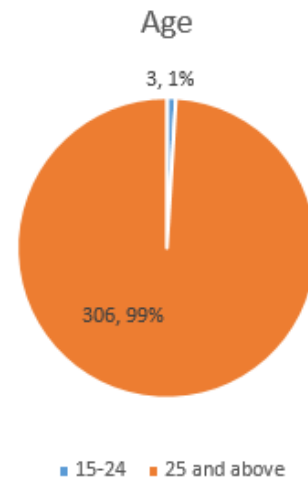
Relationship with AICCRA

- 55% of the respondents (N=170) indicated that had a formal agreement (MoU or LoA) with AICCRA
- 34% of the respondents (N=106) stated that they were a partner or stakeholder,
  but held no formal agreement
- 11% of the respondents (N=33) of the respondents selected "Other", which included:
  - District Focal Person(5)
  - Government/Ministry (3)
  - Interns (3)
  - NARS (2)
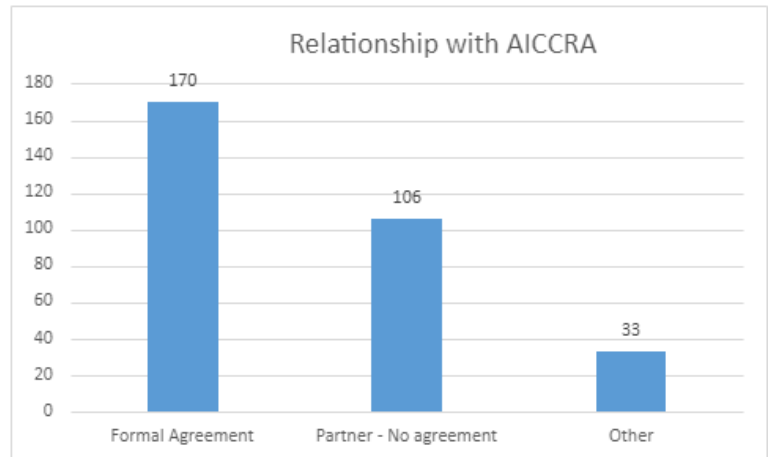
Organization Affiliation

Organization affiliation was highly varied. 226 indicated **Other**, and 1 left the field blank.
Of the remaining 82, top representation was from:
- AGRHYMET 14 respondents (5%)
- GMA and KMD both with 11 respondents (4%)
- RAFCSIR with 8 respondents (3%)
The graph below shows the breakdown of all 82 individuals:

Organizations

	African Union Commision	AGNES	AGRHYMET	ANACIM	CABI	CERAAS	FAO	Ghana Meteorological Agency	KARLO	KMD	RAFCSIR-Crops Research Institute	Syngenta Foundation	WARMA	WorldFish	ZMD
Series1	6	4	14	7	2	2	5	11	2	11	8	3	2	2	3
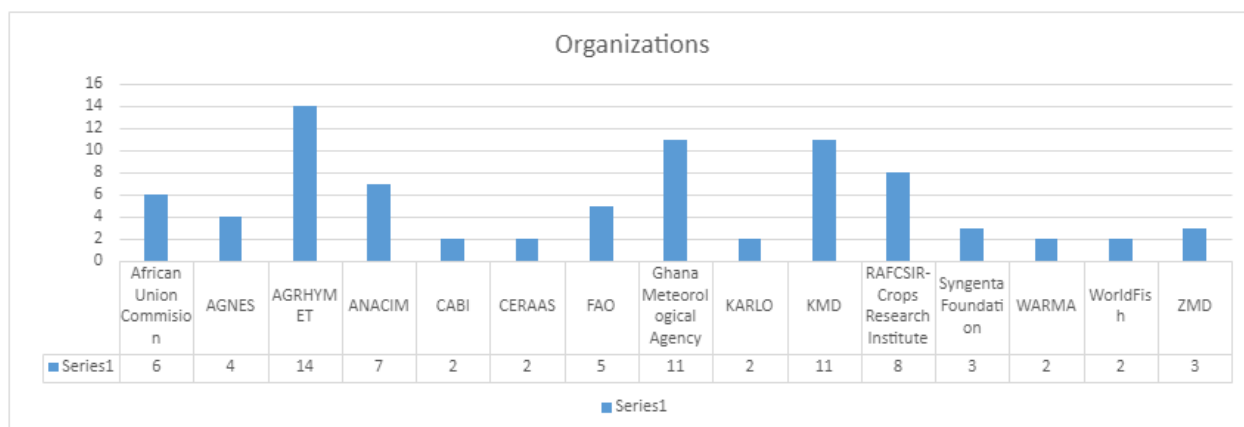
Summary of Results by Cluster

AICCRA met all targets for year 1 (see Table 1), and all clusters achieved the satisfaction goal of 75%, with the exception of one cluster (see Table 2). Mali had the highest average IPI 1.3 at 91% satisfaction, this was followed by East Africa at 88%, and Kenya with 86%. Senegal reported a 73% satisfaction, and though they didn't hit the target, it was an improvement over 2021, which had a 72% satisfaction. A comparison of the repeated clusters below:

Table 3. IPI 1.3 2022 vs 2021

Cluster	IPI 1.3 2022	IPI 1.3 2021	Change
Theme 1: Policies and Institutions	82%	80%	+2%
Theme 2: Climate-Smart Technologies	81%	79%	+2%
East Africa	88%	84%	+4%
West Africa	82%	83%	-1%
Ethiopia	80%	85%	-5%
Ghana	81%	82%	-1%

Kenya	86%	80%	+6%
Mali	91%	82%	+9%
Senegal	73%	72%	+1%
Zambia	77%	73%	+4%

Table 4. IPI 1.3 Top Five Service/Products

Mali claimed the top three Services/Products and tied Ghana for fourth place. Mali's "RiceAdvice" was the overall top service with an IPI 1.3 average of 97%, followed by KAFACI 1 (96%), Daily and 10-day weather forecasts (95%) and Direct Seeder (94%). Ghana tied for 4th place with Smart Maize Seeds (94%).

Cluster	Service/Product	IPI 1.3 Usefulness	IPI 1.3 Accessibility	IPI 1.3 Relevance	IPI 1.3 Average
Mali	RiceAdvice	98%	100%	94%	97%
Mali	KAFACI 1 (drought and flooding tolerant) rice variety	100%	100%	87%	96%
Mali	Daily and 10-day weather forecasts	96%	94%	94%	95%
Ghana	Smart Maize Seeds	93%	94%	95%	94%
Mali	Direct seeder	93%	100%	89%	94%

Table 5. IPI 2.4 Effectiveness of Partnerships

Theme	Vision	Leadership	Account-ability	Commun-ication	Impact	Average
Theme 1	82%	89%	89%	83%	90%	86%
Theme 2	91%	87%	77%	91%	89%	87%
Theme 4	91%	66%	77%	86%	67%	77%
East Africa	90%	85%	90%	91%	88%	89%
West Africa	88%	84%	81%	79%	85%	83%
Ethiopia	90%	85%	86%	86%	87%	87%
Ethiopia CIS	95%	70%	75%	80%	87%	81%
Ethiopia CSA	89%	84%	82%	83%	84%	84%
Ghana	97%	87%	86%	88%	90%	90%
Kenya	91%	89%	85%	91%	88%	89%
Mali	89%	84%	80%	87%	91%	86%
Senegal	76%	78%	82%	74%	82%	79%
Zambia	91%	80%	79%	85%	85%	84%
Ave	89%	82%	82%	85%	86%	**85%**

IPI 2.4 exceeded the 75% target with an 85% score overall (see Table 4 above, lower right-hand score), with a breakdown by criteria: Vision (89%), Leadership (82%), Accountability (82%), Communication and

Collaboration (85%), Impact (86%). There were only four instances where the criteria weren't met in a cluster: Leadership (Theme 4 and Ethiopia CIS); Communication (Senegal) and Impact (Theme 4). Top averages by Cluster: Ghana (90%), East Africa and Kenya (89%). The table below shows the comparison to 2021 - five Clusters reported improvements; four reported decreases, and 1 remained unchanged.

Table 6. IPI 2.4 Effectiveness of Partnerships 2022 vs 2021

Cluster	IPI 2.4 2022	IPI 2.4 2021	Change
Theme 1: Policies and Institutions	86%	83%	+3%
Theme 2: Climate-Smart Technologies	87%	83%	+4%
East Africa	89%	86%	+3%
West Africa	83%	87%	-4%
Ethiopia	87%	89%	-2%
Ghana	90%	93%	-3%
Kenya	89%	83%	+6%
Mali	86%	84%	+2%
Senegal	79%	82%	-3%
Zambia	84%	84%	+0%

Table 7. IPI 3.3 Use and Accessibility

As per Table 7 below, the use or adaptation of AICCRA-funded climate-relevant knowledge products, decision-making tools and services well exceeded the Target of 12.5% for year 2. The average for all clusters was 73%, with 232 respondents indicating that they have used a product or service. This includes 222 that reported Yes plus 10 that reported Maybe but were confirmed through their comments to have used a service . Highest use by number was Ethiopia with 46, followed by Ghana with 40 and East Africa with 29. Theme 4 Climate Information Services was excluded from the calculations as they did not survey

any services but collaborated with other Clusters. See their specific results below.

	Total Respondents	No	Maybe	Yes	% Yes	% Yes, including converted Maybe
Theme 1: Policies and Institutions	10	0	1	9	90%	**100%**
Theme 2: Climate-Smart Technologies	8	2	0	6	75%	**75%**
Theme 4: Climate Information Services	*Average of the collaborating clusters:* *East Africa. Ethiopia, Ethiopia CIS, Ghana, Kenya, Mali, Senegal and Zambia.*					**68%**
East Africa	44	15	2	27	61%	**66%**
West Africa	22	3	2	17	77%	**86%**
Ethiopia	61	15	0	46	75%	**75%**
Ethiopia CIS	4	3	1	0	0%	**25%**
Ethiopia CSA	27	9	1	17	63%	**67%**
Ghana	44	4	1	39	89%	**91%**
Kenya	25	7	0	18	72%	**72%**
Mali	25	1	1	23	92%	**96%**
Senegal	11	5	0	6	55%	**55%**
Zambia	24	7	3	14	58%	**67%**

	Total Respondents	No	Maybe	Yes	% Yes	% Yes, including converted Maybe
Theme 1: Policies and Institutions	10	0	1	9	90%	**100%**
Theme 2: Climate-Smart Technologies	8	2	0	6	75%	**75%**
Theme 4: Climate Information Services	*Average of the collaborating clusters:* East Africa. Ethiopia, Ethiopia CIS, Ghana, Kenya, Mali, Senegal and Zambia.					**68%**
East Africa	44	15	2	27	61%	**66%**
West Africa	22	3	2	17	77%	**86%**
Ethiopia	61	15	0	46	75%	**75%**
Ethiopia CIS	4	3	1	0	0%	**25%**
Ethiopia CSA	27	9	1	17	63%	**67%**
Ghana	44	4	1	39	89%	**91%**
Kenya	25	7	0	18	72%	**72%**
Mali	25	1	1	23	92%	**96%**
Average						**73%**

Detailed Results by Cluster

Theme 1: Policies and Institutions for Climate-Smart Agriculture

This theme supports the Africa-wide delivery of agro-climatic services and climate smart agriculture investment planning through decision support tools, policy analysis, collaborations for knowledge sharing and disseminating climate research results across the continent. During 2022, collaborations from the first year of AICCRA were strengthened and new collaborations were built. The strengthened collaborations included working closely with the African Union Commission to finalize the adoption of the African Union Climate Change and Resilient Development Strategy and Action Plan (2022-2032), with AUDA-NEPAD on policy coherence and food systems development reports, and with the Africa Group of Negotiation Expert Support (AGNES) team on their continuing Climate Leadership Program and pre-COP27 preparatory meeting. We also formed a new collaboration with the Eastern African Farmers Federation (EAFF) and supported them in developing a Call to Action ahead of COP27.

Within the Climate Leadership Program led by AGNES, the Theme 1 team teaches the module on the use of foresight and decision support tools for priority setting and long-term strategy development and the unit on decision support tools. In 2022 more than 200 participants completed the course. We collaborated with several current and past course participants to develop country-level case studies within the long-term strategy module. These case study collaborators as well as the AGNES Team Leader and key AGNES members were invited to respond to the survey.

We also invited our key partners in AUC, AUDA-NEPAD and EAFF to gather their feedback on our collaborations to date. In total, we sent the survey link to 21 people. There were 10 total respondents for Theme 1.

IPI: 1.3: Average 82%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score
Inputs and support for AGNES Climate Leadership Program4	70% (N= 7)	83%	66% (N= 7)	91%	70% (N= 7)	83%
Support to East African Farmers Federation (EAFF) climate policy and call to action for COP 27	60% (N= 6)	90%	69% (N= 7)	86%	60% (N= 6)	80%
AGNES leadership course, collaborator with national LTS case studies4	80% (N= 8)	83%	63% (N= 8)	85%	80% (N= 8)	83%
Climate policy development and engagement support to African Union Commission4	60% (N= 6)	87%	87% (N= 6)	87%	60% (N= 6)	80%
Programme and portfolio design for AUDA-NEPAD continental programme on climate-smart agriculture4	60% (N= 6)	73%	50% (N= 5)	76%	50% (N= 5)	68%
Average		83%		85%		79%
Average				82%		

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:
- The Program has very limited scope for Southern Africa
- *Aucune autres information sur les produits de l'initiative à part les sessions de formation sur la négociations climatiques [*No other information on the initiative's products other than the training sessions on climate negotiations]

IPI 2.4: Average 86%

	Effectiveness	
	Respondents	**Score[2]**
Vision: The AICCRA project as our partner is e.g., aligned to my organizational goals	90% (N= 9)	82% (4.1)
Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising	90% (N= 9)	89% (4.4)
Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	70% (N= 7)	89% (4.4)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	80% (N= 8)	83% (4.1)
Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context	80% (N= 8)	90% (4.5)
Average		86% (4.3)

Comments on Effectiveness, or explanations and justifications for rates below 3:
- We have not engaged in active fundraising
- Even though the goal of AICCRA aligned with my institution mission, the integration and exchange of information as well as collaboration is weak.
- *Aucune information sur les produits de cette initiative*
  No information on the products of this initiative

---

[2] Score is expressed in percentage using the scale of the survey. The numeric average of the score is in brackets.

IPI 3.3: Average 100%

9 out of 10 respondents (90%) indicated they have used 1 or more of these products/services.
After converting 1 respondent from Maybe to Yes, the response was 100%.

Examples include:

Policy and decision making

- Collaboration in the development of the AU Climate Change Strategy
- Used the EAFF call to Action for Cop 27 to input the POs Open letter to World leaders at Cop 27 and the UNFCCC Farmers Position at Cop 27
- One of EAFF's resolutions of the 5th EAFF FARMERS CONGRESS that took place on 13th to 14th October 2021 at LAKE NAIVASHA RESORT, KENYA is our action on climate change. In EAFF region, the JRT-FOs session was an eye opener. We are determined that EAFF and her NFOs should focus more on these topics (climate adaptation, build resilient and sustainable production systems for SHFs). As an entry point, we organized a Climate change development workshop 6th to 7th December with the theme of Enhancing the role of East African farmers in the climate change discourse. We are glad that JRT was able to present during the workshop. We have now action plan for 2023 and we want to engage differently this year.   For the first time, EAFF has been able to develop and disseminate its Call for Climate Action COP 27. This document was instrumental in shaping the PAFO (Pan African Farmers Organization) statement. EAFF participated in the COP27 with a much more informed position compared to other COPs. EAFF President and CEO held several side meetings with various stakeholders and tangible results in terms of formalizing partnership have started bearing fruits. For instance, our collaboration with PACJA. This started with our Policy and advocacy development workshop with the theme of Enhancing the role of farmers in climate change policy in East Africa held virtually on 29th October 2022 co-organized with AICCRA.   We thank so much Romy Chevalier for the support she provided to us during our first climate change workshop on 6-7 December 2022: in preparing the agenda, contacting and mobilizing our external resource persons and eventually in running the two days' workshop. It was a successful event and the content presented was very relevant and valuable for us in planning our climate activities in 2023 and identifying the key policy windows we hope to contribute towards. The workshop also assisted in building the internal climate capacity of the EAFF Secretariat, Board members and CEOs in the climate policy domain. Thank you AICCRA and we look forward to a strengthened partnership going forward.

Capacity building

- Leadership course
- I was one of the trainees organized by AGNES and I got a lot of knowledge on climate leadership and governance including gender and climate justice issues.
- Training material and delivery of the Leadership Program on LTS; Training material and delivery of the Leadership Program's module on Decision Support Tools (DSTs); Preparation of the draft of the Technical Guide on LTS
- *participation à 3 reprises pour partagez l'experience tunisienne en matière d'élaboration de la*

- *SBC et RCC LTS aux sessions de formation des négociateurs*
  Participation on three occasions to share the Tunisian experience in the development of the SBC and RCC LTS in training sessions for negotiators
- I'm a beneficiary of AGNES Climate Leadership and Diplomacy Programme; I was also supported to participate at both the ACW in Gabon and COP 27 through AICCRA support as a collaborator
- Applied the skills and knowledge gained in climate change negotiations during COP 27 and preparation of Kenya's position on climate change. Advised the government on soil carbon and sustainable land management practices. Contributed to the development of Kenya's LTS. Development of research concept notes and proposal for funding
- COP 27 MEETING; STAKEHOLDER CONSULTATIONS PRE & POST COP 27

Final Comments:

- First thank you for reach at me for my feedback, AICCRA need to wide its scope to further countries and organizations including our organization called Environmental protection authority of Ethiopia, which responsible for the formulation and implementation of environmental policies strategies and all necessary legal frameworks including Climate change issues also
- *Quel est la contribution de cette initiative dans la région nord africaine*
  What is the contribution of this initiative in the North African region
- No questions for now since we have direct contact with AICCRA
- As new partners to AICCRA, I have noted the areas of interventions being promoted have a nexus to the forestry sector, especially on livestock-food-energy-forestry. I therefore recommend that the next phases, forest-based institutions such as Kenya Forestry Research Institute (KEFRI) promoting agroforestry, landscape restoration and promotion of climate smart agriculture to be included in the subsequent phases.

Theme 2: Climate-Smart Technologies

Theme 2 focuses on fostering synergies among different streams of activities to support a sustainable process of scaling bundled CSA solutions (linking practices, technologies and services) through robust and actionable science, co-creation and capacity building underpinned by business models and sustainable finance using a gender lens.

In 2022 eight major efforts were devoted to providing methodological guidance and tools to the country–led activities related to innovative tools and approaches on gender smart investing, CSA prioritization, CBA, Business model developments and scaling CIS. Those efforts materialized in i) Climate Data Tool (CDT) Training of Mali Meteo, ii) Training on Scaling Bundled Agro-climate Advisories

for Improved Agricultural Risks Management in Ghana, iii) Market Place on bundled Climate Information Services (CIS) and Climate-Smart Agriculture (CSA) business cases during the GHACOF in Kenya, iv) Senegal's Agriculture Long Term Strategy (LTS), v) AGNES Pre-COP Meeting on Lessons and experiences on developing sectoral and economy wide long-term strategies and alignment with NDCs, vi) NAPs and SDGs in Africa, vii) Strategic Roadmap on Mainstreaming Gender-Smart Investing to scale Climate-Smart Agriculture in sub-Saharan Africa, CGIAR tools and innovations session at the Kick-off Meeting of the Pan African Readiness Programme in Morocco, and viii) Capacity building for the private sector on Climate Change, Climate Smart Agriculture and Climate Information Services in the context of the Gender Smart Accelerator Challenge in Senegal. The survey was sent to 21 partners and a total of 8 total respondents participated.

IPI: 1.3: Average 81%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?
- How **relevant and useful** are the following products/ services in particular for gender / youth responsiveness?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	**Satisfaction Score**	**Respondents**	**Satisfaction Score**	**Respondents**	**Satisfaction Score**
AICCRA Training on Scaling Bundled Agro-climate Advisories for Improved Agricultural Risks Management in Ghana	25% (N= 2)	70%	25% (N= 2)	70%	38% (N= 3)	73%
AICCRA Market Place on bundled Climate Information Services (CIS) and Climate-Smart Agriculture (CSA)	63% (N= 5)	88%	63% (N= 5)	88%	75% (N= 6)	90%

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score
business cases during the GHACOF in Kenya (23rd - 25th August 2022)						
Senegal's Agriculture Long Term Strategy (LTS)	38% (N= 3)	87%	38% (N= 3)	87%	50% (N= 4)	90%
AGNES Pre-COP Meeting: AICCRA Session: Lessons and experiences on developing sectoral and economy wide long-term strategies and alignment with NDCs, NAPs and SDGs in Africa	25% (N= 2)	80%	50% (N= 4)	70%	50% (N= 4)	85%
Strategic Roadmap on Mainstreaming Gender-Smart Investing to scale Climate-Smart Agriculture in sub-Saharan Africa	63% (N= 5)	88%	63% (N= 5)	88%	75% (N= 6)	83%
CGIAR tools and innovations session at the Kick-off Meeting of the Pan African Readiness Programme (Morocco, October 2022)	38% (N= 3)	80%	38% (N= 3)	73%	50% (N= 4)	80%
Capacity building for the private sector on Climate	38% (N= 3)	87%	25% (N= 2)	70%	38% (N= 3)	80%

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score
Change, Climate Smart Agriculture and Climate Information Services in the context of the Gender Smart Accelerator Challenge (Senegal)						
Average		83%		78%		83%
Average	81%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- *Je n'ai participé que dans une seule formation tenue au Kenya et cette dernière m'a été très utile.*
  I have only participated in one training held in Kenya and it was very helpful.

IPI 2.4: Average 87%

	Effectiveness	
	Respondents	Score
Vision: The AICCRA project as our partner is e.g., aligned to my organizational goals	88% (N= 7)	91% (4.6)
Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates;	75% (N= 6)	87% (4.3)

participates in additional fundraising		
Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	75% (N= 6)	77% (3.8)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	88% (N= 7)	91% (4.6)
Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context	88% (N= 7)	89% (4.4)
Average		87% (4.3)

Comments on Effectiveness, or explanations and justifications for rates below 3:

- *Nous ne sommes pas des partenaires directs d'ACCRA*
  We are not direct partners with ACCRA
- *je n'ai pas mis de notre inférieur à 3 car personnellement j'ai beaucoup appris avec AICcRA*
  I did not put a grade lower than 3 because I personally learned a lot with AICCRA

IPI 3.3: Average 75%

6 out of 8 respondents (75%) indicated they have used 1 or more of these products/services.

Examples include:

- AICCRA Market Place on bundled Climate Information Services (CIS) and Climate-Smart Agriculture (CSA) business cases during the GHACOF in Kenya (23rd -25th August 2022)
- *Accompagnement des entredéchirer l'agrologie business*
  Accompaniment of ripping the agrology business (?)
- *Renforcement des capacités agriculture intelligente face au climat et Système d'information Climatique*
  Capacity Building in Climate Smart Agriculture and Climate Information System
- Shamba shape up as an educative platform

- Senegal LTS is one of the case studies for the AGNES Leadership Program; PreCOP27 meeting prepared common african position on KJWA that resulted in a successful outcome at COP27
- *En attendant la mise en place de notre ferme intégrée, nous luttons contre le gaspillage de l'eau, en faisant de l'économie d'énergie, le choix des fournisseurs de fruits respectueux de l'environnement...car nous sommes tous impactés par le réchauffement climatique. Par exemple, cette année nous avons enregistré la rareté d'une bonne partie de nos produits due au changement climatique.*
  While waiting for the implementation of our integrated farm, we are fighting against the waste of water, saving energy, choosing environmentally friendly fruit suppliers...because we are all impacted by global warming. For example, this year we have recorded the scarcity of a good part of our products due to climate change.

Final Comments:

- *Nous souhaitions que notre organisation soit un partenaire formel d'ACCRA puisque ses produits nous paraissent si intéressants.*
  We would like to have our organization as a formal partner of ACCRA since we find its products very interesting.
- Request for more involvement with CIAT initiatives touching on climate services going forward especially on bundling. Such initiatives enhance use of our early warning products for resilience building in eastern Africa
- *Etant dans le domaine de la transformation de fruits et légumes nous avons été comme jamais impactés par le réchauffement climatique, tant par la rareté de certains de nos produits tant par la qualités de certains autres comme la mangue, la fleur d'hibiscus qui ont été impactés par les fortes pluies. Puisque le combat contre le réchauffement climatique est l'affaire de tout le monde, nous voudrions avoir d'autres astuces à utiliser durant le processus de transformation pour peser dans el balance des entreprises écoresponsables.*
  Being in the field of fruit and vegetable processing we have been impacted as never before by global warming, both by the scarcity of some of our products as well as the quality of some others such as mango, hibiscus flower that have been impacted by heavy rains. Since the fight against global warming is everyone's business, we would like to have other techniques to use during the transformation process to be important for eco-responsible companies.

Theme 4: Climate Information Services

This theme supports the Africa-wide uptake of effective climate information services (CIS) to enhance climate informed decision making and climate-smart policy and planning in the agriculture sector. The cluster promotes state-of-the-art tools in data access, data management, climate forecasting systems, and decision support, as well as curriculum development in climate risk management (CRM) at both technical (extension) and university level.

In 2022 the cluster was involved in numerous training and capacity building events, across all AICCRA countries and regions. A total of 28 trainings were conducted in the general areas of CIS tools, decision support systems, and CRM curriculum. All of these trainings were conducted in national or regional contexts and were organized and supported jointly with the relevant clusters. We have thus characterized these as collaborative efforts and obtained stakeholder feedback accordingly. Key partner organizations include all of the AICCRA country national meteorological agencies, the two regional climate centers (AGRHYMET and ICPAC), and agricultural extension services and universities in Ethiopia and Senegal (regarding curriculum).

Another significant effort during 2022 has involved partnering with RUFORUM in advancing a curriculum development platform to facilitate the uptake of CIS and climate-smart agriculture (CSA) innovations within the curricula of the university consortium. Work was done together in assessing topical priorities for initial inclusion, and in producing a set of technical design specifications for the platform, in close collaboration with RUFORUM management, technical experts, and selected faculty.

Also, Theme 4 has been supporting an activity advancing methodologies to assess costs and benefits of CIS programs. A framework for the analysis, and a prototype for a cost/benefit toolkit have been developed. Case studies for testing of the methodology have been identified among AICCRA countries, and data collection efforts are underway.

Due to the collaborative nature of Theme 4, the structure of the survey was different.
Like the other surveys, it asked for feedback on IPI 2.4 EFFECTIVENESS. However, IPI 1.3 USEFULNESS was evaluated by looking at the score for the services that were tagged as "** Collaborative Work. See the table under IPI 1.3 below. In addition, as IPI 3.3 Use was not asked directly, rather, an average of the scores from the collaborating clusters was used.

IPI: 1.3: Average 81%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services <u>in particular for gender/ youth responsiveness</u>?
- How **relevant and useful** are the following products/ services <u>in particular for gender / youth responsiveness</u>?

Cluster	Service/Product indicated as **collaborative work	IPI 1.3 USEFULNESS	IPI 1.3 ACCESSIBILITY	IPI 1.3 RELEVANCE	IPI 1.3 AVERAGE
EA	Building capacity for CRMA in Eastern and Southern Africa: Use case in Ethiopia**	89%	89%	**93%**	90%
EA	Strengthening the co-development of NFCS in the Eastern and Southern Africa Region**	90%	87%	90%	89%
EA	Integration of 'Climate Basics, Climate Information Systems and Climate Smart Agriculture' into university curriculum modules Use case in Ethiopia**	91%	82%	93%	88%
EA	State of the Climate Report for Africa – a multi-sectoral science policy decision support knowledge product for Africa**	85%	84%	89%	86%
EA	NextGen (PyCPT 2) Seasonal Forecasting Approach/Tool**	86%	82%	86%	84%
Ethiopia (All)	Climate Risk Management in Agricultural Extension Curriculum (CRMAE)**	79%	78%	83%	80%
Ethiopia (All)	Agricultural Stress Index System (ASIS) - rebranded as NextGen Agricultural Drought Monitoring and Warning System (NADMWS)**	78%	77%	83%	79%
Ethiopia (All)	Automatic Weather Station Data Tool (ADT) installation & training**	79%	79%	78%	79%

Cluster	Service/Product indicated as **collaborative work	IPI 1.3 USEFULNESS	IPI 1.3 ACCESSIBILITY	IPI 1.3 RELEVANCE	IPI 1.3 AVERAGE
Ethiopia (All)	Climate Data Tool (advanced training)**	79%	77%	79%	78%
Ethiopia (All)	SIMAGRI Decision Support Tool**	72%	74%	78%	75%
Ethiopia (CIS)	Automatic Weather Station Data Tool (ADT) installation & training**	100%	80%	80%	87%
Ethiopia (CIS)	Climate Data Tool (advanced training)**	100%	80%	80%	87%
Ethiopia (CIS)	Agricultural Stress Index System (ASIS) - rebranded as NextGen Agricultural Drought Monitoring and Warning System (NADMWS)**	90%	80%	80%	83%
Ethiopia (CIS)	Climate Risk Management in Agricultural Extension Curriculum (CRMAE)**	87%	73%	80%	80%
Ghana	Climate Data Tool (CDT) Training for the Ghana Meteorological Agency (GMet)**	82%	76%	77%	78%
Ghana	Automatic Weather Station Data Tool (ADT) installation & training for Ghana Meteorological Agency (GMet)**	69%	71%	73%	71%
Ghana	Data Library Maintenance and Maproom Development Training with Ghana Meteorological Department (GMet)**	69%	68%	73%	70%
Kenya	Automatic Weather Station Data Tool (ADT) installation**	87%	87%	86%	87%
Kenya	Training of Trainers (ToT) On Enhancing National Climate Services (ENACTS) Maprooms for Users**	88%	85%	86%	86%
Kenya	Advanced Climate Data Tool (CDT) training**	91%	84%	84%	86%
Kenya	Automatic Weather Station Data Tool (ADT) training**	84%	84%	85%	84%

Cluster	Service/Product indicated as **collaborative work	IPI 1.3 USEFULNESS	IPI 1.3 ACCESSIBILITY	IPI 1.3 RELEVANCE	IPI 1.3 AVERAGE
Kenya	Data Library Maintenance and Maproom Development Training**	83%	75%	82%	80%
Mali	Climate Data Tool (CDT) Training**4	89%	89%	84%	87%
Senegal	Automatic Weather Station Data Tool (ADT) installation & training for ANACIM**5	74%	71%	84%	76%
Zambia	Training of Trainers (ToT) On Enhancing National Climate Services (ENACTS) Maprooms for Users**	69%	74%	92%	78%
Zambia	Training on Automatic Weather Station Data Tool (ADT) at Zambia Meteorological Department (ZMD)**	63%	65%	92%	73%
Zambia	Data Library Maintenance and Maproom Development Training with Zambia Meteorological Department (ZMD)**	69%	60%	90%	73%
Zambia	Installation and Configuration of Automatic Weather Station Data Tool (ADT) at Zambia Meteorological Department (ZMD)**	62%	62%	90%	71%
Zambia	Advanced Training on Climate Data Tool (CDT)**	63%	65%	84%	71%
Average		81%	77%	84%	81%

IPI 2.4: Average 77%

	Effectiveness	
	Respondents	Score
Vision: The AICCRA project as our partner is e.g., aligned to my organizational goals	100% (N= 7)	91% (4.6)
Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising	100% (N= 7)	66% (3.3)
Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	100% (N= 7)	77% (3.9)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	100% (N= 7)	86% (4.3)
Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context	86% (N= 6)	67% (3.3)
Average		77% (3.9)

Comments on Effectiveness, or explanations and justifications for rates below 3:
- I strongly think the AICCRA team needs to appreciate the local context, currently the focus is too high level. The lack of demonstrations for example at local conditions demonstrates a lack of understanding what is needed.

IPI 3.3: Average 68%

This represents the average of the IPI 3.3 score for the collaborating clusters: We took the average score for the clusters that you collaborated with: East Africa, Ethiopia, Ethiopia CIS, Ghana, Kenya, Mali, Senegal and Zambia.

Final Comments

- *Implication des partenaire académiques à tous les niveaux de décision sur les curriculas*
  Involvement of academic partners at all levels in decision-making on curricula
- It would be important to look at how AICCRA interfaces with government systems, procedures and processes as this could slow down implementation of project activities

Eastern and Southern Africa

Agriculture remains central to the livelihoods, income, and food security of millions of people in Eastern and Southern Africa (ESA), including women and youth. Recent slowdowns in productivity growth, combined with frequent food production failures, point to the need to significantly increase agricultural production capacity and strengthening the resilience of rural households in the region. Agricultural production in ESA is mainly rain-fed, with pockets of irrigated agriculture, and highly vulnerable to and severely impacted by climate change. The livelihoods of farmers and livestock keepers are being impacted by climate variability and change, posing serious threats to crop and livestock productivity, worsening food insecurity in the region. Many agriculture-dependent households in ESA remain food insecure. This project implements the regional component of AICCRA in ESA and aims to enhance the resilience of agriculture in the face of climate change by supporting: i) Generation and sharing of knowledge and tools to address critical gaps in the provision of agricultural climate services and policies to promote uptake of CSA practices including through South-South learnings; ii) Building partnerships and networks to strengthen the capacity of key regional and national institutions along the research-to-development continuum to anticipate climate effects and accelerate identification, prioritization, and uptake of best-bet adaptive measures; and iii) Initiatives to validate CIS and CSA technologies at scale through collaboration with regional and national organizations, linking validated CIS and CSA packages to transfer systems; and improving farmers' access to climate-informed ag-advisories for decisions on choice of technology and ag-enterprise management under changing climate.

For the 2022 Partner Survey, the survey was sent to 44 partners and all 44 responded.

IPI: 1.3: Average 88%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?
- How **relevant and useful** are the following products/ services in particular for gender / youth responsiveness?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score
Integration of 'Climate Basics, Climate Information Systems and Climate Smart Agriculture' into university curriculum modules Use case in Ethiopia	77% (N=34)	91%	77% (N=34)	82%	80% (N=35)	93%
NextGen (PyCPT 2) Seasonal Forecasting Approach	86% (N=38)	86%	86% (N=38)	82%	91% (N=40)	86%
Strengthening the co-development of NFCS in the Eastern and Southern Africa Region	82% (N=36)	90%	82% (N=36)	87%	89% (N=39)	90%
State of the Climate Report for Africa – a multi-sectoral science policy decision support knowledge product for Africa	77% (N=34)	85%	77% (N=34)	84%	84% (N=37)	89%
Building capacity for CRMA in Eastern and Southern Africa: Use case in Ethiopia	77% (N=34)	89%	75% (N=33)	89%	82% (N=36)	93%
Average		88%		85%		90%
Average	88%					

Comments on satisfaction with usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- Because we are not familiar with NextGen (PyCPT 2) Seasonal Forecasting Approach/Tool
- I wish I could have the opportunity to get these materials or attend the relative workshops.
- Our country participated in PyCPT2 implementation

IPI 2.4: Average 89%

	Effectiveness	
	Respondents	**Score**
Vision: The AICCRA project as our partner is e.g., aligned to my organizational goals	95% (N= 42)	90% (4.5)
Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising	86% (N= 38)	85% (4.3)
Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	82% (N= 36)	90% (4.5)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	84% (N= 37)	91% (4.5)
Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context	95% (N= 42)	88% (4.4)
Average		89% (4.4)

Comments on Effectiveness, or explanations and justifications for rates below 3 :

- AICCRA is a very important institution, and is aligned with the vision, mission and goals of me

organization. I am very satisfied.
- It is crucial to make decisions based on information
- By strengthening our collaboration, we will produce improved weather, climate and advisory services in order to minimize the impact of climate related disasters over the region.
- It helps to improve climate information for Users and more so in Kenya
- My institution is a pioneer in agricultural education and research in Ethiopia and it takes climate variability and change as one important variable affecting agriculture in Ethiopia. Thus, the work of AICCRA align very much with my institution.
- Our country was not sampled exclusively for intended project activities although, it benefited from PyCPT capacity building training
- They stick to their interest rather than local institutions' interests
- This important project is not well introduced in Ethiopian rural communities where the service is valuable; The project is not well introduced within our community and organization

IPI 3.3: Average 66%

29 out of 44 respondents (66%) indicated they have used 1 or more of these products/services.
This includes 27 respondents that indicated "Yes", plus two respondents that indicated "Maybe", but were converted to a "Yes".

Examples include:

Climate Basics, Climate Information Systems and Climate Smart Agriculture curricula

- I used Climate Basics, Climate Information Systems and Climate Smart Agriculture' into university curriculum modules Use case in Ethiopia, State of the Climate Report for Africa – a multi-sectoral science policy decision support knowledge product and climate smart approach in rainfed agriculture in Ethiopia
- Integration of 'Climate Basics, Climate Information Systems and Climate Smart Agriculture' into university curriculum modules Use case in Ethiopia which is given more times in training of ToT
- Integration of 'Climate Basics, Climate Information Systems and Climate Smart Agriculture' into university curriculum modules Use case in Ethiopia
- Integration of 'Climate Basics, Climate Information Systems and Climate Smart Agriculture' into university curriculum modules Use case in Ethiopia**
- We will be discussing with the university officials to incorporate the course in the curriculum.
- I am involved in the development of Climate Smart Agriculture curriculum at Haramaya university and teaching a course called Climate Smart Crop Production

Climate risk management in Agriculture (CRMA)
- I am using Climate risk management in Agriculture (CRMA) products that are ENACT tools of (CDT, Maproom and simagri-ethiopia) datasets and processed information to increase production through early warming, paper publishing and term-paper for our university students. Besides, I am using those tools as practical tools to teach our graduate and undergraduate students.
- Building capacity for CRMA in Eastern and Southern Africa: Use case in Ethiopia
- CRMA
- CRMA, CDT, Maprooms, SIMAGRI and the like during training
- Climate tool (CDT) in this training class
- CDT and Map room

Next Generation Forecast
- Climate prediction center like GFS
- Nextgen in the production of Seasonal Forecast for Kenya
- I have used NextGen (PyCPT 2) Seasonal Forecasting tool to generate a seasonal climate outlook for East Africa.
- NextGen (PyCPT 2) Seasonal Forecasting Approach/Tool
- PyCPT 2 for seasonal review
- PyCPT for my research work validation
- Ethiopian national meteorological agency
- PyCPT, National Framework on Climate Services experience sharing, automation of climate bulletin
- PyCPTv2 in generating seasonal forecast for November, 2022 to January, 2023
- PyCPT 2
- PyCPT 2 for Seasonal Forecasting
- I have used NextGen (PyCPT 2) Seasonal Forecasting Approach/Tool to update OND 2022 seasonal forecast
- NextGen (PyCPT 2) for EMI Seasonal forecast simulation
- For the NFCS, I participated in the workshop and have been reviewing the available documents based on the discussions at workshop. The PyCPT is also be considered for use in the country given that it can improve the products required by the stakeholders in the different climate sensitive sectors

Other
- I have referenced State of the Climate Report data and statistics in policy analytics Research
- Reports from online from your home page

Q16. Final Comments

Positive feedback
- As a trainee, I believe that I attained what I joined. All facilities were smooth.
- First of all, I really appreciate the AICCRA for giving these golden opportunities to me and I'm very happy in a such magnificent workshop that was held in Adama, Ethiopia, starting from Dec.

6-16. On the top of this, me and my organization are very eager to work with AICCRA to make this ToT become real. I am very interested to do more with your organization.

- I look forward to working with AICCRA in the area of climate and crop production.
- We like too much the training, and the content is more reliable for University lecture and others.

Constructive Feedback

- AICCRA should look into high impact weather
- I appreciate your leadership experiences and integrity. Besides, it is best if different advanced statistical packages are included to analyze climate related data rather than using excel application.
- I would like to get one more training on economic aspects and risk management related to climate smart agriculture.
- I wish they started project regarding climate smart approach, weather service to practice with rural farm communities
- If possible, you should work on capacity building for a long run e.g. PhD and postdoctoral .
- It is better to give more time for trainings
- It would be helpful to get news and publications through email
- It would be interesting to get feedback on the regional weather, water and climate services framework
- Time shortage, urgency, lack of clarification when there is a presentation
- Let us conduct a bit research and publish
- More should be done on capacity building programmes like CRMA
- The training is very important for agricultural professionals in Ethiopia. Thus, it is better to incorporate other Ethiopian universities which are not included in this training.
- We need to work closely with your organization. Is there any possibility to design collaborative research projects?

Products/Services Feedback

- PyCPTv2; Unable to generate the seasonal forecast for DJF as the tools was not able to even download observation data
- the module needs to updated as nonprofessional guideline, which mean that in the modality of general user or applications of the concept without detail or specific as professionality
- The TOT on climate smart agriculture is very crucial and I thank you for that but the time for the training is not as such enough.

- We need more help in our institution especially in Ocean Climate monitoring and enhancing more capacity in Both Seasonal and Sub seasonal forecasts.
- Why did the Economics part of the module not include adequate data for analysis?
- Working on the Technical capacity building will need further plan and engagement

West Africa

This cluster aims to enhance the capacity of regional public institutions (e.g., AGRHYMET- CORAF-RUFORUM-WASCAL) and private firms (e.g., input providers, ICT companies, media) to develop delivery models for climate services and for CSA knowledge, approaches and tools to support effective intra-regional and south-south adoption in various value chains. It will also generate training products and set up agritech innovation platforms for sustained regional promotion of climate services and climate-smart agriculture. The cluster will also support countries to achieve their expected outcomes.

The cluster implementation has been going smoothly since Feb 2021, especially through numerous interactions with regional partners organizations such as CORAF and AGRHYMET in order to plan/prioritize AICCRA activities for regional spillover effect and south-south learnings. Two training sessions to capacitate AGRHYMET experts and representatives from AICCRA and non-AICCRA anchored countries on the use of next generation seasonal forecasts tools, were organized. Twenty-two participants received and responded to the survey.

IPI: 1.3: Average 82%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?
- How **relevant and useful** are the following products/ services in particular for gender / youth responsiveness?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	**Satisfaction Score**	**Respondents**	**Satisfaction Score**	**Respondents**	**Satisfaction Score**
NextGen (PyCPT 2) Seasonal Forecasting Approach/Tool	95% (N= 21)	84%	100% (N= 22)	78%	100% (N= 22)	83%
Average		84%		78%		83%
Average	82%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- *C'est une opportunité pour renforcer les capacités des femmes, des jeunes et des personnes marginalisées*
  It is an opportunity to empower women, youth and marginalised people
- *J'ai just suivi une formation sur PyCPT2 , mais je l'ai pas' encore utilisée car elle ne permet pas la production des prévision hydrologique*
  I have just been trained on PyCPT2 , but I have not used it yet as it does not allow for the production of hydrological forecasts
- *Les produits sont très utilisés dans la mesure où on les peut vérifier les prévisions sur un domaines précis ou peuvent guider à évaluer l'influence des producteurs sur le domaine.*
  The products are widely used in that they can verify forecasts for a specific area or can guide the assessment of producers' influence on the area.
- *PYCPT a permis à la région d'impulser une nouvelle dynamique en matière de prévision saisonnière en Afrique de l'Ouest et donc de mettre cela à profit pour renforcer la prise en compte du genre dans le process*
  PYCPT has enabled the region to create a new dynamic in seasonal forecasting in West Africa and thus to build on this to strengthen gender mainstreaming in the process
- *Pertinent pour les activités de maraîchage pratiquées majoritairement par les femmes et les jeunes*
  Relevant for market gardening activities practiced mainly by women and youth
- *La prise en compte du genre laisse à désirer*
  Gender mainstreaming is weak
- *Pouvoir utiliser les données stations, les données ENACTS, faire aussi la prévision hydrologique avec PyCPT2*
  To be able to use station data, ENACTS data, and also make hydrological forecasts with PyCPT2
- *Ces produits amènent un plus pour la prévision locale. Ils peuvent aider à produire de l'information climatique pour les communautés rurales.*
  These products are a plus for local forecasting. They can help to produce climate information for rural communities.
- *très pertinent et utile*
  very relevant and useful
- *importance de la mesure où la jeunesse constitue une frange importante de la population agricole*
  important as youth are a large part of the farming population
- *renforcement des capacités des femmes scientifiques [*capacity building for women scientists]

IPI 2.4: Average 83%

	Effectiveness	
	Respondents	**Score**
Vision: The AICCRA project as our partner is e.g. aligned to my organizational goals	100% (N= 22)	88% (4.4)
Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising	95% (N= 21)	84% (4.2)
Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	91% (N= 20)	81% (4.1)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	91% (N= 20)	79% (4.0)
Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context	91% (N= 20)	85% (4.3)
Average		83% (4.2)

Comments on Effectiveness, or explanations and justifications for rates below 3:
- *J'ai pas beaucoup bénéficié des formations de ce projet juste la formation sur Nexgen*
  I have not benefited much from the trainings of this project just the training on Nexgen
- *Mon organisme n'est pas un partenaire de mise en œuvre du projet. Il est difficile d'évaluer ce projet AICCRA*
  My organization is not an implementing partner of the project. It is difficult to evaluate this AICCRA project
- *AICCRA appui notre service à atteindre les objectifs et à relever multiple défis*
  AICCRA is supporting our department to achieve the objectives and meet multiple challenges

IPI 3.3: Average 86%

19 out of 22 (86%) respondents indicated they have used 1 or more of these products/services.

This includes 17 respondents that indicated "Yes", plus two respondents that indicated "Maybe", but were converted to a "Yes".

Examples include:
- *Utilisation des produits de PYCPT pour vérifier les prévisions saisonnières*
  Use of PYCPT products to verify seasonal forecasts
- *Utilisation de PyCPT dans le cadre de PRESASS et PRESAGG, prise en compte du genre dans le choix des participants aux ateliers de formation*
  Use of PyCPT in PRESASS and PRESAGG, taking into account gender in the selection of participants in training workshops
- *Dans le cadre de l'appui aux pays, nous avons utilisé les produits et outils pour contribuer à développer des services sur les prévisions saisonnières.*
  Within the framework of the support to the countries, we used the products and tools to contribute to the development of services on seasonal forecasts.
- *Dans le cadre de la prévision saisonnière climatique*
  Within the framework of seasonal climate forecasting
- *Utilisation dans le cadre des produits du CCR-AOS*
  Use in the framework of JRC-AOS products
- *Prévisions saisonnière des précipitations et températures*
  Seasonal precipitation and temperature forecasts
- *prévision saisonnière*
  Seasonal forecast
- *Afin d'élaborer la prévision saisonnière des cumuls de l'année dernière c'est l'outil Nexgen1 qui a été utilisé*
  The Nexgen1 tool was used to develop the seasonal forecast of last year's accumulations
- *Informer les producteurs. Bulletins climatiques. Prise de décision*
  Informing producers. Climate bulletins. Decision making
- *Prévision saisonnière et Prévision intrasaisonnière*
  Seasonal forecast and Intraseasonal forecast
- *Ces produits ont été utilisé dans le cadre de la prévision saisonnière*
  These products were used for seasonal forecasting
- *Pendant les périodes de prévisions saisonnière de notre pays*
  During the seasonal forecast periods of our country
- *Nous avons utilisé PcCPT2 pour l'élaboration des prévisions saisonnières au Burkina Faso.*
  We used PcCPT2 for the elaboration of seasonal forecasts in Burkina Faso.
- *fourniture de la prévision à la population paysanne de mon pays en ce qui concerne l'information flexible*
  to provide the farmer population of my country with flexible forecast information
- *les prévisions météorologiques [*weather forecasts]

- NextGen (PyCPT 2) for seasonal outlook
- I used it to generate seasonal forecast simulation for Gjana
- NextGen (PyCPT 2) approach for seasonal forecasting

Final Comments:

- *Je suggère l'extension du projet à d'autres pays (Tchad, Guinée, Gambie, Cap Vert)*
  I suggest extending the project to other countries (Chad, Guinea, Gambia, Cape Verde)
- *AICCRA présente une opportunité excellente de collaboration et de partenariat, de renforcement des capacités d'AGRHYMET. Toutefois, il convient de noter des difficultés sur le plan gestion financière avec beaucoup de retard dans la mise à disposition des fonds, et cela retarde l'exécution des activités*
  AICCRA presents an excellent opportunity for collaboration and partnership, and for strengthening the capacities of AGRHYMET. However, it should be noted that there are difficulties in the financial management plan, with many delays in the availability of funds, and this delays the execution of activities
- *Poursuivre l'amélioration du PyCPT pour prendre en compte les données de stations. Plus, de renforcement de capacité sur Python et PyCPT*
  Continue to improve PyCPT to take into account station data. More capacity building on Python and PyCPT
- *ma question est comment utiliser nos données observées sur le terrain dans PyCPT. Et aussi comment faire des prévisions à pas de temps mensuel*
  my question is how to use our field observed data in PyCPT. And also, how to make monthly time step forecasts
- *PyCPT2 fait seulement la prévision des précipitations. Veuillez intégrer dans le code la possibilité de prévoir les températures comme avec PyCPT.*
  PyCPT2 only does precipitation forecast. Please integrate in the code the ability to forecast temperatures as with PyCPT.

Ethiopia

Agriculture remains central to the livelihoods of millions of people in Ethiopia including women and youth, yet many agriculture-dependent households remain food insecure. Recent slowdowns in productivity growth, combined with frequent food shortages underscore the need to significantly increase agricultural production capacity and strengthen the resilience of rural households. The livelihoods of Ethiopia's farmers and livestock keepers, long known to be vulnerable to extreme weather, are being impacted by climate variability and change, posing a serious threat to food security. AICCRA's Ethiopia project aims to enhance productivity and resilience of Ethiopia's agriculture in the face of climate change through i) Development of ag-data hubs, visualization tools, EWS, CIS, climate-informed agro-advisories, DSTs, and dissemination systems; ii) Integrating these risk reduction measures into the national e-extension systems to strengthen and enhance its reach to under-served groups including women; iii) Strengthen the capacity of NMS to deliver NextGen sub-seasonal and seasonal weather forecasts; iv) Build capacity of public and private sector to deliver EWS, CIS and ag-advisories to end-users; v) Strengthen NFCS and building Ethiopia's capacity for effective streamlining of CIS and ag-advisory, implementation and governance; (vi) Development of contextualized climate-smart and gender-responsive CSA packages for priority value chains through participatory engagement with researchers, policymakers and farmers; designing CSA scaling frameworks and identifying effective best-bet CSA options for wider adoption, implementation and impact at scale. The project will be implemented in partnership with sub-national, national, regional, and international partners in crop and livestock value chains in the highlands and dry lowlands of Ethiopia.

The survey was sent to 84 people and there were 61 respondents.

IPI: 1.3: Average 80%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services <u>in particular for gender/ youth responsiveness</u>?
- How **relevant and useful** are the following products/ services <u>in particular for gender / youth responsiveness</u>?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	**Satisfaction Score**	**Respondents**	**Satisfaction Score**	**Respondents**	**Satisfaction Score**
Smart Packs for small ruminant value chains	69% (N= 42)	89%	69% (N= 42)	84%	72% (N= 44)	88%
Bundled CSA practices for rehabilitation of degraded landscapes	56% (N= 33)	78%	56% (N= 34)	75%	56% (N= 34)	81%
Bundled CSA technologies and practices for forage and feeds value chains	64% (N= 39)	79%	62% (N= 38)	76%	67% (N= 41)	80%
Bundled CIS and ag-advisory generated from EDACaP along with mechanization, inputs and credit for wheat value chain	51% (N= 31)	78%	51% (N= 31)	75%	52% (N= 32)	79%
Enhanced seasonal and sub-seasonal forecasts (CIS) for agriculture and DRM	56% (N= 34)	84%	56% (N= 34)	84%	61% (N= 37)	82%
Automatic Weather Station Data Tool (ADT) installation & training	48% (N= 29)	79%	44% (N= 27)	79%	52% (N= 32)	78%
Climate Data Tool (advanced training)	52% (N= 32)	79%	54% (N= 33)	77%	59% (N= 36)	79%
Climate Risk Management in Agricultural Extension Curriculum (CRMAE)	59% (N= 36)	79%	56% (N= 34)	78%	61% (N= 37)	83%
Agricultural Stress Index System (ASIS) - rebranded as NextGen Agricultural Drought Monitoring and Warning System (NADMWS)	59% (N= 36)	78%	57% (N= 35)	77%	59% (N= 36)	83%
SIMAGRI Decision Support Tool	59% (N= 36)	72%	57% (N= 35)	74%	62% (N= 38)	78%
Average		80%		78%		81%
Average	80%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- Need implementation around our areas for the sustainability
- I think that if you use more than two language for this questionnaire, I think you will success specially all country language
- Those products/services are not within the area of my expertise and sector I work for, except CDT, possibly.
- Good to refrain
- Very interesting
- Maybe I don't have the exposure for the products
- I am not used the product and service
- AICCRA supports by providing improved climate smart forage and quality animals(sheep breed)
- The survey did not include the genetic improvement of indigenous sheep.
- Not rated products/services are not provided in our area
- others are not implemented in our area, so it is difficult to say something for remaining topics
- All most of all the service was not implemented or applied at a minimum level and it requires belligerent work on it
- Might be relevant. But not yet implemented.
- EDACaP is not at full operation right now. I am in EIAR Climate and geospatial research directorate. We discuss about it more. especially when the crop file is not found. The tool is very useful. We are ready to use the tool for advisory services.
- Smart pack for small ruminants
- At all agricultural system is back ward agricultural system so it is important to enhance climate agricultural system for the feature

IPI 2.4: Average 86%

	Effectiveness	
	Respondents	**Satisfaction Score**
Vision: The AICCRA project as our partner is e.g., aligned to my organizational goals	93% (N=57)	90% (4.5)
Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising	92% (N= 56)	85% (4.2)
Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	92% (N= 56)	86% (4.3)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	93% (N= 57)	86% (4.3)
Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context	93% (N= 57)	87% (4.4)
Average		87% (4.3)

Comments on Effectiveness, or explanations and justifications for rates below 3:
- Communicates/ disseminates information; open access of information
- We have no formal collaboration and sign agreement.
- Because this project was not working together with our institute .
- AICCRA Project is innovative project especially for implementing smart pack in our area, especially for women and youth group
- As I know AICCRA project have a lot of work and useful capacity building programs, but AICCRA project participation is less in my organization. in my opinion if the project considers EDRMCE as one of the organization that can get supports from the project will be appreciated. it was

supportive trainings that AICCRA project were gives before as I am Climate and weather expert it is helpful for my work, but I didn't get it. so, in general the project works a lot, but less works with my Organization, I will hope for the future to have a good relation with us.
- I suggest that AICCRA project is making progress on the capacity building so you should keep it up on that
- No feedback on the results of the activities done to make additional measurements.

IPI 3.3: Average 75%

46 out of 61 respondents (75%) indicated they have used 1 or more of these products/services.

Examples include:

Smart Packs for small ruminant value chains
- Smart packs for small ruminant value chain
- small packs for small ruminant VC
- Improved goats disseminated in climate affected areas like Konso since goats adapt such environment
- We have implemented Smart pack for small ruminant's value chain in our Community Based Breeding Program sites.
- For strategic planning of agricultural activities
- Improved genetics and improved forages
- Smart Packs for small ruminant value chains in Bonga site
- I used smart packs for Menz sheep community based genetic improvement programme in Amhara region Ethiopia
- Smart packs for small ruminant's value chain. Animal health, breeding and feed packages. Training of women farmers
- Smart pack for small ruminants
- we implemented smart pack innovations for women and youth groups with collaboration stakeholders, such as training, health, breeding, feed related activities
- climate smart small ruminant/sheep production and breeding
- Smart Packs for small ruminant value chains in Bonga Agricultural Research Center
- In our small ruminant community-based breeding programs (CBBP) and in our integrated dairy action research programs.
- Smart pack in small ruminant value chains in Southern Ethiopia

Climate Data Tool (advanced training)
- Climate data tool
- Climate data

Climate Risk Management in Agricultural Extension Curriculum (CRMAE)

- Climate risk surveillance, in our on-farm research location
- Climate Risk Management in Agricultural Extension, I use the Oromia region from region to woreda level to mitigate climate related risk. (Rainfall assessment, Dry spell, wet spell, drought, onset, cessation etc) from Map room
- maproom
- Climate Risk Management in Agricultural Extension Curriculum (CRMAE)
- Map room, climate advisory service

Bundled CSA practices for rehabilitation of degraded landscapes

- I have studied the impacts of integrated land management interventions on landscape rehabilitation in one micro watershed
- To identify severity of droughts and areas often affected by droughts across Ethiopia

Bundled CSA technologies and practices for forage and feeds value chains

- Bundled CSA technologies and practices for forage and feeds value chains ,we made many farmers to plant improved forage for feed and land rehabilitation made many farmers to get a good out pt
- I used the "Bundled CSA practices for rehabilitation of degraded landscapes" to teach students

Enhanced seasonal and sub-seasonal forecasts (CIS) for agriculture and DRM

- seasonal forecast
- Weather forecast
- Seasonal weather forecasting services released by National Meteorological Institute (NMI) customizing with regional meteorology stationed in Central and Eastern Oromia (Adama). The advisories produced during the year 2021 are disseminated to smallholder farmers for making livelihood decisions.

Automatic Weather Station Data Tool (ADT) installation & training

- ADT and weather forecast

Agricultural Stress Index System (ASIS) - rebranded as NextGen Agricultural Drought Monitoring and Warning System (NADMWS)

- Agricultural Stress Index System (ASIS) - rebranded as NextGen Agricultural Drought Monitoring and Warning System. I used ASIS,I also participate at Agricultural Drought Monitoring System Country-level ASIS User Training Workshop

Bundled CIS and ag-advisory generated from EDACaP along with mechanization, inputs and credit for wheat value chain

- I took capacity building on EDACaP

SIMAGRI Decision Support Tool

- I used simagri to show the w of crop modeling for University Lecturers.

Multiple Services

- Smart Packs for small ruminant value chains, Bundled CSA technologies and practices for forage and feeds value chains
- Forage plantation for small ruminant feed and degraded landscapes rehabilitation
- Smart Packs for small ruminant value chains and Bundled CSA technologies and practices for forage and feeds value chains products
- Smartpack small ruminant value chain and feed and forage value chain
- CDT seasonal forecast; weather data generation, SIMAGRI Decision Support Tool for agricultural decision making;
- CDT, ADT, and Seasonal and subseasonal
- NextGen seasonal forecasting PyCPT products
- Climate Data Tool and Automatic Weather Station Data tool
- Menz mama(value chain in small ruminants); improved feed

Other/Where they used 1 or more of these products/services

- For Training and simple analysis
- I have already received ToT on the aforementioned tools. I do hope to organize and offer training soon to staff and graduate students back in my university
- I was the coordinator of an integrated herd health program at Menz site.
  We use the model to reduce the effect of internal parasites. I also involved in the development of vaccination and calendar
- Doyogena
- student advice
- Doyogena District
- for educational and research purpose

Final Comments:

Positive Feedback

- Keep your support and hard work
- AICCRA with ICARDA provides excellent innovation in the areas and results significant contribution for climate smart agriculture and for livelihood of poor smallholder farmers
- I am happy, if works other components with us, we are very satisfied with Smart Packs for small ruminant value chains
- Should continue.
- Keep hard working for the community
- I am working with AICCRA . I was assigned to collect experimental data for DSSAT model input. I already collected 6 varieties of tef crops over three locations. I will report the data soon. I hope the experiment will continue next season. The full operation of EDACaP is pillar issue
- The objective of the AICCRA project is very interesting. That means to strengthen what we have is to improve our product and satisfy our user.
- Continue with your support

Constructive Feedback

- The AICCRA project has been one of the efficient partners we have. We would like to work together in the future in more climate smart agricultural technology adaptation in the community. This effort in using climate smart technologies in Africa needs to be expanded to overcome the effect of the change of climate. This project needs to expand its involvement and partnership with stakeholders and develop a task for longer periods to make a substantial impact.
- I am proudly happy if AICCRA intervene additional services
- I am very happy, if AICCRA works in all or some part components with us like Smart Pack small ruminant value chain
- It is good when you open office in woreda or zonal level
- we are happy if AICCRA project incorporate other Smart pack related activities in our area
- I know AICCRA done a lot of things on climate information, but still, it need attention to improve climate information service. Because lack of awareness and implementation at the local level.
- strengthening institutional engagement
- The project work in large ruminant specialization with objective of climate smart agriculture
- Updating information to all partners through emails may increase information dissemination as everyone checks email.
- More developed tools for research and education are required. I hope improvements will be made to some of the tools used in training

Requests/Questions

- Q1. if possible, wide your location/additional location/ Q2. Additional training on climate change
- Konso is around rift valley affecting by recurrent droughts so that needs feed and health interventions in line with climate data accesses.
- What use of this work for our country ? Where can your organization be found ? What is your special goal ?
- Expand the products/services to advance applications in the health sector as climate change is exacerbating the already existing infectious diseases and health conditions.
- The project should have to work with such an institute very closely
- The current project is on a small scale and needs to expand the scale to involve more in climate smart innovation in Africa.
- we need a lot to work with AICCRA project. I need to know the detail of AICCRA project. to understand more., and how I can participate in capacity building training.
- It would be a good idea if you regularly share your service products to interested organization and also thinking of organizing technical trainings on selected products
- we are eager to work with AICCRA, so please strengthen your partnership with my organization

- AICCRA should consider formal partnership with civil society organizations like Red Crosses in Ethiopia, in that case it can contribute on supporting humanitarian assistance due to Natural hazard monitoring and response
- FEWSNET is a global NGO funded by USAID. Its duty focusses on monitoring and providing evidence-based Food Security Outlook for the countries primarily hotspot to climate -related hazards and other socio-economic drivers. My role as Field Scientist for Eastern Africa is mainly looking and monitoring local, regional and global agro climatic and hydrological as well as other environmental drivers in order to provide timely, reliable real-time and future forecasts. This information is being used by FEWSNET to prepare Food Security Outlook as long as two seasons lead time. I would therefore be very much interested in your works and value your products for future use in the Science Team I am working with.
- Yes to improve or upgrade small ruminants product like meat ,to birth twin, and to get good body conformation Please introduce new technology .tank you
- AICCRA as a partner is contributing a lot for scaling up of smart packs, so it is a timely and strong partner for us. We would like to request widening its support (technical and financial) as we have an ambitious scaling program.
- Good but not participated with other livestock project

Ethiopia CIS

The survey was sent to 7 people and there were 4 respondents.

IPI: 1.3: Average 84%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services <u>in particular for gender/ youth responsiveness</u>?
- How **relevant and useful** are the following products/ services <u>in particular for gender / youth responsiveness</u>?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score
Automatic Weather Station Data Tool (ADT) installation & training	50% (N= 2)	100%	50% (N= 2)	80%	50% (N= 2)	80%
Climate Data Tool (advanced training)	50% (N= 2)	100%	50% (N= 2)	80%	50% (N= 2)	80%
Climate Risk Management in Agricultural Extension Curriculum (CRMAE)	75% (N= 3)	87%	75% (N= 3)	73%	75% (N= 3)	80%
Agricultural Stress Index System (ASIS) - rebranded as NextGen Agricultural Drought Monitoring and Warning System (NADMWS)	50% (N= 2)	90%	50% (N= 2)	80%	50% (N= 2)	80%
Average		94%		78%		80%
Average	84%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:
None

IPI 2.4: Average 81%

	Effectiveness	
	Respondents	**Satisfaction Score**
Vision: The AICCRA project as our partner is e.g. aligned to my organizational goals	100% (N= 4)	95% (4.8)
Leadership: The AICCRA project as our partner e.g. takes leadership and is engaged; actively participates; participates in additional fundraising	100% (N= 4)	70% (3.5)
Accountability: The AICCRA project as our partner e.g. reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	100% (N= 4)	75% (3.8)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	100% (N= 4)	80% (4.0)
Impact: The AICCRA project as our partner e.g. is involved in local context; policy making; scaling innovations; capacity building in local context	75% (N= 3)	87% (4.3)
Average		81% (4.1)

Comments on Effectiveness, or explanations and justifications for rates below 3:
None

IPI 3.3: Average 25%

1 out of 4 respondents (25%) indicated they have used 1 or more of these products/services.

Though this individual responded "Maybe", their comment converted their reply to a "Yes".

Examples include:

- Climate data tool

Final Comments:
None

Ethiopia CSA

The survey was sent to 37 people and there were 27 respondents.

IPI: 1.3: Average 84%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?
- How **relevant and useful** are the following products/ services in particular for gender / youth responsiveness?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score
Bundled CSA practices for rehabilitation of degraded landscapes	85% (N= 23)	87%	89% (N= 24)	81%	85% (N= 23)	85%
Bundled CSA technologies and practices for forage and feeds value chains	85% (N= 23)	83%	85% (N= 23)	85%	85% (N= 23)	87%
Bundled CIS and ag-advisory generated from EDACaP along with mechanization, inputs and credit for wheat value chain	56% (N= 15)	81%	59% (N= 16)	78%	63% (N= 17)	86%
Average		84%		81%		86%
Average	84%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- We haven't practiced mechanization
- Bundled CSA Forage & feeds Technology practices very useful for us
- Training on new forage technology for expats and at kebeles level for selected farmers continues minimum three times in the year for example. 1. On new technology for the first 2 sowing time and wedding 3. Harvesting time
- Very useful BundledCSA Technology & practices for forage & feeds value chains good
- The improvement methods may be done by the animal development office I'm not direct relationship with it
- Misha wereda (Buma and Morsito farmer association)

IPI 2.4: Average 85%

	Effectiveness	
	Respondents	**Satisfaction Score**
Vision: The AICCRA project as our partner is e.g. aligned to my organizational goals	100% (N= 27)	89% (4.4)
Leadership: The AICCRA project as our partner e.g. takes leadership and is engaged; actively participates; participates in additional fundraising	96% (N= 26)	84% (4.2)
Accountability: The AICCRA project as our partner e.g. reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	96% (N= 26)	82% (4.1)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	100% (N= 27)	83% (4.1)
Impact: The AICCRA project as our partner e.g. is involved in local context; policy making; scaling innovations; capacity building in local context	100% (N= 27)	84% (4.2)
Average		84% (4.2)

Comments on Effectiveness, or explanations and justifications for rates below 3:

- If continuous working AICCRA project is Excellent
- On scaling, capacity building, seed production and etc
- Scaling innovations capacity building in local contexts
- As our organization (Inter Aide France) has a good model of CSA, it needs additional funds to scale out the activities in other parts of the country and many visits from AICCRA and others visited the area but no documentation was done. So it needs more collaboration in the future
- The dissemination information and fund is low

IPI 3.3: Average 67%

18 out of 27 respondents (67%) indicated they have used 1 or more of these products/services.

This includes 17 respondents that indicated "Yes", plus one respondent that indicated "Maybe", which was converted to a "Yes".

Examples include:

Bundled CSA practices for rehabilitation of degraded landscapes

- Agro Advisory service EDACaP
- Compost, intercropping; mulching
- CSA practices for degraded lands
- Bundled CSA practices for rehabilitation of degraded landscapes
- CCAF MOT carbon accounting tool

Bundled CSA technologies and practices for forage and feeds value chains

- First, experts from three selected woredas (Sinana, Goba & Agarfa)and Bale zone trained (TOT). The trained experts provided training for experts and DAs at zonal level. Then, more than 430 farmers, DAs and experts trained at kebele level. The training consisted of practical, theoretical and field visits. It was engaging and successful. From then onwards, farmers, DAs and experts were motivated and tangible changes has been seen on the ground.
- Soil and water conservation practice in the micro watershed level

Bundled CIS and ag-advisory generated from EDACaP along with mechanization, inputs and credit for wheat value chain

- Technologies & practices for forage & feed value chains
- Ag-advisory for the planning
- In Ethiopia southern part sharing experience through exposure visit

Multiple products/services

- CSA Bundling workshop and prioritizing

- For our research and scaling woredas such as lemo, misha, analemo.
- CSA practices for rehabilitation of degraded landscapes, CSA technologies and practices for forage and feeds value chains

Other/Capacity Building/Where they used 1 or more of these products/services

- I used it in the NGO that I am working for
- 450 HH, DA and experts were trained
- We selected farmers from two kebeles from each kebeles 175 HHs , three DAs and woreda experts.
- More than 150 Farmer HHs/DAs &Expert trained
- in research works
- Morsito g.manner, Burma kebeles in misha woreda

Final Comments:

Positive Feedback

- Good advice for farmers
- As I know AICCRA is a project, while it is working as a big institution with high impact on CSA practices and capacity building. The teams are well organized and easy to work with, I am happy collaborating and working with them.
- This projects continuously worked happy
- This project has brought great benefits to our farmers especially in solving the fodder problem
- First of all, I would like to thank you for choosing me as a priority. Subsequently, I have worked with many projects in the ILRI program for a long time. That's why I answered the questionnaire well. I am ready to fill in any such questions in the future.
- AICCRA is the most relevant stakeholder for SLMP/RLLP Program

Constructive Feedback

- To ensure the Goal must be communicate weekly or monthly is better
- If projects developed (CSA targeted) working with local communities in close follow up by capacitating them it will be sustainable and helps in mitigating climate change shocks and helps people to evacuate from vulnerability status
- The AICCRA Project strength more collaboration with climate change coordination team in MoA for all information
- CCAF-MOT is a good and useful tool to estimate the net greenhouse gas emission at household level and beyond. However, some of the parameters are not customized in the Ethiopian context. The climate option for example is non set in our context. Moreover, some land use (e.g. Enset) can contribute a lot and could be an option for mitigation. So, it is paramount important, if the project contributes to evaluating such land use as a mitigation option.

Ghana

The Ghana Cluster is led by IITA and focus on bridging the gap between the research institutes that produce improved technologies and the development organizations that promote the adoption of improved technologies including digital climate advisories, for the purpose of enhancing the resilience of the country's agriculture and food systems in the face of climate change while improving livelihoods of hundred thousand farmers.

In 2022, stakeholder consultation series were organized and yielded a Memorandum of Understanding signed between AICCRA-Ghana/IITA and CSIR/INSTI to host the ag-data hub at CSIR/INSTI. CSIR/INSTI is the mandate organization in Ghana for data management. It has acquired mega servers purchased by the government to help CSIR/INSTI playing it's leadership role in big data management in Ghana. AICCRA will leverage on the efforts and make the ag-data hub available to be hosted and operated by CSIR/INSTI. A beta version of Ghana ag-data hub is developed and accessible online.

New AICCRA partners and stakeholders were capacitated and accessed seasonal forecasts, pest advisories (CIS), and Smart Maize Seeds, Dual-purpose Cowpea Seeds, Aeroponics Genetred Seed Yam (CSA). The partners include CSIR-ARI, CSIR-SARI, UCC, BNARI, UG, KNUST. 256,981 beneficiaries were also reached with the same CSA and CIS (Pest advisories, daily, weekly and seasonal forecasts, dry spells) through ESOKO platform. From the total number of beneficiaries accessing CSA/CIS 32.7% were women and 12% were youth.

There were 44 total respondents for the Ghana survey.

IPI: 1.3: Average 81%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?
- How **relevant and useful** are the following products/ services in particular for gender / youth responsiveness?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score
AgDataHub	39% (N= 17)	79%	41% (N= 18)	70%	41% (N= 18)	83%
Digital Agro-Climate Advisories (DACA)	82% (N= 36)	92%	80% (N= 35)	90%	80% (N= 35)	91%
Smart Maize Seeds	73% (N= 32)	93%	73% (N= 32)	94%	75% (N= 33)	95%
Dual-purpose Cowpea Seeds	66% (N= 29)	89%	66% (N= 29)	88%	70% (N= 31)	92%
Aeroponics Generated Seed Yam	39% (N= 17)	82%	41% (N= 18)	77%	50% (N= 22)	77%
Climate Data Tool (CDT) Training for the Ghana Meteorological Agency (GMet)	75% (N= 33)	82%	77% (N= 34)	76%	80% (N= 35)	77%
Automatic Weather Station Data Tool (ADT) installation & training for Ghana Meteorological Agency (GMet)	55% (N= 24)	69%	64% (N= 28)	71%	75% (N= 33)	73%
Data Library Maintenance and Maproom Development Training with Ghana Meteorological Department (GMet)**	64% (N=28)	69%	68% (N=30)	68%	68% (N= 30)	73%
Average		82%		79%		83%
Average	81%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- The rating below 3 help bundle to improved the success of the project through the capacity building we had and demonstration on field which showed real results on the field for the farmers to see and learn.
- No automatic weather station
- AgDataHub is new to me and Data Tool (ADT) installation has not been possible in the district
- much is not known about AgDataHub and Automatic Weather Station Data Tool (ADT) installation cannot be found in my district
- AgDataHub is new to me
- NO Automatic Weather Station Data Tool (ADT) has been installed in the district
- Automatic Weather Station Data Tool (ADT) installation has not been possible in my district
- Not Applicable, I did not took part or use some of the products/services
- DACA training was useful
- I need more trainings on with Gmet
- Not part of the training
- Let the work environment be attractive to the professionals and the youth by providing the needed equipment. Although, training was given but doing it regular or practicing what you have learned is the best way to have knowledge than to remember what someone has done. You just rashly pushed the things on the workers and simply say I have trained them.
- This services have helped both AEA and farmer to plan for the season and also gain more knowledge on the CSA and CIS in our trainings we had.
- Ghana's focus is not on aeroponics
- I did not understand how they can influence gender acceptability. Generally, I did not see the linkage between them and gender. Maybe I did not understand the question well
- Farmers take advantage of this in planning their act
- The concept is not well understood

IPI 2.4: Average 90%

	Effectiveness	
	Respondents	**Score**
Vision: The AICCRA project as our partner is e.g. aligned to my organizational goals	98% (N= 43)	97% (4.8)
Leadership: The AICCRA project as our partner e.g. takes leadership and is engaged; actively participates; participates in additional fundraising	86% (N= 38)	87% (4.3)
Accountability: The AICCRA project as our partner e.g. reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	89% (N= 39)	86% (4.3)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	95% (N= 42)	88% (4.4)
Impact: The AICCRA project as our partner e.g. is involved in local context; policy making; scaling innovations; capacity building in local context	100% (N= 44)	90% (4.5)
Average		90% (4.5)

Comments on Effectiveness, or explanations and justifications for rates below 3:

- Everything under AICCRA was on point and I would like to work with them anytime anyway. Ayekoo.
- AICCRA had been an eye opener for me as an AEA to teach farmers on CSA, DACA and CIS and rest
- Funds were not spent on time
- My organization and the entire region benefit and appreciate the work being done.

IPI 3.3: Average 91%

40 out of 44 respondents (91%) indicated they have used 1 or more of these products/services. This includes 39 respondents that indicated "Yes' ', plus one respondent that indicated "Maybe" but was confirmed to have used a service of AICCRA.

Examples include:

Digital Agro-Climate Advisories (DACA)
- DACA, climate seed smart, capacity building with Met.on how to plan a seasonal calendar for the farmers. DACA was use to sensitized the farmers and seed smart shown a result on the demonstration field at Dompoase in KEEA.
- Digital Agro-Climate Advisories (DACA) app could be used to predict onset of rain, cessation of rain and whether update
- DACA APP was used in my field of work as an Extension Officer to conduct technical trainings on climate smart agricultural technologies and advisories.
- Daca has been very helpful because I do ask DACA what the weather is at my operational area even though I am not there
- Used DACA for ToT in AICCRA Communities in Ghana
- Used DACA
- Use DACA for planning and decision making
- Taught farmers the use of DACA
- I used the DACA app to predict the onset of the rainfall for the upcoming cropping season. I also used some of the improved maize seed varieties and cropping seasonal calendar to train smallholder farmers in Dompoase in the Komenda Edina Eguafo Abrem Municipality in the Central of Ghana.
- DACA
- DACA, Help to know the probability of onset of rainfall and cessation
- Used smart maize seeds, aeroponics generated seed yam and dual purpose cowpea in several communities across the various agro ecological zones and came out that these technologies were superior to all local/ farmer known practices l and technologies. Again DACA tool was used to conveniently show farmers how climate information can help plan, select and guide the use of the various technologies used.

Climate Data Tool (CDT)
- CDT help us to know weather information and prepare ourselves for the coming season. DACA also helps to get your area weather Information to predict the area forecast
- Used the CDT in my office
- I have used the ADT and CDT for climate data analysis

Automatic Weather Station Data Tool (ADT)
- Automatic Weather Station Data Tool (ADT) Installation and Training for Ghana Meteorological Agency
- ADT used most of the time to download data upon request. Very flexible to work with.
- Smart maize seeds and Dual purpose cowpea seed

- The Performance Of The Dual-Purpose Cowpea Seeds On The Field Demonstration Was Very Much Encouraging

AgData Hub

- Agdata hub for accessing data

Smart Maize Seeds

- smart maize seeds performed very well in the field demonstration and farmers appreciated the initiative
- The smart maize seeds were good
- Smart maize seeds and dual cowpea seeds
- The maize used for demonstration at Dompoase
- Dual purpose cowpea varieties, Smart maize seed
- Smart maize seeds e.g. Wang-data, Abontem have been used in my AICCRA intervention areas in Lawra in the Upper West Region as part of my field demonstrations.
- Climate smart seed and drought resistance varieties
- Smart seeds was used in setting up pilots
- Used the smart maize/dual purpose cowpea and seed yam products with farmers at Techiman North, Kintampo South and Kintampo North Districts with farmers.
- Smart maize seeds were used for further demonstrations in communities that it was not introduced earlier. Farmers were very impressed with the smart seeds and were willing to adopt them.
- The aeroponic seed ls were used in the establishment of yam setts demonstrations at agyegyemakunu and adiembra . Again climate smart maize seeds have been use in the demonstrations as well as farmers field
- field demonstrations have been conducted on the smart maize seeds in my district. The yields of these seeds were highly appreciated by beneficiary farmers.

Dual-purpose Cowpea Seeds

- Dual-purpose Cowpea Seeds have performed very well in the field demonstration
- Dual purpose cowpea and smart maize. I conducted a demonstration using these varieties in the Yizeigu community

Weather-related Tools

- CIS for example enables us to know the timing of rain, amount of rain, duration of rain etc. These help to choose the right crops to grow in the year.
- In my thesis, I used the climate data to analyse my precipitation and temperature data
- To produce products for the stakeholder
- Created ma plots for rainfall and temperature date
- Daily data analysis specifically compilation of data and generating analysis for weekly weather plots i.e. rainfall, temperature, relative humidity
- I have trained my farmers on how to interpret weather information and how to get the water crop requirement for production
- Ghana Meteorological Department continues to update us on the weather by way of timely daily Forecast which is helping Agriculture production
- Daily weather forecast are strictly adhere to

Final Comments:

Requests

- Wish more innovative training
- I hope AICCRA will fulfill their promise by providing improved seedlings to our farmers who participated in the Demo. at the various communities
- Please is there any help for women in agriculture
- AICCRA has to involve many women
- The training which I had the privilege of joining , was insightful.. and I wish I could be a pro in Maproom skills
- Training on the ADT need further hands-on to increase the expert base to make it very operational. I think GMet IT doesn't have access to the backend code of ADT hence when new stations established, they can't be added.
- If I want to get more of CDT, how do I get help from you or elsewhere? You need to do more to unveil the project or better participation. Any opportunity to learn this CDT, I am ready for that.
- I wish AICCRA could increase the number of sponsorships to support students pursuing their masters or PhD. Especially students from the Northern Ghana who lack financial capacity. Also, I wish AICCRA could scale up the number of beneficiaries farmers, because, farmers are now willing to adopt to the technologies, new seed varieties demonstrated into their own fields.
- AICCRA project the CIS/CSA innovations that is One health sensitive
- AICCRA is a good partner. Is it possible that they can be powered to cover the whole country?
- The AICCRA project has been very educative and I would like to participate more future activities
- With the safety of Agricultural extension officers, how is AICCRA working towards that in coming season

Positive Feedback

- Great job AICCRA we are looking forward to more.
- AICRA has been helpful in disseminating improved technology to smallholder farmers

Kenya

In 2022, AICCRA Kenya took a multi-pronged approach to improving climate change adaptive capacity in Kenyan drylands, engaging across the CIS and CSA knowledge chains. At the most upstream, we implemented numerous trainings on cutting edge climate information tools with the Kenyan Meteorological Department, improving their capacity to deliver accurate climate data in a timely manner. We have similarly worked with the Kenyan Agricultural and Livestock Research Organization to embed and institutionalize our AgDataHub platform for integration of climate and agricultural information that support digital advisories. We made substantial strides in bringing KMD and KALRO back together to a collaborative relationship under the Kenyan Agricultural Observatory Platform, despite significant institutional boundaries and barriers. Building on the AgDataHub, we engaged a variety of public and private partners – AgriFin, Source Trace, Kuza Biashara and Tomorrow Now – for the dissemination of targeted digital ag/climate advisories.

At more local levels, AICCRA Kenya trained both public and private sector actors in 3 ASAL counties (Makueni, Taita Taveta and Kitui) on the integration of agricultural and climate advisories with drought tolerant crops. These trainings are designed to strengthen institutional capacities to promote and implement bundled CSA/CIS. We also implemented 16 demonstration plots for drought tolerant crops with farmers and held extension field days across the three counties. It is worth noting, however, that the failure of the long rainy season slowed and reduced our reach with these events.

In the ASAL livestock sector, the KAZNET crowd-sourced information system expanded all the way up the northern Kenya livestock corridor to Ethiopia. This now spans 3 counties (Marsabit, Isiolo and Samburu), covering 6 markets, training 40 people , and reaching 600 people directly. Furthermore, there are partnership agreements in progress with the State Department of Livestock and Kenya Livestock Marketing Council to link KAZNET with the National Livestock Information System, which is currently being used by them. Due to social safeguards procedures, we were not permitted to implement participatory rangeland management as planned, in partnership with Wajir County and local NGO Reconcile. However, social safeguards hurdles have now been cleared and PRM will begin in Q1 2023.

Finally, AICCRA developed the CSA/CIS curricula for three universities, Taita Taveta University, Muranga University and Chuka University. By developing and sharing these curricula, we contribute to capacity building of the next generation of graduates who will move into national and local administrative and scientific positions, as well as private sector service delivery positions. Supported by our cutting edge content, some of these graduates may even go into farming itself.

There were 25 total respondents for the Kenya Cluster.

IPI: 1.3: Average 86%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services <u>in particular for gender/ youth responsiveness</u>?
- How **relevant and useful** are the following products/ services <u>in particular for gender / youth responsiveness</u>?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score
CIAT CSA curriculum Taita Taveta University - BSc. Rangeland Ecosystem Management	16% (N= 4)	90%	20% (N= 5)	88%	20% (N= 5)	88%
CIAT CSA Curriculum Taita Taveta University - MSc. Rangeland Ecosystem Management	16% (N= 4)	90%	16% (N= 4)	85%	20% (N= 5)	88%
CIAT CSA Curriculum for Taita Taveta University - MSc. Climate Smart Agriculture	16% (N= 4)	90%	16% (N= 4)	90%	20% (N= 5)	88%
CIAT CSA Curriculum for Chuka University of Technology - MSc. Agroecology	36% (N= 9)	89%	36% (N= 9)	84%	36% (N= 9)	89%
CIAT CSA curriculum for	32% (N= 8)	88%	36% (N= 9)	82%	40% (N= 10)	86%

Chuka University of Technology - BSc. Landscaping and Crop Protection						
CIAT CSA farmer training manual for Chuka University of Technology	36% (N= 9)	87%	36% (N= 9)	84%	40% (N= 10)	90%
CIAT CSA Demonstration plot for Chuka University	36% (N= 9)	89%	36% (N= 9)	87%	40% (N= 10)	88%
CIAT CSA curriculum for Murang'a University of Technology - MSc. Climate Smart Agriculture	12% (N= 3)	87%	12% (N= 3)	87%	16% (N= 4)	90%
CIAT CSA Demonstration plot for Murang'a University of Technology in Mariira Farm	12% (N= 3)	80%	12% (N= 3)	87%	16% (N= 4)	90%
CIAT Capacity Building of Local Partners on Enhancing Climate Resilience at the Sub-national Level with Child Fund (and partners)	20% (N= 5)	84%	16% (N= 4)	90%	20% (N= 5)	92%
Sorghum Business Case in Kenya	20% (N= 5)	84%	20% (N= 5)	92%	24% (N= 6)	90%
Climate Informed Advisory Services (KMD)	56% (N= 14)	89%	56% (N= 14)	81%	60% (N= 15)	87%
Improving and validating KAOP product and	24% (N= 6)	60%	28% (N= 7)	63%	32% (N= 8)	80%

services[3]						
Automatic Weather Station Data Tool (ADT) training	44% (N= 11)	84%	40% (N= 10)	84%	44% (N= 11)	85%
Advanced Climate Data Tool (CDT) training	52% (N= 13)	91%	36% (N= 9)	84%	44% (N= 11)	84%
Data Library Maintenance and Maproom Development Training	48% (N= 12)	83%	48% (N= 12)	75%	44% (N= 11)	82%
Training of Trainers (ToT) On Enhancing National Climate Services (ENACTS) Maprooms for Users	60% (N= 15)	88%	52% (N= 13)	85%	52% (N= 13)	86%
Automatic Weather Station Data Tool (ADT) installation	44% (N= 11)	87%	36% (N= 9)	87%	40% (N= 10)	86%
Average		85%		84%		87%
Average	86%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- The said services are not limited to a certain group rather the whole population
- KAoP ought be hosted by Meteorological Services for effective MEL on transfer of climate information
- Some activities am not involved and thus can't comment
- Not available to the wider public
- As an organization we have not interacted with most of those technical documents especially the Curriculums for the Universities we have only been capacity built on Enhancing Climate Resilience at the Sub-national Level

---

[3] Perceptions on who should host KAOP could have influenced the results.

IPI 2.4: Average 89%

	Effectiveness	
	Respondents	**Score**
Vision: The AICCRA project as our partner is e.g. aligned to my organizational goals	100% (N= 25)	91% (4.6)
Leadership: The AICCRA project as our partner e.g. takes leadership and is engaged; actively participates; participates in additional fundraising	80% (N= 20)	89% (4.5)
Accountability: The AICCRA project as our partner e.g. reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	88% (N= 22)	85% (4.3)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	96% (N= 24)	91% (4.5)
Impact: The AICCRA project as our partner e.g. is involved in local context; policy making; scaling innovations; capacity building in local context	92% (N= 23)	88% (4.4)
Average		89% (4.4)

Comments on Effectiveness, or explanations and justifications for rates below 3:

- KAOP ought to hosted by Meteorological Services for MEL and sustainability
- Communication requests for disbursement of funds is met with contempt leading to rushing to carry out activities
- As an organization we haven't been involved in AICCRA project so we may not know much about it, we are however looking forward to working closely with AICCRA project

IPI 3.3: Average 72%

18 out of 25 respondents (72%) indicated they have used 1 or more of these products/services.

Examples include:
- KAOP
- I have used ENACTS KMD Maproom, ADT and CDT in my day to day work at KMD
- Have used KMD maproom for Loima sub county (Lodwar) annual rainfall graphs in one of the Reach workshop depicting rainfall patterns in the area
- Accessing trends and projected forecasts from the KMD maproom
- Used ADT to determine where new stations ought to be installed
- KMD Maprooms in preparing Tv episodes for Shamba Shapeup
- I always get our advisories in KMD website and monthly I use the maproom to get information of Malaria probability
- CDT used to carryout data quality control operationally
- At KMD
- Used CDT in data analysis
- I used CDT to generate spatial outputs
- Dissemination of weather information
- Demonstrations at Murang'a University of Technology for farmer field days; automated weather station for data for modelling
- We are using the curricula developed for Taita Taveta University to enhance/broaden relevant academic programs on offer. The curricula have been submitted to the Commission for University Education to be accredited.
- CIAT-CSA at Chuka University
- Used farmer manual in farmers training
- Have been able to make manuals that would be used for farmers training; Have also developed a curriculum
- Bioversity Alliance-CIAT conducted Capacity Building of Local Partners and Government Officers on Enhancing Climate Resilience at the Sub-national Level with ChildFund

Final Comments:
- I appreciate the partnership particularly on capacity building and infrastructure improvement at KMD maproom, ADT and CDT
- We need more capacity building and training on maproom products
- Keep it up and continue in the good work of improving the quality, access of information services and technologies
- We are greatly indebted to AICCRA for the support we have received in our collaborative activities. This is only a start, and we look forward to greater and more impactful collaborations.
- Improve on timely disbursement of funds

Mali

Mali is a rice bowl in West Africa, providing an important amount of regional rice production, but is also highly vulnerable to climate variability and change. Aside from temperature rises, changes in rainfall patterns, increase in the frequency of extreme events such as droughts and floods, desertification, and changes in disease vectors, were observed in Mali over the past decades. Projected decreases in rice yield as a consequence of climate change varied from 10 to 80% depending on the production system. To enhance the resilience of the rice sector to climate change, AICCRA-Mali used a participatory framework to prioritize climate-smart agriculture and climate information services, and identify the barriers, incentive mechanisms, and roles of institutions for ensuring large-scale adoption. The results showed the best bet interventions include RiceAdvice, drought, and submergence tolerant varieties, parboiling kit, solar-powered irrigation systems for supplemental irrigation, the system of rice intensification, direct seeder, and weather forecasts, while access to finance was identified as a major barrier for CSA and CIS adoption. Subsequently, Mali developed partnerships with key national organizations, organized training sessions, provided backstopping, and deployed inclusive business models to ensure large-scale adoption of the above-mentioned CSA and CIS interventions. The relevance and description of the interventions, as well as the partners involved in their implementation and scaling are provided here.

- RiceAdvice

Shifting planting dates and fertilizer application rates have the potential to mitigate the negative impacts of climate change on rice production. Therefore, efforts are being made by governments and development agencies to spur agricultural intensification and climate change adaptation through revised crop calendars and fertilizer recommendations. These endeavors, however, have been met with continued low levels of adoption partly because of the failure to account for the highly heterogeneous and local context. Unable to represent the complexity of actual farms, institutions produce standardized recommendations for crop calendar and the levels of input use, and the resulting development programs and policy "solutions" pay scant attention to the particularity of a given field or farmer, collapsing or ignoring distinctions that might otherwise be relevant. Although it was historically expensive to account for heterogeneity in fields and farms when producing recommendations, in the past few years, mobile technology in the form of decision support tools has greatly reduced the cost of delivering personalized advisory services. RiceAdvice is an Android-based application (or app) that was developed by AfricaRice to provide personalized recommendations on crop calendar, variety, and nutrient management (type, quantity, and timing of fertilizer) in rice production. The app utilizes information and communication technology (ICT) that enables extension agents to gather data from farmers about the particular local context. The app then provides farmers with the specific crop, field, and seasonal advice regarding crop calendar, variety, fertilizer application, and agro-management practices. In 2022, AfricaRice developed

partnerships with the Syngenta Foundation for Sustainable Agriculture and strengthened the capacity of the Center for Mechanized Agriculture (CEMA) to ensure the deployment of RiceAdvice benefits over 50,000 farmers including 35% of women.

- Drought and submergence-tolerant rice varieties

It is widely acknowledged that drought and submergence-tolerant rice varieties have the potential to enhance farmers' resilience to climate change. However, due to the limited availability of quality seeds, the adoption of drought and submergence-tolerant rice varieties has been limited in Mali. AICCRA-Mali established partnerships with the Institute for Rural Economics (IER) in the identification of the most preferred drought and submergence-tolerant rice varieties that meet farmers' and consumers' preferences and strengthened the capacity of the Center for Mechanized Agriculture in the production of quality seeds of the most preferred drought and submergence-tolerant rice varieties. The varieties selected by stakeholders were Sutura rice variety (heat tolerant), KAFACI 1 (drought and flooding tolerant rice variety), and ARICA 3 (pest and disease tolerant rice variety). In 2022, training sessions and backstopping were provided by the CEMAs to produce quality seeds of Sutura, KAFACI 1, and ARICA 3, which are now used by over 11,000 farmers.

- Parboiling kit

The demand for good quality parboiled rice is high in Mali. But the traditional parboiling process is laborious, time-consuming, and unsafe, producing rice with impurities, broken and burnt grains, and an undesirable smell, making local rice not competitive with imported rice. The local parboiling process also requires lots of firewood and water and generates low income for women, the major players in the rice parboiling process. AfricaRice and its partners have developed an improved rice parboiling technology called GEM –short for 'Grain quality enhancer, Energy-efficient, and durable Material,' – which produces rice of high physical and eating quality compared with the traditional technology. Additionally, the GEM parboiling technique makes use of rice husk and reduces the emission of black carbon and methane compared to the traditional system. In 2022, AICCRA-Mali trained and provided backstopping to the staff of the Niger Office and women of the Center for Mechanized Agriculture in the use of the GEM parboiling technique.

- Solar-powered irrigation systems for supplemental irrigation

Effective irrigation helps farmers avoid climate and weather-related shocks by supplementing rainfall during long dry spells to maintain food production. But the high cost of diesel and electricity combined

with often intermittent and unreliable energy services make traditional pumps an unsustainable option for farmers in Mali. AICCRA-Mali collaborated with the Syngenta Foundation for Sustainable Agriculture and ECOTECH, a company that sells solar irrigation systems to facilitate access to solar-power irrigation systems for supplemental irrigation using the "Pay-as-you-go" model.

- System of rice intensification

Water scarcity and low soil fertility are major constraints for crop production in Mali. AICCRA-Mali established a partnership with and strengthened the capacity of the Niger Office in the use of the system of rice intensification. Niger Office is a semi-governmental institution that administers the largest irrigation scheme (100,000 ha) in Mali. The system of rice intensification is a water-saving with soil fertility improvement technology that consists of the use of 15 days old seedlings, transplanting at a wider space (30 cm), applying organic fertilizer, and using an alternate wetting and drying irrigation technology.

- Direct seeder

Labour scarcity as a result of climate change and conflict-induced outmigration is a major issue for agricultural development in Mali. AICCRA-Mali trained the Center for Mechanized Agriculture in the use of direct seeders for reducing the labour requirement for direct seeding and providing services to farmers.

- Saving for Change financing mechanism

Limited access to finance is widely acknowledged as a major limitation to the adoption of CSA and CIS interventions. Traditional financing systems by micro-finance institutions and banks exist in Mali, but do not benefit the poorest of the poor because of the guaranty funds required on one hand, and the prohibitive interest rate on the other. To provide the first indispensable pull to the poorest of the poor, and particularly women, AICCRA-Mali established a partnership with the ANACIM NGO to promote the "Saving for Change" financing mechanism. The "Saving for Change" helps women's farmers organize and manage groups that collect savings from the members and lend the money to themselves at interest. ANACIM NGO supported women's farmers' organizations in the establishment of the Saving for Change financing mechanisms and the use of the loans for making the initial investment required to adopt CSA and CIS interventions in the project sites.

- Weather forecasts

Dissemination of weather and climate information services that are demand-driven, cost-effective, timely, and easy to access and implement is critical to increasing the adoption of CSA and CIS interventions. AICCRA-Mali established partnerships with Mali-Meteo to enhance the delivery of weather forecasts to

smallholder farmers of the project sites using the Local Group for Meteorological Assistance approach.

- Climate Data Tool (CDT)

The use of climate data in Mali for research and applications has been limited due to several factors including poor availability of and access to quality climate time series and national data policies. Combining quality-controlled data from national observation networks with satellite estimates for rainfall and climate model reanalysis products for temperature can help address this issue. AICCRA-Mali established a partnership with the International Research Institute for Climate and Society (IRI) at Columbia University to strengthen the capacity of Mali-Meteo in the use of CDT for data organization, quality control, combining station data with satellite and reanalysis data, evaluating merged and inputs datasets, performing an array of analyses, and visualization.

There were 25 total respondents for Mali.

IPI: 1.3: Average 92%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?
- How **relevant and useful** are the following products/ services in particular for gender / youth responsiveness?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	**Satisfaction Score**	**Respondents**	**Satisfaction Score**	**Respondents**	**Satisfaction Score**
Climate Data Tool (CDT) Training**	44% (N= 11)	89%	44% (N= 11)	91%	72% (N= 18)	84%
ARICA 3 (pest and disease tolerant) rice variety	20% (N= 5)	96%	20% (N= 5)	96%	44% (N= 11)	89%
Daily and 10-day weather forecasts	60% (N= 15)	96%	64% (N= 16)	94%	72% (N= 18)	94%
Direct seeder	12% (N= 3)	93%	12% (N= 3)	100%	44% (N= 11)	89%

KAFACI 1 (drought and flooding tolerant) rice variety	20% (N= 5)	100%	20% (N= 5)	100%	44% (N= 11)	87%
Parboiling kit	8% (N= 2)	90%	12% (N= 3)	93%	44% (N= 11)	95%
RiceAdvice	36% (N= 9)	98%	36% (N= 9)	100%	56% (N= 14)	94%
Saving for a Change financing mechanism	16% (N= 4)	95%	20% (N= 5)	92%	52% (N= 13)	88%
Supplemental irrigation to mitigate drought spells within the rainy season	8% (N= 2)	80%	8% (N= 2)	90%	44% (N= 11)	73%
Sutura (heat tolerant) rice variety	12% (N= 3)	87%	12% (N= 3)	87%	36% (N= 9)	82%
Average		92%		94%		88%
Average	91%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- *je ne saurai juger les autres produits et services car je n'ai participé qu'à la formation sur CDT*
  I can't judge the other products and services because I only participated in the CDT training
- *j'ai eu à participer la formation CDT*
  I participated in the CDT training
- *Poursuite des activités*
  To continue the activities
- *De reprendre la formation de CDT*
  To organize another training session on CDT
- *En plus des prévisions météorologiques nous comptons avoir les autres produits pour améliorer d'avantage nos système de production et s'adapter mieux aux effets du changement climatique.*
  In addition to weather forecasting, we hope to have the other products to improve our production system and adapt better to the effects of climate change.
- *La mise à disposition des variétés qui s'adaptent mieux au changement climatique serait une alternative pour rehausser la production.*
  The availability of varieties that are better adapted to climate change would be an alternative to increase production

- *La sensibilisation des femmes aux effets du changement climatique et la mise à disposition des semences de riz adaptés aux changement climatique sont nécessaire pour améliorer leurs rendements.*
  Sensitizing women to the effects of climate change and providing them with rice seeds adapted to climate change are necessary to improve their yields
- *La facilitation des femmes à l'utilisation des semences de riz adaptées aux effets du changement climatique améliore leur production et leur revenu.*
  Facilitating women's use of rice seeds adapted to the effects of climate change will improve their production and income.

IPI 2.4: Average 86%

	Effectiveness	
	Respondents	**Score**
Vision: The AICCRA project as our partner is e.g. aligned to my organizational goals	100% (N= 25)	89% (4.4)
Leadership: The AICCRA project as our partner e.g. takes leadership and is engaged; actively participates; participates in additional fundraising	96% (N= 24)	84% (4.2)
Accountability: The AICCRA project as our partner e.g. reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	96% (N= 24)	80% (4.0)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	100% (N= 25)	87% (4.4)
Impact: The AICCRA project as our partner e.g. is involved in local context; policy making; scaling innovations; capacity building in local context	96% (N= 24)	91% (4.5)
Average		86% (4.3)

Comments on Effectiveness, or explanations and justifications for rates below 3:
- *Le décaissement avec AICCRA à pris beaucoup de retard.*
  We received the first installment with much delay.
- *Retard dans les activités*
  Delay in activities

IPI 3.3: Average 96%

23 out of 25 respondents (92%) indicated they have used 1 or more of these products/services.
1 responded Maybe, and it was confirmed they had; therefore, 24 out of 25 confirmed use (96%)

Examples include:
- *CDT a été utilisé pour faire la combinaison des données satellitaires avec les données des stations météo au sol afin d'élaborer des produits comme les dates de début, les dates de fin et la longueur de la saison. Il ya aussi des cartes de normales climatique, l'évapotranspiration, le bilan hydrique etc.*
  CDT has been used to combine satellite data with ground-based weather station data to develop products such as onset, cessation and duration of seasons, as well as maps of climate normals, evapotranspiration, water balance etc.
- *Plusieurs produit sur l'outil CDT*
  Several products were generated with the use of the CDT tool
- *J'utilise fréquemment l'outil CDT depuis qu'on a reçu une formation là dessus.*
  I frequently use the CDT tool since we have been trained.
- *carte des dates de semis ; longueur e la semis , débit et la fin de la semis, ETP*
  I used the CDT tool to produce the map of sowing dates, onset, cessation and duration of rainy season, and potential evapotranspiration.
- *les données météo comme les précipitations et température*
  Weather data such as rainfall and temperature
- *L'outil CDT à été utilisé pour la fusion des données satellitaires avec celles issues du réseau d'observation de MALI METEO. Le calcul des paramètres agrometeo le contrôle de la qualité de la base de données et des indicateurs du changement climatique*
  The CDT tool was used to merge satellite data with data from the MALI METEO observation network, database quality control, the computation of agrometeorological parameters, and climate change indicators
- *le riz sutura: le riz sutura est adapte a nos conditions locale pour un meilleur rendement; les prévisions saisonnières;CDT*

We have used sutura rice variety adapted to our local conditions for a better yield, seasonal forecasts, and the CDT tool

- *Les prévisions météorologiques quotidiennes dans la planification de nos activités les données météo nous ont de faire une bonne planification de nos activités.*
  The daily weather forecast has helped us to make a climate informed planning of our activities.

- *Prévisions météorologiques nous permet de faire une bonne planification des activités agricoles*
  Weather forecasts allow us to make a climate informed planning of agricultural activities

- *oui, ce produit est utile, par ce que ça nous aide à comprendre l'actualité évolutif des différentes services climatiques dans ladite localité. De plus ça aide les producteurs à avoir les informations à temps réel. cet outil nous permet au niveau du barrage de sélingué de connaitre à quel moment on doit faire les lâchers d'eau et de fermer les vannes; c'est un outil qui assure la sécurité des usagers de l'eau.*
  Yes, this product is useful, because it helps us to understand the changes in the climatic conditions in the project sites. This tool also helps us to plan irrigation activities (release of water), and enure all farmers of the irrigation scheme can have access to water when needed.

- *Oui cet produit est utile il nous aide à la planification de nos activités au cours des campagnes agricoles (l'hivernale et contre saison).*
  Yes, this product is useful. It helps us to plan our activities during the agricultural campaigns both in the rainy and off-seasons.

- *Le CEMA SOCOUMA à travers 5 jeunes APS à fournit les conseils de bonne pratiques agricoles climato intelligente à des milieux de riziculteur à travers l'outil digital Advice RiceAdvice. Cet outil permet l'augmentation de rendement de riz de 0,5 voir 1tonne de paddy à l'hectare.*
  The CEMA SOCOUMA through 5 young service providers provided advice on site-speficic crop calendar construction, varieties and good agricultural practices using the RIceAdvice tool to farmers, which resulted in rice yield increase of 0.5 to 1 t/ha.

- *Les informations météorologiques et les recommandations RiceAdvices sont les principales technologies utilisées par notre organisation.*
  Weather information and RiceAdvice recommendations were the main technologies used by our organization.

- *Les riziculteurs ont utilisé avec satisfaction les variétés Kafaci1, Arica3 et les recommandations de l'outil Advicerice. Cela s'est fait dans le cadre de collaboration entre la fondation syngenta et l'ODRS qui est une organisation de vulgarisation agricole de l'État dans la zone de Sélingué.*
  With a great satisfaction, rice farmers used the Kafaci1 and Arica3 varieties and the recommendations from the RiceAdvice tool. This was done in the framework of a collaboration between the Syngenta Foundation and the Irrigation Scheme of Selingue Office, a public institution that administers the irrigation scheme of Sélingué.

- *Nous avons utilisé l'approche Epargner pour le changement pour mobiliser plus de groupement*

des femmes afin d'améliorer leurs source de revue monétaire et ainsi faciliter leurs accès aux technologie Climento intelligente dans le cadre du projet AICCRA en collaboration avec la fondation Syngenta et notre organisation AMACIC.

We used the Saving for Change approach to facilitate access to finance to women groups, and the required investment for adopting climate smart agriculture technologies. This was achieved within the framework of the AICCRA project in collaboration with the Syngenta Foundation and our organization AMACIC.

- *Nous avons organisé les femmes en groupement d'épargne en s'appuyant sur l'approche Épargner pour le Changement.ce appui a permis aux femmes de mobiliser des fonds et développer leurs activités de maraichage, de riziculture et d'avoir accès aux intrants.*

  We organized the women into savings groups using the Saving for Change approach. This support enabled the women to mobilize funds and develop their market gardening and rice growing activities and have access to inputs.

- *En collaboration avec la fondation synsinta pour la mis en place des activités de projet Aiccra, plusieurs centaines des producteurs du riz encadrent par l'odrs sélingué ont utiliser avec beaucoup de satisfaction le technologique et information climatointelligente suivantes :le variétés arica3,kaci1,les prévisions météorologiques et les recommandation de Rice ascèse. , plusieurs centaines des producteurs ena.*

  In collaboration with the Syngenta Foundation in the framework of the AICCRA project activities, several hundred rice producers supervised by Irrigation Scheme Development Office of Selingué used the following climate-smart technologies and information with great satisfaction: the Arica3 and Kafaci1 varieties, weather forecasts, and the recommendations from RiceAdvice.

- *Produits de relever de la météorologie (observateur météo)*

  We used raingauge for accessing information about quantity of rainfall and make agricultural decisions.

- *Les relevés pluviométriques faites par les femmes durant la campagne facilite la mise en œuvre de leur activités*

  The raingauges enabled women to be informed about the quantity of rain and make climate informed decision during the growing seasons.

- *En tant que femme gestionnaire de notre CEMA Kumasse qui fournit des services agricoles mecanice, augmentation du rendement de nos clients c'est ta dire les rizculteur ,est notre souci. C'est pourquoi,en collaboration avec la fondation S, notre équipe à travers des jeunes agents prestataires de services (APS) à encadre plusieurs centaines de riziculture femmes jeunes et hommes à utilisation des technologies intelligente. Ainsi, c'est producteurs ont utilisé les technologies de la variété suture,de l'outil RiceAdvice, semoir direct et ont obtenu des information météorologiques quotidiennes et décodeur.les agriculteurs ont manifeste leur joie d'avoir accès à ce te.*

As a woman manager of our CEMA Kumasse, which provides agricultural services, increasing the yield of our clients (the rice growers) is our concern. That is why, in collaboration with the Syngenta Foundation, our team through the young service providers (APS) trained and provided backstopping to several hundreds of young women rice farmers in the use of climate smart agriculture technologies, particularly the variety Sutura, RiceAdvice, direct seeder, daily, and ten-days weather information. The farmers were very excited to benefit from these interventions, thanks to the AICCRA project.

- *La Fondation Syngenta travaille sur 4 grandes zones rizicole dont la zone de l'Office du Niger, Office Riz Ségou, Office de Périmètre Irrigué de Baguineda et l'Office du Développement Rural de Sélingué. La Fondation Syngenta a Développé dans le cadre du projet AICCRA, de partenariat avec plus 10 organisations afin d'assurer une bonne diffusion et d'impacts forts des technologies climato intelligente. Plus de 50000 riziculteurs ont été touchés soient par les technologies des semences climato intelligente, l'outil RiceAdvice et la diffusion des informations météorologiques.*

  The Syngenta Foundation is working in four major rice-growing environments in Mali, including Niger Office, Irrigated rice scheme of Ségou Office, Barguineda Irrigation scheme Office, and Sélingué Irrigation Scheme Office. The Syngenta Foundation has developed, within the framework of the AICCRA project, partnerships with more than 10 organizations in order to ensure the dissemination of climate-smart technologies and achieve major impacts. More than 50,000 rice farmers were reached with climate-smart rice varieties, RiceAdvice tool and the dissemination of weather information.

- *Pendant la campagne hivernale, nous avons utilisé les variétés Kafaci1, ARICA, RiceAdvice, les prévisions météorologiques.*

  During the rainy season, we used the Kafaci1, ARICA, RiceAdvice, weather forecast information.

Final Comments:

- *Mettre les fond à la disposition des institutions à temps pour ne pas impacter sur les résultats du projet car le temps est précieux*

  Make the funds available to the institutions in time so as not to impact on the results of the project because time is precious

- *ce projet sera t il relancé une fois cette phase terminée?*

  Will the project have a Phase 2?

- *j'aimerais que le projet (AICCRA) reprendre encore la formation de CDT tres interessant*

  I found the training in CDT very useful, and would like AICCRA to organize another session

- *Commentaires 1: (fiche d'enquête) je propose que MALI METEO figure parmi les organisations.*
  Comment 1: (survey form) I propose that MALI METEO be listed among the organizations in the survey form.
- *j'ai beaucoup apprécier le activités et produits élaborées par le projet AICCRA*
  I appreciate very much the activities and products developed by the AICCRA project
- *Si le projet peut facilité l'accessibilité à certaine gammes de produits (kit d'étuvage, semoir direct); (KAFACI, ARICA3, Sutura) D'AICCRA en fin d'apporté plus efficacité dans le rendement agricole dans la dite localité.*
  If the project can facilitate the access to certain technologies such as parboiling kit, direct seeder, KAFACI, ARICA3, Sutura, that will enhance crop yield in our community.
- *Pourquoi les autres modules n'ont pas encore fait l'objet de formation ?*
  Why training sessions were not yet provided in other modules?
- *Nous comptons beaucoup sur la prise en charge des femmes dans la mise en œuvre des projets de production d'innovation de la riziculture nous sollicitons une forte implication des Agents d'encadrement*
  We rely a lot on the support of women in the implementation of the projects particularly in the development and dissemination of innovations in the rice-based systems. We would like also to have more women as extension agents.
- *Nous soluciton en tant que femme et jeune ,au projet AICCRA de continuer avec ces actions d'accompagnement sur une plus longue durée pour maximum les impact*
  As young woman, we solicit the support of AICCRA project on a longer duration to consolidate the impacts.
- *Ce commentaire vient des bénéficiaires directeurs du projet AICCRA: "Nous saluons les efforts du projet AICCRA qui nous a permis d'accéder à des technologies climato intelligente et les informations météorologies facilement au niveau local. Nous souhaitons une continuité des actions de ce projet sur une longue période pour l'intérêt des producteurs du riz".*
  This comment comes from the direct beneficiaries of the AICCRA project: "We thank the support of the AICCRA project which has allowed us to access climate smart agriculture interventions and weather information easily at the local level. We hope that the project will continue over a long period of time for the benefit of rice producers.
- *Nous en tant que agent de vulgarisation agricole de service étatique, l'outil RiceAdvice et les prévisions météorologiques quotidiennes services d'outils de vulgarisation*
  As agricultural extension agents from the public sector, we used RiceAdvice tool and daily weather forecasting services disseminated under AICCRA

Senegal

AICCRA-Senegal cluster activities in 2022 revolved around five main products and decisions making tools that are : Intelligent Systems Advisory Tool (iSAT, AgDataHub, the Automatic weather Stations Data Tool (ADT), SAIDA platform reinforcement, the mailbox tool for feedback during agricultural campaign and several Awareness-raising events. This evaluation focused only on the first three products (iSAT, ADT and Agdatahub) and was addressed to 20 stakeholders. 11 responses have been received.

1. iSAT[4]

The iSAT is the development of a climate advisory service through a decision tree process which last users are smallholder crop and livestock farmers. Developed by International Livestock Research Institute (ILRI) with active collaboration of Jokolante, ICRISAT, ANACIM and ISRA/CERAAS, the tool builds context-specific and real time climate and agro-advisory information available through ICT. As of September 2022, 18 994 weekly climate informed agro-based advisories using IVR voice messages in local languages-Wolof, Pula- were sent to 2720 (23.5% women-led farms) registered users via Jokalanté.Detailed information can be found on the following links on the tool description and its use by farmers:

 iSAT is now integrated into the SAIDA (A FAO tool for Senegal administered by the National Agency for Agricultural and Rural Council (ANCAR))

2. AgDataHub[5]

The AgDataHub platform is a digital CIS that aims to create an ecosystem of data and information at a single source to support various actors in the CIS data value chain. The AgDataHub will be accessible through a web browser and will be docked on the GTP portal. The AgDataHub will also be embedded with a mobile application that can be configured to assist GTPs in data collection (agriculture, livestock, weather, etc.) and management. The platform, through various processing and data visualization methods, will mesh agricultural and allied sector data with climate and weather data to produce dashboards as well as decision support tools catering to the various information needs at different administrative levels and spatio-temporal resolutions. With systemic training on the use of AgDataHub data and dashboards, plus more intentional development and deployment of pilots, this digital CIS platform could result in greater and more consistent use of climate data and science in agricultural decision-making. Through this pathway, AgDataHub will become a means to forge partnerships across the spectrum of public and private sector organizations to enable impactful and transformational CIS at scale.

---

[4] https://cgspace.cgiar.org/handle/10568/126269
[5] https://hdl.handle.net/10568/125543

Data flows including from ANACIM's ENACTS platform is also now complete. The AgDataHub will soon be embedded into the GTP portal.

3. The Automatic Weather Station Data Tool (ADT)[6]

The ADT is a web-based application developed to alleviate challenges with access and use of Automatic Weather Stations (AWS) data. ADT has an easy-to-use graphical user interface and enables National Meteorological Services to access, process, quality control, analyze, visualize, and disseminate data from different AWS systems in one place. In November-December 2022, Rija Faniriantsoa worked with staff of Senegal's met-agency (ANACIM), to install ADT to manage its AWS networks, and to train staff to maintain ADT. See footnote for more details.

Prior to this training , a training workshop was held in Dakar on 10 November 2021, that introduced AICCRA-Senegal partners to Climate Maprooms, data, and other relevant tools and platforms that are available through ANACIM. Presentations covered ANACIM products and strategy for agriculture and related sectors, the ENACTS approach to strengthening national capacity to provide locally actionable climate information, and analyses of the quality of ANACIM's gridded historical data that serve as a foundation for localized climate information products. Participants gained experience navigating and interpreting ANACIM's existing suite of climate Maproom tools.

A full report is found here[7]: Training on ANACIM Data and Maproom Tools Relevant to AICCRA

The survey was sent to the participants who attended the workshop

· The AgDataHub is meant to be a technological as well as organizational intervention that aggregates important agriculture data and unleashes the power of data analytics by supporting actors and key stakeholders make data driven decisions. The AgDataHub is working closely with ANACIM in order to be integrated in the GTP (Multidisciplinary Working Group) platform.

IPI: 1.3: Average 73%

- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?

---

[6] https://cgspace.cgiar.org/handle/10568/126633
[7] https://cgspace.cgiar.org/handle/10568/117695

- How **relevant and useful** are the following products/ services <u>in particular for gender / youth responsiveness</u>?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	**Satisfaction Score**	**Respondents**	**Satisfaction Score**	**Respondents**	**Satisfaction Score**
Intelligent Systems Advisory Tool (iSAT)5	91% (N= 10)	66%	91% (N= 10)	70%	82% (N= 9)	87%
AgDataHub	64% (N= 7)	60%	64% (N= 7)	66%	73% (N= 8)	78%
Automatic Weather Station Data Tool (ADT) installation & training for ANACIM	91% (N= 10)	74%	82% (N= 9)	71%	82% (N= 9)	84%
Average		67%		69%		83%
Average	73%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- *AgriDataHub est en cours de conception mais n'est pas encore finalisé, c'est pourquoi l'appréciation ne peut être que provisoire*
  AgriDataHub is being designed but is not yet finalized, so the rating can only be provisional

IPI 2.4: Average 79%

	Effectiveness	
	Respondents	**Score**
Vision: The AICCRA project as our partner is e.g., aligned to my organizational goals	100% (N= 11)	76% (3.8)
Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising	91% (N= 10)	78% (3.9)
Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	82% (N= 9)	82% (4.1)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of information	91% (N= 10)	74% (3.7)
Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context	82% (N= 9)	82% (4.1)
Average		79% (3.9)

Comments on Effectiveness, or explanations and justifications for rates below 3:

- *Je ne suis pas au courant ou je n'ai jamais entendu parler que le projet AICCRA a contribué à l'élaboration de politiques locales.*
  I am not aware or have never heard that the AICCRA project has contributed to local policy development.
- *la démarche de AICCRA est très pertinente*
  AICCRA's approach is very relevant

- *AICCRA n'est pas impliqué dans l'élaboration de politiques, ni aux autres activité de la dernière question, elle contribue en tant que PTF*
  AICCRA is not involved in policy development, nor in the other activities of the last question, it contributes as a PTF

IPI 3.3: Average 55%

6 out of 11 respondents (55%) indicated they have used 1 or more of these products/services.

Examples include:
- *j'ai utilisé l'objet de mesure de l'eau*
  I used the water measurement object
- *Pour la collecte des données et comme outil pour la prise de décision*
  For data collection and as a tool for decision making
- *Les prévisions climatiques hebdomadaires; les conseils agricoles*
   Weekly climate forecasts; agricultural advice
- *iSAT et AgDataHub ont été utilisés pendant les réunions de partage. ADT pour avoir information climatique*
  iSAT and AgDataHub were used during the sharing meetings. ADT for climate information
- *données pluviométriques et climatiques, identification des CSA*
  rainfall and climate data, identification of CSA
- Anacim

Final Comments:
- *Merci pour cette belle initiative. Nous en sommes ravis mais pour les prochaines échéances faudra nous donner les semences à temps, faire des formations et des sensibilisations sur l'utilisation des nouvelles technologies de l'agriculture.*
  Thank you for this beautiful initiative. We are delighted but for the next deadlines will have to give us the seeds in time, make trainings and sensitizations on the use of new technologies of agriculture.
- *Quand vous communiquer avec nous veuillez être le plus précis possible pour éviter les goulots d'incompréhension qui peuvent impacter sur le résultat attendu*
  When you communicate with us, please be as precise as possible to avoid misunderstandings that can impact on the expected result
- *Pour la convention de 2023 entre AICCRA et AICCRA: Quand seront disponibles les fonds*
  For the 2023 agreement between AICCRA and AICCRA: When will the funds be available?
- *Bien définir les rôles et responsabilités de l'ISRA et de l'ANCAR pour la suite*
  Clearly define the roles and responsibilities of ISRA and ANCAR for the future

Zambia

In 2022, AICCRA Zambia conducted several capacity development activities aimed at strengthening the capacity of farmer/producer organizations, researchers including young professionals, policy makers in delivering climate smart agriculture innovations as well as climate advisory services. Other activities included value-chain specific training to SMEs (e.g. in aquaculture, legumes and livestock), an internship program (with ACDI/Voca), an innovation challenge and an incubation program (with BongoHive), various CIS product/tool use training workshops (for ZMD, DMMU, MoA, WARMA by IWMI, IRI, ILRI and ICRISAT) and a dedicated training series conducted by RallyingCry targeted exclusively at women and youth-owned agribusiness to identify bottlenecks to inclusive finance and business sustainability for these SMEs. Over 331 (147 females) stakeholders from the private and public sector were involved in various project engagements.

For the 2022 Partner Survey, the survey was sent to 37 participants and 26 (53% males and 46% females) responded to the survey resulting in a 70% response rate.

The products/services surveyed for 2022 included the following:

Accelerator grant (solar irrigations, aquaculture, seed varieties, small livestock, GESI) and investment readiness support[89]

The AICCRA Zambia Accelerator Grant awards grants of up to US$50,000 organized under integrated 'bundles' to new partnerships formed by Zambian agri-SMEs. Fourteen Zambian agribusinesses were selected to receive a share of these five grants in February 2022. Technical assistance is provided to the agri-SMEs through AICCRA Zambia accelerator partners and is based on three different pillars. The first pillar is the provision of scientific advisories, which entails the close cooperation between science teams and the SMEs in designing and implementing CSA/CIS innovation bundles successfully. It also includes advisories on cross-cutting topics such as climate information services, or the inclusion of gender perspectives in project design. The second pillar is focused on **investment-readiness by Open Capital Advisor**s. The SMEs receive tailor-made consultancy on business- and market-related issues that will help them expand their impact and increase the likelihood of investment from external financing sources. Lastly, AICCRA provides impact measurement and management services to analyze the impact of interventions. Indicators (e.g. hectares of land irrigated or number of farmers experiencing an increase in

---

[8] https://cgspace.cgiar.org/handle/10568/124994
[9] https://youtu.be/yvEEkFRJaWg

household income) are being defined and measured to provide science-based evidence of the impact of AICCRA. AICCRA's objective is to benefit 300,000 Zambian farmers by the end of 2023.

Internship innovation grant (I2G)/internship program[10] [11]

The AICCRA Zambia Internship and Innovation Grant (I2G) supports young entrepreneurs, students and professionals through private sector work experience opportunities that foster closer partnership between national research institutes and the private sector in the scaling of CSA/CIS. Undergraduate and postgraduate students are encouraged to access courses on climate information services and climate-smart agriculture, incorporating practical projects on demand-driven innovation. The grant also works to understand and address the challenges faced by Zambian agribusiness, establishing an 'incubation' process to help start-ups become commercially successful, with co-funding and joint mobilization of resources.

AgDataHub[12]

The AICCRA Zambia AgDataHub is an integrated information platform providing data and advisories on climate information and its impact on food production in Zambia. As such, it supports the blending of climate science and agriculture through technologies and partnership such as water storage services, cloud-based visualization and analytical tools and dissemination systems, including delivery partnerships for early warning, CIS and climate-informed digital ag-advisories to reduce risks along agri-food systems and its respective actors. It will be hosted by Zambia Integrated Agriculture Management Information System (ZIAMIS) under the Smart Zambia Institute to support the co-creation of products in partnership with end users. The Intelligent Agricultural Systems Advisory Tool (iSAT) generates and disseminates data-driven, location-specific advisories that assist farmers in anticipating and responding to emerging climatic conditions throughout seasons. iSAT has the capability to access, organize, integrate and display data and information from different sources and also embed actionable analytics to provide a centralized and interactive means for monitoring, analysing and extracting relevant insights to support decision making by various stakeholders.

These agro-advisories are intended to influence both strategic and tactical decisions made by farmers, both in the pre-season planning stage and during in-season management. These services are delivered in partnership with national institutions, ICT companies and regional or national media.

---

[10] https://youtu.be/iBKc7YJ3tDA

[11] https://hdl.handle.net/10568/119244

[12] http://3.16.201.127/zambia/

Flood and drought indicators[13] [14] [15]

Through the use of Earth Observation data and Google Earth Engine IWMI co-developed a platform to monitor and report the early warning of floods and droughts. In addition, it conducted training to validate the products developed. A total of 24 participants were represented from 8 institutions (WARMA, ZMD, Ndola City Council, IAPRI, Mulungushi University, ZRCS, NRSC and ZAMSTATS). Technical experts introduced with a presentation on the potential application of flood and drought monitoring and early warning using geospatial data, tools and models including earth engine (EE). The various example presented to participants to get an understanding of the EE capabilities and how the training provides an opportunity to utilize the remote sensing products in a timely decision-making process. Later the experts delivered a lecture on the basics of remote sensing and GIS to help understand the characteristics of remote sensing sensors and their capabilities in mapping and monitoring environmental issues.

Installation, configuration and training on the Automatic Weather Station Data Tool (ADT) and Climate Data Tool (CDT) at Zambia Meteorological Department (ZMD) including Data Library Maintenance and Maproom Development Training[16]

IRI conducted an advanced training for 8 (3 females) Zambia Meteorological (ZMD) officers on Climate Data Tool (CDT) and Automatic Weather Stations (AWS) Data Tool (ADT). This training was carried out as part of the AICCRA Zambia capacity building activities of National Meteorological Services (NMS) to develop and properly deliver useful and comprehensible climate data and information products for climate-informed decision-making. IRI's capacity building centres around its Enhancing National Climate Services (ENACTS) initiative as well as other related activities such as curricula development and guidance on the development of National Frameworks for Climate Services (NFCS), among other activities. The ENACTS initiative is supported by multiple tools, which include the following: CDT for data organization, quality control, analysis, and visualizations; ADT for accessing, processing, and visualizing data from different types of AWS networks; PyCPT (python version of IRI's Climate Predictability Tool) for seasonal and sub-seasonal rainfall predictions; and IRI Data Library and Maproom for creating web-based interactive climate information products accessible by anybody.

Training of Trainers (ToT) On Enhancing National Climate Services (ENACTS) Maprooms for Users[17] [18]

---

[13] https://hdl.handle.net/10568/127065

[14] http://13.66.132.190:2600/

[15] https://youtu.be/u7-S6fdoCAE

[16] https://hdl.handle.net/10568/119764

[17] https://aiccra.cgiar.org/news/maprooms-turn-shapeless-climate-data-powerful-tools-action

[18] https://drive.google.com/drive/folders/1yIfsLMwx6qBXBnp1fgXTB8paHoXx9naV

'Maprooms' are freely accessible, online analytical and visualization tools to make climate data more usable. Building upon the success of these innovations led by AICCRA and its partners, they are now being tailored and scaled to support adaptation in Zambia. Developed through interaction between those who produce climate information—the national meteorological services—and those who ultimately use it, the Maprooms are demand-driven products designed to turn shapeless climate data into actionable information for decision-making. While other initiatives that bring climate information services to the local level do exist, the high-resolution products made available in the ENACTS maprooms represent the only global initiative that recognizes and leverages local, on-the-ground station data provided by national meteorological services.

The ENACTS maprooms combine this local data with satellite rainfall estimates and climate model reanalysis products to enable high-quality, spatially, and temporally complete datasets. Critically, these datasets are owned by the countries themselves, who can turn theoretical climate information into useful decision support products and services that support climate adaptation. As Tufa Dinku, Head of the ENACTS initiative at the International Research Institute for Climate and Society (IRI), explains:

"Not all information is created equal. Even when researchers and meteorological agencies strive to produce information that users need, significant barriers may remain which inhibit theoretically useful information from actually being usable. We need to ensure those who generate climate information and those who use it come together regularly to make sure this information is transformed into sector-relevant and decision-relevant products."

IPI: 1.3: Average 77%
- How satisfied are you with the **usefulness** of the following products/ services?
- How satisfied are you with the **accessibility** of the following products/ services in particular for gender/ youth responsiveness?
- How **relevant and useful** are the following products/ services in particular for gender / youth responsiveness?

	Usefulness		Accessibility		Relevant and Useful	
	Respondents (% of total respondents; number respondents)	Satisfaction Score	Respondents	Satisfaction Score	Respondents	Satisfaction Score

Internship innovation grant (I2G)/internship program	58% (N= 14)	83%	58% (N= 14)	86%	79% (N= 19)	92%
Accelerator grant (solar irrigations, aquaculture, seed varieties, small livestock, GESI)	50% (N= 12)	80%	46% (N= 11)	75%	63% (N= 15)	88%
Investment readiness by open capital advisories	42% (N= 10)	84%	46% (N= 11)	80%	54% (N= 13)	85%
Agdata hub	21% (N= 5)	76%	21% (N= 5)	72%	38% (N= 9)	84%
Flood and drought indicators	38% (N= 9)	71%	38% (N= 9)	73%	46% (N= 11)	84%
Installation and Configuration of Automatic Weather Station Data Tool (ADT) at Zambia Meteorological Department (ZMD)	38% (N= 9)	62%	38% (N= 9)	62%	42% (N= 10)	90%
Training on Automatic Weather Station Data Tool (ADT) at Zambia Meteorological Department (ZMD)	29% (N= 7)	63%	33% (N= 8)	65%	42% (N= 10)	92%
Advanced Training on Climate Data Tool (CDT)	33% (N= 8)	63%	33% (N= 8)	65%	46% (N= 11)	84%
Data Library Maintenance and Maproom Development Training with	29% (N= 7)	69%	33% (N= 8)	60%	42% (N= 10)	90%

Zambia Meteorological Department (ZMD)						
Training of Trainers (ToT) On Enhancing National Climate Services (ENACTS) Maprooms for Users	29% (N= 7)	69%	29% (N= 7)	74%	42% (N= 10)	92%
Average		72%		71%		88%
Average	77%					

Comments on satisfaction with the usefulness, accessibility and relevance, or explanations and justifications for rates below 3:

- *No relevant comments provided.*

IPI 2.4: Average 84%

	Effectiveness	
	Respondents	**Score**
Vision: The AICCRA project as our partner is e.g., aligned to my organizational goals	83% (N=20)	91% (4.6)
Leadership: The AICCRA project as our partner e.g., takes leadership and is engaged; actively participates; participates in additional fundraising	71% (N=17)	80% (4.0)
Accountability: The AICCRA project as our partner e.g., reports on time; openly shares results so that they can be used for decision-making; funds are spent on time	71% (N=17)	79% (3.9)
Communication and Collaboration: The AICCRA project as our partner e.g. communicates/ disseminates information; open access of	79% (N=19)	85% (4.3)

information		
Impact: The AICCRA project as our partner e.g., is involved in local context; policy making; scaling innovations; capacity building in local context	67% (N=16)	85% (4.3)
Average		84% (4.2)

Comments on Effectiveness, or explanations and justifications for rates below 3:

- AICCRA participation in additional fundraising is not communicated to all partners. In other words, not all partners are aware of fundraising initiatives
- There is need to constantly inform and share comms information within the partnership

IPI 3.3: Average 67%

16 out of 24 respondents (67%) indicated they have used 1 or more of these products/services. This includes two respondents that reported "Maybe" but were converted to "Yes" based on the examples they cited.

Examples include:

Internship innovation grant (I2G)/internship program

- The internship innovation (12G)
- The internship programs
- As an intern in luwingu
- Internship
- I am benefitting from the internship innovation grant. This has placed me with an SME.
- EDGE partnered with IWMI on the internship program ; from which IWMI has supported young women and men access work experience in the agricultural sector vis-a-vis EDGE SMEs
- Internship innovation grant(i2G) internship program, Aquaculture accelerator grant, Flood and droughts indicators, open capital

Accelerator grant (solar irrigations, aquaculture, seed varieties, small livestock, GESI)4

- Accelerators grant and investment readiness by open capital partners
- Using the Accelerator Grant, we are training and supporting fish farmers to be climate resilient by adopting climate smart Agricultural and Aquacultural practices.
- Seed varieties

- Dissemination of weather information to lead farmers who share the same with other farmers

Investment readiness by open capital advisories

- Mentorship training on investor readiness and submitted a grant proposal to USAID

Data Library Maintenance and Maproom Development Training with Zambia Meteorological Department (ZMD)

- Climate data library for ZMD
- Data library in my day today work activities

Other examples of use:

- Early warning advisories
- I used the information about Climate change in my daily activities and teaching other farmers about the importance of knowing about Climate change.

Final Comments

- The internship has been of great help to me and has helped grow my networking skills and business negotiations
- Will there be another round of support on Munda Make Over video productions in 2023 looking at the timing that current videos were produced? It would be of great impact if videos were produced starting NOW and follow through the growing season to capture different growth stages and yields of crops.
- More simplified information for accelerators so that can help farmers to easily adapt to climate change
- Are there employment opportunities with your organization after the internship?
- How long AICCRA will partner with us?
- How can you help DMMU set up a multi-hazard early warning system?
- Please continue with the work being done here. We really appreciate it a lot.

Conclusion

The results from the AICCRA Partnerships Survey confirm that the work of Year 2 met and exceeded target indicators. Providing confidence that the surveyed respondents are satisfied with the products and services of the project (IPI 1.3), effectiveness of the partnerships (IPI 2.4) and - due to a well-integrated capacity development plan - a growing percent of use of the cluster produced products and services has been documented. It is encouraging to observe an increase in stakeholder satisfaction with the use of AICCRA innovations (IPI 3.3) from 42% in 2021 to 58% in 2022. Comments from the partners also demonstrate their appreciation, and insights for improvements.

Annexes

Annex 1. Results for MARLO

Cluster	Indicator	Value	Narrative
Theme 1: Policies and Institutions	IPI 1.3	82%	Average satisfaction score of **5** products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	86%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	100%	Average satisfaction score of **5** products/services assessing **use**.
Theme 2: Climate-Smart Technologies	IPI 1.3	81%	Average satisfaction score of 7 products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	87%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	75%	Average satisfaction score of **7** products/services assessing **use**.
Theme 4: Climate Information Services	IPI 1.3	81%	Average of the 29 identified **Collaborative Services
	IPI 2.4	77%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.

Cluster	Indicator	Value	Narrative
	IPI 3.3	68%	Average "Use" score of the collaborating clusters: East Africa. Ethiopia, Ethiopia CIS, Ghana, Kenya, Mali, Senegal and Zambia.
East Africa	IPI 1.3	88%	Average satisfaction score of **5** products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	89%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	66%	Average satisfaction score of **5** products/services assessing **use**.
West Africa	IPI 1.3	82%	Average satisfaction score of **1** products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	83%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	86%	Average satisfaction score of **1** products/services assessing **use**.
Ethiopia Merged	IPI 1.3	82%	Average satisfaction score of 17 products/services assessing usefulness, accessibility and relevance - and merged results of Ethiopia, Ethiopia CIS and Ethiopia CSA
	IPI 2.4	84%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria averaged for Ethiopia, Ethiopia CIS and Ethiopia CSA
	IPI 3.3	56%	Average satisfaction score of 17 products/services assessing use -- and merged results of Ethiopia, Ethiopia CIS and Ethiopia CSA

Cluster	Indicator	Value	Narrative
Ethiopia	IPI 1.3	80%	Average satisfaction score of **10** products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	87%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	75%	Average satisfaction score of **10** products/services assessing **use**.
Ethiopia CIS	IPI 1.3	84%	Average satisfaction score of 4 products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	81%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	25%	Average satisfaction score of 4 products/services assessing **use**.
Ethiopia CSA	IPI 1.3	84%	Average satisfaction score of 3 products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	84%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	67%	Average satisfaction score of **3** products/services assessing **use**.
Ghana	IPI 1.3	81%	Average satisfaction score of **8** products/services assessing **usefulness, accessibility and relevance**

Cluster	Indicator	Value	Narrative
	IPI 2.4	90%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	91%	Average satisfaction score of **8** products/services assessing **use**.
Kenya	IPI 1.3	86%	Average satisfaction score of **18** products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	89%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	72%	Average satisfaction score of **18** products/services assessing **use**.
Mali	IPI 1.3	91%	Average satisfaction score of 10 products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	86%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	96%	Average satisfaction score of **10** products/services assessing **use**.
Senegal	IPI 1.3	73%	Average satisfaction score of **3** products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	79%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.

Cluster	Indicator	Value	Narrative
	IPI 3.3	55%	Average satisfaction score of **3** products/services assessing **use**.
Zambia	IPI 1.3	77%	Average satisfaction score of **10** products/services assessing **usefulness, accessibility and relevance**
	IPI 2.4	84%	Average score for Vision, Leadership, Accountability, Communication and Collaboration and Impact criteria.
	IPI 3.3	67%	Average satisfaction score of **10** products/services assessing **use**.

About AICCRA | Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA) is a project that helps deliver a climate-smart African future driven by science and innovation in agriculture. It is led by the Alliance of Bioversity International and CIAT and supported by a grant from the International Development Association (IDA) of the World Bank. Explore AICCRA's work at aiccra.cgiar.org

AICCRA is lead by: