

Cluster Title: Zambia: Activities led by IWMI

1. Description

Start Date	End Date	Management Liaison
Jan 2021	Dec 2023	AICCRA EA ILRI

Status	Lead Organization	Cluster Leader
On-going	CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>

The cluster is part of

Components(s)
PDO: Project Development Objective Indicators
CSA: 3. Validating Climate-Smart Agriculture Innovations through Piloting
KS: 1. Knowledge Generation and Sharing
PD: 2. Strengthening Partnerships for Delivery of Climate-Smart Innovations in Agriculture

Region(s)
EA-SA: Eastern and Southern Africa

Cluster Summary

The AICCRA-Zambia team develops services and innovations to help Zambian farmers, SMEs, public sector partners and communities safeguard their livelihoods in the face of climate change. In Zambia, climate change is threatening existing crop, fisheries, and livestock systems, impacting agriculture businesses, and undermining livelihoods. It is increasingly urgent for Zambian farmers, fishermen, and livestock keepers to be able to anticipate climate-related events and take appropriate preventative actions. The project works in the Southern, Eastern, Central, Northern, Lusaka, and Luapula Provinces of Zambia. AICCRA-Zambia aims to improve water, food, and energy security through access to knowledge, technologies, and decision-making tools to strengthen climate resilience in Zambia's agriculture and food systems in the face of a hotter and drier climate. AICCRA-Zambia works with Zambian partners by scaling actionable Climate Information Services (CIS) and Climate-Smart Agriculture (CSA) technologies such as sustainable financing for off-grid solar irrigation, integrated aquaculture-agriculture systems, addressing drought through climate-smart seed varieties, and diversified chicken/goat/legume systems, all of which are meant to promote gender and social inclusion. The project aims to strengthen local capacity by training intermediaries to communicate climate services; as well as by implementing a local internship program; providing accelerator grants for SMEs/entrepreneurs; and assessing challenges in the enabling environment for startups. It also seeks to inform policy and enhance investment plans by identifying suitable financing mechanisms, using fiscal tools to de-risk private sector investments in food value chains.

Cross-cutting dimension(s)

- Gender
- Youth

2. Partners

Partner #1 (Institution Lead)

Institution: CGIAR IWMI - International Water Management Institute

Responsibilities:

1. Overall project management of activities in Zambia
2. Co-development/implement of integrated ag data hub, baseline assessment coordination, monitoring and early warning for detection of drought and support in drought declaration process, cloud-based earth observation monitoring using open-access satellite data for flood and drought monitoring indicators, refine climate agro-services using AI, crowdsourcing and IoT, test best promising approaches for communicating climate services?
3. Partnerships for delivery: coordination of MSD, accelerator grant, internship program, on-going learning and capacity strengthening activities (entrepreneurs webinar series)
4. Supporting the uptake of CSA innovations through piloting: Co-design, test and deploy affordable and scalable CSA packages.

Country office(s): Sri Lanka, South Africa

Contact(s):

Type	Contact Person
Cluster Leader	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>
Cluster Coordinator	Minh, Thai <t.minh@cgiar.org>
Cluster Coordinator	Mcdonnell, Rachael <r.mcdonnell@cgiar.org>
Cluster Coordinator	Amarnath, Giriraj <a.giriraj@cgiar.org>
Cluster Coordinator	Pele, Winnie <w.pele@cgiar.org>
Cluster Coordinator	Mutenje, Munyaradzi <m.mutenje@cgiar.org>
Cluster Coordinator	Shrestha, Manisha <manisha.shrestha@cgiar.org>
Cluster Coordinator	Dahl, Hauke <h.dahl@cgiar.org>
Cluster Coordinator	Makungwe, Mirriam <m.makungwe@cgiar.org>
Partner	Mapedza, Everisto <e.mapedza@cgiar.org>
Partner	Nortje, Karen <k.nortje@cgiar.org>
Partner	Nohayi, Ngowenani <n.nohayi@cgiar.org>
Partner	Fakudze, Bhekiwe <bhekiwe.fakudze@cgiar.org>

Partner #2

Institution: CGIAR IITA - International Institute of Tropical Agriculture

Responsibilities:

1. Field trial data compilation and support - Collect baseline data against which to measure impact of climate services and identify climate related tipping points & risks in key agro-food systems in Zambia.
2. Co-design suite of tailored climate services for farmers in Zambia
3. Training and capacity enhancement of extension officers, input providers, development agents, private sector and media
4. Support national partners (ZMD, MoA, WARMA, ZNFU etc) and platforms to actively engage in regional forums
5. Limited technical support to incubators and also ?incubees?

Country office(s): Zambia

Contact(s):

Type	Contact Person
Cluster Coordinator	Gbegbelegbe, Sika <S.Gbegbelegbe@cgiar.org>
Cluster Coordinator	Chikoye, David <d.chikoye@cgiar.org>

Partner #3

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

Responsibilities:

1. Ag data hub development
2. Automated messaging system development
3. Assessment and inventory of existing and required climate services delivery models, including user-friendliness of communication channels, scope, relevance and visualization of climate services information, through iterative evaluation with farmers, extension services and other stakeholders
4. Baseline assessment support
5. Most effective communication that reach farmers at scale established with feedback to the ag hub
6. Capacity strengthening of local institutions - co-design training materials to communicate climate services by local actors
3. CSA technology packages identified and promoted for scaling.

Country office(s): Zimbabwe

Contact(s):

Type	Contact Person
Cluster Coordinator	Homann, S <s.homann@cgiar.org>
Cluster Coordinator	Dhulipala, Ram <r.dhulipala@cgiar.org>
Cluster Coordinator	Moyo, M <m.moyo@cgiar.org>
Cluster Coordinator	Ngwira, Amos <A.Ngwira@cgiar.org>

Partner #4

Institution: CGIAR WorldFish - WorldFish

Responsibilities:

1. Integration of aquaculture into ag data hub
2. Multi-stakeholder dialogue support - creation and strengthening of an AqFS multi-stakeholder working group to facilitate piloting of dissemination of agro-meteorological advisories to different actors in AFS
3. CSA package scaling - adoption and transfer of climate-smart and gender sensitive aquaculture production technologies and, adoption of tested low carbon technologies in capture fisheries and aquaculture value chains and;
3. Develop and promote climate-smart Fisheries Investment Plans
4. Monitoring, Evaluation and Learning - WorldFish will host the MEL component of the project

Country office(s): Malaysia, Uzbekistan

Contact(s):

Type	Contact Person
Cluster Coordinator	Kakwasha, Keagan <k.kakwasha@cgiar.org>
Cluster Coordinator	Siamudaala, Victor <v.siamudaala@cgiar.org>
Cluster Coordinator	Mudege, Netsayi <n.mudege@cgiar.org>

Partner #5

Institution: AICCRA Theme 4 COLUMBIA

Responsibilities:

1. Updating/enhancing location specific climate data
2. Enhancement of ZMD climate information online portal
3. Advancement of Next Generation climate forecast systems

Country office(s): United States

Contact(s):

Type	Contact Person
Cluster Coordinator	Zebiak, Stephen E. <steve@iri.columbia.edu>
Cluster Coordinator	Rose, Alison <arose@iri.columbia.edu>
Cluster Coordinator	Dinku, Tufa <tufa@iri.columbia.edu>

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Partner #6

Institution: AICCRA EA ILRI

Responsibilities:

Cross-country/regional coordination

Country office(s): Kenya

Contact(s):

Type	Contact Person
Cluster Coordinator	Solomon, Dawit <D.Solomon@cgiar.org>
Cluster Coordinator	Recha, John <j.recha@cgiar.org>
Cluster Coordinator	Radeny, Maren <M.Radeny@cgiar.org>

Partner #7

Institution: AICCRA Theme 3 ILRI - AICCRA Gender and Social Inclusion Leader (Lead by ILRI)

Responsibilities:

GESI related support to AICCRA Zambia team

Country office(s): United States

Contact(s):

Type	Contact Person
Cluster Coordinator	Huyer, Sophia <S.Huyer@CGIAR.ORG>
Cluster Coordinator	CHANANA, Nitya <n.chanana@cgiar.org>

Partner #8

Institution: Ministry of Agriculture (Zambia)

Responsibilities:

1. Local partner coordination
2. Capacity strengthening support
3. Stakeholder engagement support

Country office(s): Zambia

Contact(s):

Type	Contact Person
Partner	Chisakuta, Stanislaus <chisakutasm@yahoo.co.uk>
Partner	Mwanza, Morton <mortonmwanza@yahoo.com>

Partner #9

Institution: ZARI - Zambia Agriculture Research Institute

Responsibilities:

Enhance capacity to form innovative partnerships for sustained delivery of climate services in Eastern and Southern Africa.

Country office(s): Zambia

Contact(s):

Type	Contact Person
Partner	Siwale, Julius <siwalejulius@gmail.com>

Partner #10

Institution: Ministry of Fisheries and Livestock (Zambia)

Responsibilities:

Work with AICCRA partners to strengthen, refine and customize CIS and digital agro-advisories to support national fisheries digital extension systems.

Country office(s): Zambia

Contact(s):

Type	Contact Person
Partner	Phiri, Harris <harrisphr@live.com>

Partner #11

Institution: WARMA - Water Resources Management Authority

Responsibilities:

Hydrological climate services capacity strengthening; coordination of CIS with ZMD

Country office(s): Zambia

Contact(s):

Type	Contact Person
------	----------------

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Partner #12

Institution: ZMD - Zambia Meteorological Department

Responsibilities:

Platform host, beneficiary of capacity strengthening activities, implementing agent for CIS delivery

Country office(s): Zambia

Contact(s):

Type	Contact Person
Partner	Sinachikupo, Kenneth <sinachikupo@gmail.com>

Partner #13

Institution: ACDI-VOCA

Responsibilities:

Agribusiness network partner, providing access to SME network, finance and investment partnership

Country office(s): United States

Contact(s):

Type	Contact Person
Partner	Beauchesne, Jean-Frederic <jbeauchesne@acdivoca.org>

Partner #14

Institution: BongoHive

Responsibilities:

Agribusiness platform partner, matchmaking dialogue partner

Country office(s): Zambia

Contact(s):

Type	Contact Person
Partner	Muyangana, Simunza <simunza@bongohive.co.zm>

Partner #15

Institution: AICCRA Theme 3 Alliance - AICCRA Gender and Social Inclusion Leader (Lead by Alliance)

Responsibilities:

tbd

Country office(s): Italy

Contact(s):

Type	Contact Person
Partner	Huyer, Sophia <S.Huyer@CGIAR.ORG>

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Partner #16

Institution: AICCRA MT ALLIANCE

Responsibilities:

tbd

Country office(s): Italy

Contact(s):

Type	Contact Person
Partner	Rivera, Julian <j.rivera@cgiar.org>

Partner #17

Institution: COMACO - Community Markets for Conservation

Responsibilities:

Accelerator partner (CSA/CIS Bundle 4)

Country office(s): Zambia

Contact(s):

Type	Contact Person
------	----------------

Partner #18

Institution: MEDIAE - Media for education and development

Responsibilities:

Expansion of Shamba Shape-up into Zambia; scaling partner; profiling Accelerator partners and AICCRA Zambia's CIS/CSA tools in maiden season in Zambia.

Country office(s): United Kingdom, Kenya

Contact(s):

Type	Contact Person
------	----------------

Partner #19

Institution: University of Zambia

Responsibilities:

Innovation Internship Programme partner (facilitating internships, curriculum development, postgraduate research)

Country office(s): Zambia

Contact(s):

Type	Contact Person
------	----------------

Partner #20

Institution: Lupiya

Responsibilities:

Accelerator partner. Scaling partner in CIS/CSA bundle on off-grid solar irrigation technologies and micro-finance solutions

Country office(s): Zambia

Contact(s):

Type	Contact Person
------	----------------

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Partner #21

Institution: Eunimos Investment Limited

Responsibilities:

Accelerator partner; accelerating CIS/CSA innovations in integrated agriculture-aquaculture

Country office(s): Zambia

Contact(s):

Type	Contact Person
------	----------------

Partner #22

Institution: BWI - Better World Innovations

Responsibilities:

AICCRA Zambia Accelerator partner - best in class for GESI empowerment

Country office(s): Zambia

Contact(s):

Type	Contact Person
------	----------------

Partner #23

Institution: Open Capital

Responsibilities:

AICCRA Zambia Accelerator Commercialization Technical Assistance Service Provider

Country office(s): Kenya

Contact(s):

Type	Contact Person
------	----------------

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Partner #24

Institution: ACRE Africa - Agriculture and Climate Risk Enterprise

Responsibilities:

Flood and Drought Indicator Platform and insurance networking

Country office(s): Kenya

Contact(s):

Type	Contact Person
------	----------------

Partner #25

Institution: Lima Links

Responsibilities:

Accelerator Partner, digital scaling

Country office(s): Zambia

Contact(s):

Type	Contact Person
------	----------------

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

3. Locations

This cluster is not global

Cluster level	Latitude	Longitude	Name
Country			Zambia
Province	-13.133897	27.849332	Luapula
Province	-10.70971521317888	28.603627817531496	Northern
Province	-13.42220169910638 3	32.376746894617945	Eastern
Province	-16.72615949720828 3	26.756555424829394	Southern
Province	-16.72615949720828 3	26.756555424829394	Lusaka
Province	-16.72615949720828 3	26.756555424829394	Central

4. Indicators

4.1 Contribution to Performance Indicators

PDO - Indicator 2023: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

Target Value: 60.0

Overall Cluster Contribution to this indicator

Expected value: 1010

Narrative explaining the cluster's contribution to this indicator: AICCRA-Zambia has brought onboard strategic partners in governmental agencies including meteorological services, research and extension agencies, and multi-partner platforms to improve the access of enhanced CIS and validated CSA to next users. These organizations have mobilized next users for capacity strengthening in terms of identification and promotion of suitable CIS and CSA options for priority value chains. For example, the integrated ag data hub ensures greater access to CIS by AICCRA partners and stakeholders, while the AICCRA-Zambia Accelerator reached over 300,000 beneficiaries with validated CSA/CIS bundled solutions.

Contribution to Intermediate Targets

Target for 2021

PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

Narrative of the expected target: Various partners engaged in capacity strengthening, engagement, scaling activities through the multi-stakeholder dialogue space as well as the scaling of CSA bundles/enhanced delivery of CIS. List of partners indicated below, as well as many more engaged through the multi-stakeholder dialogue space.

Narrative of the achieved target: <Not defined>

Target for 2022

PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

Expected value: 17.00

Achieved value: 17

End-year target set by PMC: 4.00

Narrative of the expected target: By end 2022, AICCRA partners and stakeholders in Zambia will gain access to enhanced CIS and validated CSA primarily through the Accelerator and through targeted CIS products developed for key partners. Firstly, the 13 AICCRA-Zambia Accelerator partners will be in implementation mode, which will result in 4 CSA/CIS innovation bundles (solar, aqua, seeds, integrated) being implemented. Ag-data hub partners: SMART Zambia is going to be the host for the ag-data hub through ZIAMIS. AICCRA has developed flood and drought indicators to be accessed by WARMA; DMMU partnership with field data teams; and the Rallying Cry will host the webinar series.

Narrative of the achieved target: <Not defined>

Target for 2023

PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

Narrative of the expected target: In 2023, AICCRA Zambia focused on strengthening the capacity of existing partners such as the AICCRA Zambia Accelerator partners in accessing enhanced CIS and/or validated CSA technologies, and government partners with targeted CIS tools. The 16 Accelerator partners have concluded their technical support program and have received additional support to scale their CSA/CIS bundles through AICCRA and now further into the USAID-funded AID-I. Three of the 5 Accelerator bundles (1, 2, 3) have accessed investment readiness support by AICCRA partner, Open Capital Advisors. The lead partners for this were Lupiya (Bundle 1), Eunimos (Bundle 2), and Agova (bundle 3) - the investment readiness program provided vital support in helping Accelerator partners identify additional CIS/CSA innovations to scale and the scaling pathways to do so. In addition, the following government partners have continued their collaboration with AICCRA and have further benefited from additional CIS related tools before not reported : 1) ZMD (NFCS process commencement and CIS trainings by IRI conducted in Feb/March 2023); 2) WARMA (launched, hosted and operationalized the Drought Management System); and 3) SMART Zambia (hosting of the Agdatahub)

Narrative of the achieved target: In 2023, AICCRA Zambia increased the capacity of various local partners and stakeholders to access enhanced CIS and CSA technologies. A scaling vision was developed (D24533), providing a clear strategy on how AICCRA Zambia would reach the targeted audience. Notable among these partners are the ag-data hub partners. For instance, meteorological specialists from ZMD participated in the Africa-wide training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting (D24644) (see also OICR#3501). Furthermore, national agricultural research institutions also received technical support on climate risk management in agricultural extension (CRMAE) (D25405). A roadmap for the development of a National Framework for Weather, Water, and Climate Services for Zambia (NFWCS-ZM) was established through a multi-stakeholder consultation (D24454). These consultations enhanced the capacity of key government agencies in early warning system in Zambia. For example, a clear understanding of the gaps, leadership requirements, and structure of the NFWCS. Additionally, AICCRA Zambia provided technical support to the accelerator partners (see OICR#3498) on value chain specific CSA technologies. These efforts not only enhanced the capacity of private sector actors but also contributed to expanding the number of beneficiaries accessing enhanced CSA and CIS, aligning with AICCRA's development objective (PDO) 2.

Additional questions to Key Performance Indicator

- 1. Name the partners/stakeholders reported by end of 2023:

(1). The Africa-wide training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting (D24644) helped Zambia Metrological Department (ZMD) to learn enhanced climate information services, and ZMD is now able to provide weekly weather forecasts. (2). The technical support on climate risk management in agricultural extension (CRMAE) (D25405) enhanced the capacity of the Ministry of Agriculture; and (3) the University of Zambia providing a curriculum that responds to the needs of the agriculture industry in the face of the prevailing climate risks affecting the country. (4). The consultations on the development of a National Framework for Weather, Water, and Climate Services for Zambia (NFWCS-ZM) (D24454) enhanced the capacity of the Disaster Management and Mitigation Unit (DMMU), (5) the Zambia Meteorological Department (ZMD), (6) the Water Management Authority (WARMA), and line ministries in understanding the gaps, leadership requirements, and structure of the NFWCS.

- 2. Name the partners/stakeholders to be reported in following years, if known:

Not known

- 3. If there is a failure to achieve this target, give reasons:

There is no failure.

1. Name the partners/stakeholders reported by end of 2023(1). The Africa-wide training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting (D24644) helped Zambia Metrological Department (ZMD) to learn enhanced climate information services, and ZMD is now able to provide weekly weather forecasts. (2). The technical support on climate risk management in agricultural extension (CRMAE) (D25405) enhanced the capacity of the Ministry of Agriculture; and (3) the University of Zambia providing a curriculum that responds to the needs of the agriculture industry in the face of the prevailing climate risks affecting the country. (4). The consultations on the development of a National Framework for Weather, Water, and Climate Services for Zambia (NFWCS-ZM) (D24454) enhanced the capacity of the Disaster Management and Mitigation Unit (DMMU), (5) the Zambia Meteorological Department (ZMD), (6) the Water Management Authority (WARMA), and line ministries in understanding the gaps, leadership requirements, and structure of the NFWCS. 2. Name the partners/stakeholders to be reported in following years, if knownNot known3. If there is a failure to achieve this target, give reasonsThere is no failure.

KS - Indicator 2023: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Target Value: 90.0

Overall Cluster Contribution to this indicator

Expected value: 10

Narrative explaining the cluster's contribution to this indicator: Various knowledge products and decision-support tools and advisory services have been developed and disseminated including but not limited to: CIS training for SMEs, extension officers and farmers; design and implementation of the integrated Agdata hub; implementation of the CSA/CIS bundles; Climate Data Tool (CDT); NextGen; ENACTS maproom; IRI Data Library; flood and drought indicators used by WARMA, the Zambia drought management system used by WARMA,

Contribution to Intermediate Targets

Target for 2021

IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Narrative of the expected target: In 2021, we will lay the groundwork for delivery of DSS tools and advisory services through the submission of several intermediary deliverable: 1. Development of drought and flood indicators; 2. Development of integrated framework for CIS products to be included in the AgData Hub.

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Expected value: 7.00

Achieved value: 9

End-year target set by PMC: 4.00

Narrative of the expected target: SMART Zambia, a national institution has been identified to host the ag data hub and stakeholders agreed that it should host CIS advisories for various value chains; AICCRA Zambia have started collecting CIS data from reference ponds for 6 months and it will be used to create advisory information for the ag-data hub under the aquaculture value chain; ZMD have had advanced training on the latest version of IRI's climate data tool; Accelerator bundles have been identified to facilitate adoption of advisory tools integrated in ag data hub; the flood and drought indicators work has been taken up by WARMA.

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Narrative of the expected target: To date, the following two climate-relevant knowledge products, decision-making tools and advisory services have been created/enhanced: 1.. Off-grid solar credit scoring tool (<https://www.lupiya.com/pages/business-clients/agri-loan>) (completed) 2. D25102 Tilapia climate advisory decision tree: link to the prototype <https://hdl.handle.net/20.500.12348/5368> This will be completed this year, 2023. 3. D24535 Strengthening of national drought risk strategy (and develop district level drought contingency plan to mitigate drought risks as a case study) (Pending). 4. iSAT aquaculture tool (ag data hub plugin) - to be completed by September 2023

Narrative of the achieved target: AICCRA Zambia developed two decision support tools. These are: 1. D25102 Tilapia Decision Support Tool (<https://hdl.handle.net/10568/137809>) 2. D24658 Online tool for flood and drought indicators to guide in risk management strategies In addition, several knowledge products were developed and disseminated, and these include: 3. D24518 Paper on the participatory selection of key value chains through stakeholder engagement of best-bet CSA options for smallholder farmers in the agro-ecological zones of Zambia 4. D24521 Internship Tracer Survey Report Internship Innovation Grant (I2G) 5. D24535 The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture (CSA) and CIS into the Curriculum of Zambian Higher Education Institutions 6. D26019 Africa-Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting and Climate Data Analysis and Visualization Tools 7. D24575 AICCRA I2G Open Innovation Challenge: Internship and Grant Opportunity: Post Sprint and Ideation Lab Report 8. D24638 Addition of climate variables to ZMD's gridded climate datasets 9. D24474 Integrated, economically viable CSA technology packages co-designed, piloted and up-scaled for high-potential areas, reaching out to at least 50,000 farmers

Additional questions to Key Performance Indicator

- 1. Name the knowledge products/decision making tools and advisory services reported by end of 2023:
D25102 Tilapia Decision Support Tool (<https://hdl.handle.net/10568/137809>) D24658 Online tool for flood and drought indicators to guide in risk management strategies D24518 Paper on the participatory selection of key value chains through stakeholder engagement of best-bet CSA options for smallholder farmers in the agro-ecological zones of Zambia D24521 Internship Tracer Survey Report Internship Innovation Grant (I2G) D24535 The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture (CSA) and CIS into the Curriculum of Zambian Higher Education Institutions D26019 Africa-Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting and Climate Data Analysis and Visualization Tools D24575 AICCRA I2G Open Innovation Challenge: Internship and Grant Opportunity: Post Sprint and Ideation Lab Report D24638 Addition of climate variables to ZMD's gridded climate datasets D24474 Integrated, economically viable CSA technology packages co-designed, piloted and up-scaled for high-potential areas, reaching out to at least 50,000 farmers

- 2. Name the knowledge products/decision making tools and advisory services to be reported in following years, if known:
Integration of aquaculture advisory tool into iSAT

- 3. Indicate how gender and social inclusion issues were dealt with :
Gender and social inclusion (GSI) considerations were integrated during the development of the decision support tools and knowledge products. This involved ensuring that the data used in the design of the advisory tools took GSI issues into account. For example, GSI questions were included in the data collection tools. Furthermore, gender balance was maintained in the sample sizes and literature review, and the recruitment of enumerators participating in data collection also considered GSI issues. In specific instances, like the Internship Innovation Challenge, female students were actively encouraged to apply and participate. Notably, most of the scientists spearheading these activities were also female, serving as inspirational figures for their fellow counterparts to embrace leadership roles.

- 4. If there is a failure to achieve this target, give reason:
There is no failure. The project has delivered two decision support tools and several knowledge products as shown in the deliverables mapped to this indicator.
1. Name the knowledge products/decision making tools and advisory services reported by end of 2023
D25102 Tilapia Decision Support Tool (<https://hdl.handle.net/10568/137809>) D24658 Online tool for flood and drought indicators to guide in risk management strategies D24518 Paper on the participatory selection of key value chains through stakeholder engagement of best-bet CSA options for smallholder farmers in the agro-ecological zones of Zambia D24521 Internship Tracer Survey Report Internship Innovation Grant (I2G) D24535 The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture (CSA) and CIS into the Curriculum of Zambian Higher Education Institutions D26019 Africa-Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting and Climate Data Analysis and Visualization Tools D24575 AICCRA I2G Open Innovation Challenge: Internship and Grant Opportunity: Post Sprint and Ideation Lab Report D24638 Addition of climate variables to ZMD's gridded climate datasets D24474 Integrated, economically viable CSA technology packages co-designed, piloted and up-scaled for high-potential areas, reaching out to at least 50,000 farmers
2. Name the knowledge products/decision making tools and advisory services to be reported in following years, if known
Integration of aquaculture advisory tool into iSAT
3. Indicate how gender and social inclusion issues were dealt with
Gender and social inclusion (GSI) considerations were integrated during the development of the decision support tools and knowledge products. This involved ensuring that the data used in the design of the advisory tools took GSI issues into account. For example, GSI questions were included in the data collection tools. Furthermore, gender balance was maintained in the sample sizes and literature review, and the recruitment of enumerators participating in data collection also considered GSI issues. In specific instances, like the Internship Innovation Challenge, female students were actively encouraged to apply and participate. Notably, most of the scientists spearheading these activities were also female, serving as

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

inspirational figures for their fellow counterparts to embrace leadership roles.4. If there is a failure to achieve this target, give reasonThere is no failure. The project has delivered two decision support tools and several knowledge products as shown in the deliverables mapped to this indicator.

KS - Indicator 2023: IPI 1.2: AICCRA-funded peer-reviewed research papers made available in open access format (number) (CGIAR CRI) (disaggregated by papers that significantly examine gender and social inclusion dimensions)

Target Value: 32.0

Overall Cluster Contribution to this indicator

Expected value: 5

Narrative explaining the cluster's contribution to this indicator: AICCRA-Zambia will document stakeholders' needs and analyze determinants and readiness to adopt/use CIS and CSA technologies. The investigations will strongly address and examine gender and social inclusion dimensions. Peer-reviewed research papers will be made available in open access format and will include a range of formats, from journal articles, to working papers, conference papers etc. Several will be further translated into more user-friendly formats: infographics, policy briefs, brochures, outcome notes etc.

Contribution to Intermediate Targets

Target for 2021

IPI 1.2: AICCRA-funded peer-reviewed research papers made available in open access format (number) (CGIAR CRI) (disaggregated by papers that significantly examine gender and social inclusion dimensions)

Narrative of the expected target: A landscape scan of the Zambia agribusiness ecosystem (including multi-stakeholder/partner initiatives, platforms etc) is currently being conducted. This will inform the publication to be developed later this year i.e. 3. paper on the participatory selection of key value chains . In addition a CIS survey as well as a baseline survey are also being developed to inform first year review papers as well as planned activities.

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 1.2: AICCRA-funded peer-reviewed research papers made available in open access format (number) (CGIAR CRI) (disaggregated by papers that significantly examine gender and social inclusion dimensions)

Expected value: 3.00

Achieved value: 2

End-year target set by PMC: 2.00

Narrative of the expected target: Two journal articles are expected to be delivered by the end of 2022: one on research to action, and one on bundled CSA/CIS solutions (including issues pertaining to the sustainability and local ownership of ag data hubs). The GESI Report, which has been finalised in report form, will be converted into a peer-review journal article following some reworking.

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 1.2: AICCRA-funded peer-reviewed research papers made available in open access format (number) (CGIAR CRI) (disaggregated by papers that significantly examine gender and social inclusion dimensions)

Narrative of the expected target: Two journal articles are planned for 2023: D24575 Identification of suitable financing mechanisms to de-risk private sector investments in food value chains Journal Article (peer Reviewed) D24521 Paper on the climate-smartness of innovative CSA options with low/medium adoption potential to accelerate scaling Journal Article (peer Reviewed)

Narrative of the achieved target: Several draft manuscripts has been completed and are now being submitted for publication (ine arly 2024), and a presentation of the research findings from D24453 Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia was conducted during the World Aquaculture Society.

Additional questions to Key Performance Indicator

- 1. Name the papers reported by end of 2023:

Draft manuscripts have been developed: D24518 Paper, focusing on the participatory selection of key value chains through stakeholder engagement for best-bet climate-smart agriculture (CSA) options for smallholder farmers in the agro-ecological zones of Zambia. A presentation of the research findings from D24453 Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia was conducted during the World Aquaculture Society.

- 2. Name the papers to be reported in following years, if known:

-Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia -Paper on the participatory selection of key value chains through stakeholder engagement of best-bet CSA options for smallholder farmers in the agro-ecological zones of Zambia.

- 3. Indicate how gender and social inclusion issues were dealt with:

Gender Equality and Social Inclusion (GESI) considerations were incorporated by ensuring that the data collection process encompassed issues that specifically impacted vulnerable groups, including women. This approach aimed to capture and address the unique challenges and perspectives of women.

- 4. If there is a failure to achieve this target, give reason :

Several manuscripts have been completed however given the unique agribusiness/scaling nature of them, finding suitable journals has been challenging but we hope to get them submitted in Q1 of 2024.

1. Name the papers reported by end of 2023Draft manuscripts have been developed: D24518 Paper, focusing on the participatory selection of key value chains through stakeholder engagement for best-bet climate-smart agriculture (CSA) options for smallholder farmers in the agro-ecological zones of Zambia. A presentation of the research findings from D24453 Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia was conducted during the World Aquaculture Society. 2. Name the papers to be reported in following years, if known-Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia -Paper on the participatory selection of key value chains through stakeholder engagement of best-bet CSA options for smallholder farmers in the agro-ecological zones of Zambia.3. Indicate how gender and social inclusion issues were dealt withGender Equality and Social Inclusion (GESI) considerations were incorporated by ensuring that the data collection process encompassed issues that specifically impacted vulnerable groups, including women. This approach aimed to capture and address the unique challenges and perspectives of women.4. If there is a failure to achieve this target, give reason Several manuscripts have been completed however given the unique agribusiness/scaling nature of them, finding suitable journals has been challenging but we hope to get them submitted in Q1 of 2024.

KS - Indicator 2023: 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 express (%)

Target Value: 75.0

Overall Cluster Contribution to this indicator

Expected value: 75

Narrative explaining the cluster's contribution to this indicator: Building on the 2021 satisfactory survey, AICCRA Zambia will carry out another satisfaction survey and the following are some of the products that will be assessed CIS training for SMEs, extension officers and farmers; design and implementation of the integrated Agdata hub; implementation of the CSA/CIS bundles; Climate Data Tool (CDT); NextGen; ENACTS maproom; IRI Data Library; flood and drought indicators hosted by WARMA and ZMD.

Contribution to Intermediate Targets

Target for 2021

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 express (%)

Narrative of the expected target: No expected contribution to this target in 2021. Also, due to delays in appointment of safeguard specialists, baseline survey will need to be postponed to after the rainy season i.e. March 2022.

Narrative of the achieved target: <Not defined>

Target for 2022

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 express (%)

Expected value: 75.00

Achieved value: 77

End-year target set by PMC: 0.00

Narrative of the expected target: The first satisfaction survey on the quality/usefulness of the specific tools and products by partners and stakeholders was done in 2021. Zambia recorded 73% satisfaction rating for IPI 1.3. In 2022, AICCRA Zambia will aim for 75% client satisfaction rate

Narrative of the achieved target: <Not defined>

Target for 2023

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 express (%)

Narrative of the expected target: The first satisfaction survey on the quality/usefulness of the specific tools and products by partners and stakeholders was done in 2021. Zambia recorded 73% satisfaction rating for IPI 1.3. In 2022, AICCRA Zambia received a client satisfaction rate of 77%. We hope to maintain that rate in 2023.

Narrative of the achieved target: 75% of the 18 participants were satisfied with the accessibility and usefulness of the following products and services: Sustainable finance solutions for off-grid solar irrigation technologies Integrated aquaculture agriculture (IAAs) system Better management practices for pond aquaculture Climate smart seed varieties for soybeans Plantcatalyst Internship Innovation Grant (I2G) gliricidia sepium (agro-forestry) IRI's Automatic Weather Station (AWS) Climate Data Tool (CDT) Weather Station Data Tool

Additional questions to Key Performance Indicator

<Not Provided>

PDO - Indicator 2023: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Target Value: 1500000.0

Overall Cluster Contribution to this indicator

Expected value: 300000

Narrative explaining the cluster's contribution to this indicator: Beneficiaries are accounted for under several mechanisms in the AICCRA Zambia portfolio including: 1) the AICCRA Zambia Accelerator and # of beneficiaries reached through the Accelerator partners; 2) # of viewers watching the Munda Makeover television show that have accessed the various CSA/CIS innovations profiled on the show; 3) # of people reached through the translation of Munda Makeover into multiple languages and conversion of the content into local radio segments and 4) the number of listeners engaged through the COMACO Farm Talk radio and engagement program. Contributions to GESI are integrated as an organic element in most major activities.

Contribution to Intermediate Targets

Target for 2021

PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Narrative of the expected target: Through the multi-stakeholder dialogue space, and engagement with SMEs (info sessions, match-making dialogues, etc), the Zambia cluster seeks to provide engagement opportunities for beneficiaries to access CIS and CSA innovations. This year, 122 beneficiaries have been engaged, namely SME stakeholders during the Information Sessions that provided them with the different CSA/CIS technologies available to them under AICCRA in the Accelerator Grant, and more broadly still, agro-advisory services made available through the ag data hub and various communication channels (Apps, Drought Bulletins, Drought Contingency Plans etc).

Narrative of the achieved target: <Not defined>

Target for 2022

PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Expected value: 195400.00

Achieved value: 118746

End-year target set by PMC: 85000.00

Narrative of the expected target: AICCRA Zambia seeks to reach 65% (195,400 beneficiaries) of the overall target beneficiaries (300,000) from the available AICCRA Zambia Accelerator Partner beneficiaries by the end of 2022. Each Accelerator partner consortium has been contracted to scale an integrated CSA/CIS package/bundle by reaching 75 000 beneficiaries each. To support them to reach these numbers they have been given scaling grants of USD 50 000.00 each: 44,400 sustainable financing for off-grid solar irrigation; 30,000 integrated aquaculture-agriculture systems; 75,000 on climate smart seed varieties; and 46,000 on diversified chicken and goat-legume systems. Deliverables: 1. D24523 2. D24530 3. New: D24978 - Beneficiary Report

Narrative of the achieved target: <Not defined>

Target for 2023

PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Narrative of the expected target: In 2023, the Accelerators partners reached 264,537 (47% women) beneficiaries as follows: Bundle 1. reached 104,500 farmers through off-grid solar irrigation equipment in the face of climate change. https://www.youtube.com/watch?v=_4_nWQUf2R4
<https://www.youtube.com/watch?v=SB6vYVYg5nk> Bundle 3. reached 19,000 farmers to access climate-smart seed varieties for groundnut, maize, and soybean value chains, as well as the use of plant catalyst products. https://www.youtube.com/watch?v=nj_c1wF9Lf0
https://www.youtube.com/watch?v=wu_IHHzrTRv8 Bundle 4. reached 133,653 who have adopted CSA technologies. <https://www.youtube.com/watch?v=YUn64mcEEdk>
<https://www.youtube.com/watch?v=filVUBz4ddQ> Bundle 5 (GESI) reached 7,384 smallholder farmers <https://www.youtube.com/watch?v=HfZDpoWYFVM> In addition, in 2023 we partnered with media partners to disseminate CSA/CIS to many more farmers. While these numbers are being validated, by the end of 2023, we will be able to report an additional 1.32 million beneficiaries reached through various media: 1. Munda Makeover television show - est 202,972 farmers reached with 654 751 total viewers out of 3.7 million who have access to tv in the country. 3 out of 10 farmers with access to TV have watched MMO. 2. Munda Makeover radio show - number of beneficiaries tbc based on total radio listenership of 5 million across 7 local radio stations. 3. COMACO Farm Talk -1.12 million small scale farmers sensitized and received training via radio through COMACO Farm Talk.

Narrative of the achieved target: In 2023, AICCRA Zambia achieved a significant milestone by reaching a total of 2,315,737 smallholder farmer beneficiaries who are increasingly accessing enhanced Climate Information Services (CIS) and/or Climate-Smart Agriculture (CSA) technologies. Among these beneficiaries, 264,537 (47% women) were directly reached by the accelerator partners, while 2,051,200 were reached through the impactful initiatives of Munda Make Over and COMACO Farm Talk. The dissemination channels employed encompass various approaches, ranging from the direct provision of climate-smart agriculture (CSA) inputs to digital advisories delivered through platforms such as the Harvesti app. Weekly digitized CSA Climate Information Services (CIS) messages were issued via WhatsApp by National Agricultural Research Systems (NARs). COMACO Farm Talk and Munda Make Over served as vital communication channels. The combination of direct provision, digital advisories, and media initiatives has proven to be a highly impactful and inclusive approach to engaging and educating farmers across Zambia.

Additional questions to Key Performance Indicator

- 1. Achieved % female (in the achieved number):

47

- 2. Indicate how gender and social inclusion issues were dealt with:

The project made deliberate efforts to establish a GESI bundle that focused on providing women with access to CIS and/or CSA technologies. Apart from that, the AICCRA Accelerator SMEs were given targets to integrate women into their business models and to deliberately prioritize women in their extension service delivery. Various gender-tailored workshops were conducted to empower Accelerator Partners and SMEs with the necessary skills and knowledge to effectively engage and cater to the needs of women, ensuring that they are included rather than discriminated against in the adoption of climate-related technologies. A significant milestone has been achieved in promoting gender inclusivity within the AICCRA accelerator program in Zambia, with 47% of the smallholder farmer beneficiaries being women. This underscores the project's commitment to ensuring that women actively participate and benefit from the various interventions implemented under the accelerator program.

- 3. If there is a failure to achieve this target, give reasons :

There is no failure.

1. Achieved % female (in the achieved number)472. Indicate how gender and social inclusion issues were dealt withThe project made deliberate efforts to establish a GESI bundle that focused on providing women with access to CIS and/or CSA technologies. Apart from that, the AICCRA Accelerator SMEs were given targets to integrate women into their business models and to deliberately prioritize women in their extension service delivery. Various gender-tailored workshops were conducted to empower Accelerator Partners and SMEs with the necessary skills and knowledge to effectively engage and cater to the needs of women, ensuring that they are included rather than discriminated against in the adoption of climate-related technologies. A significant milestone has been achieved in promoting gender inclusivity within the AICCRA accelerator program in Zambia, with 47% of the smallholder farmer beneficiaries being women. This underscores the project's commitment to ensuring that women actively participate and benefit from the various interventions implemented under the accelerator program.3. If there is a failure to achieve this target, give reasons There is no failure.

PD - Indicator 2023: IPI 2.1: Climate advisory platforms/hubs launched/ strengthened, including their focus on gender and social inclusion (number)

Target Value: 8.0

Overall Cluster Contribution to this indicator

Expected value: 1

Narrative explaining the cluster's contribution to this indicator: AICCRA-Zambia will develop an integrated ag-data hub in Zambia using the iSAT and DEA data cube. This ag-data hub will be used for disseminating advisories to farmers in Zambia and will include climate information services (CIS) and water storage services and cloud-based visualization and analytical tools and dissemination systems, including delivery partnerships (e.g., institutional, ICT, media etc.) for early warning, CIS and climate-informed digital ag-advisories to reduce risks along agri-food systems and its respective actors.

Contribution to Intermediate Targets

Target for 2021

IPI 2.1: Climate advisory platforms/hubs launched/ strengthened, including their focus on gender and social inclusion (number)

Narrative of the expected target: In 2021, the objective is to develop the specific user needs (as per local partner preferences), a framework for the integration of different CIS products/dashboards developed by different partners. These outputs will be made available in open access format as far as possible, and disaggregation by papers that significantly examine gender and social inclusion dimensions. Several installation updates are also in progress by IRI of the Zambia Met Department.

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 2.1: Climate advisory platforms/hubs launched/ strengthened, including their focus on gender and social inclusion (number)

Expected value: 1.00

Achieved value: 1

End-year target set by PMC: 1.00

Narrative of the expected target: One integrated ag data hub (D24158) will be delivered in 2022 using existing CIS platforms which will be based on the baseline and a participatory co-development process feeding into its design the inputs from partners and stakeholders of its usefulness, sustainability and local ownership. A preparatory GESI study will inform the development of the ag data hub in terms of its design elements, usability and dissemination strategy. It will further serve to integrate existing tools and products from AICCRA Zambia partners (IWMI, ICRISAT and IRI).

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 2.1: Climate advisory platforms/hubs launched/ strengthened, including their focus on gender and social inclusion (number)

Narrative of the expected target: AICCRA Zambia launched an integrated AgDataHub and SMART Zambia was identified as a key institution to host the ag data hub which will be an information and data repository for various agriculture value chains in Zambia. In addition, the AICCRA Zambia Multi-stakeholder Dialogue platform was also launched as a learning and engagement platform on CIS/CSA in Zambia with a focus also on gender and social inclusion. Building on a prototype of the Agdatahub that was developed in 2022 (<http://3.16.201.127/zambia/>), the AICCRA Zambia team is working closely with Smart Zambia Institute (SZI) to put the server in place to host the Agdatahub and also to integrate climate information with agricultural information for automated message generation at weekly intervals through the season from October to April in the following years.

Narrative of the achieved target: In 2023, the AgDataHub was significantly improved by adding seasonal and sub-seasonal forecasts to the datahub. Additionally, the AgDataHub was also integrated with soil data from ISRIC and satellite imagery analysis from FAO's GIEWS system. More importantly, the team collaborated with Smart Zambia to agree on a new user interface (UI) that aligns with the SZI branding guidelines and implemented this new UI successfully. The team has been in the process of migrating the AgDataHub to SZI's data centers since the first week of December. SZI was able to make their data center access available only since last week of November, and the team was engaged in the migration of AgDataHub in Dec 2023. The latest version of the AgDataHub is available at ZIAMIS-Zambia (<http://3.138.167.184/ziamis/index.html>) (see also D24658).

Additional questions to Key Performance Indicator

- 1. Name the advisory platforms/hubs reported by end of 2023:
AgData Hub
 - 2. Name the advisory platforms/hubs to be reported in following years, if known:
Improved version of the AgData Hub
 - 3. Indicate how gender and social inclusion issues were dealt with :
During stakeholder engagement sessions, efforts were made to include diverse perspectives, ensuring that the voices of marginalized groups were heard. This approach contributed to the inclusion of CIS for value chains that were widely farmed by women, such as groundnuts and fish.
 - 4. If there is a failure to achieve this target, give reason :
The focus has been on an integrated agdata hub hence there is no failure
1. Name the advisory platforms/hubs reported by end of 2023
AgData Hub
2. Name the advisory platforms/hubs to be reported in following years, if known
Improved version of the AgData Hub
3. Indicate how gender and social inclusion issues were dealt with
During stakeholder engagement sessions, efforts were made to include diverse perspectives, ensuring that the voices of marginalized groups were heard. This approach contributed to the inclusion of CIS for value chains that were widely farmed by women, such as groundnuts and fish.
4. If there is a failure to achieve this target, give reason
The focus has been on an integrated agdata hub hence there is no failure

PD - Indicator 2023: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

Target Value: 35.0

Overall Cluster Contribution to this indicator

Expected value: 5

Narrative explaining the cluster's contribution to this indicator: Partnerships to be reported on under this indicator include those engaged in the Innovation Internship Grant (I2G) program, the Communications theme, and other key activities not reported on under PDO 1.

Contribution to Intermediate Targets

Target for 2021

IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

Narrative of the expected target: Letter of Intent (LoI) signed between IWMI and ACDI/Voca. ACDI-Voca have been contracted by USAID in Zambia to run a USD 14 million project called EDGE, which we hope to partner with. No funds will exchange hands between IWMI and ACDI/Voca. Rather, the partnership is one to leverage the different institutional strengths we have: AICCRA accesses EDGE's SME cohort to advertise, validate and inform our CSA bundles, and EDGE's SMEs benefits from AICCRA's training, dialogue and engagement opportunities to support their SMEs.

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

Expected value: 6.00

Achieved value: 7

End-year target set by PMC: 6.00

Narrative of the expected target: A concept note for establishment of the internship program (D24505) has been developed, and AICCRA Zambia has engaged with partners such as Kalumbila minerals Ltd, Mopani copper mine Plc, Copperbelt University, University of Zambia, Mulungushi University, ACDI/Voca and BongoHive. Partnership agreements are being finalized with UNZA, BongoHive and ACDI/Voca for 2022. In addition, more partners have been developed under the D24508 (internship multi-media campaigns) and these include Shamba Shape Up expansion into Zambia, Agricomm, NAIS for enhanced delivery of CIS/CSA to other provinces/in other languages, and Accelerator partners: COMACO and Kasama Arts Theatre.

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

Narrative of the expected target: In 2022, the AICCRA Zambia cluster reported new partnerships with BongoHive, ACDI/Voca, and UNZA as we launched the Innovation and Internship Program (I2G) to strengthen the agribusiness pipeline through internships and ideation/hackathons. We also entered into partnerships with communication partners: Mediae, Agricomm and NAIS to enhance the dissemination of our CSA/CIS bundles through these various media e.g. television, local/community radio and social media. In 2023, we have strengthened these partnerships through curriculum development, research support, and incubation activities with the I2G partners, and by successfully concluding the first season of Munda Makeover with Mediae, branching out from the NAIS translations of MMO to community radio to COMACO Farm Talk reaching hundreds of thousands more farmers (numbers to be validated still so not reported in PDO 2 yet). We are also entering into new partnerships with GART and ZaWARD as indicated below.

Narrative of the achieved target: In 2023, AICCRA Zambia developed no new partnerships. Instead, our focus was on strengthening existing partnerships cultivated in previous years rather than establishing new ones. Various strategic activities were undertaken to strengthen local partners, enhancing their capabilities in delivering advanced CIS and CSA technologies to farmers who need them most. One significant initiative was the launch of a cutting-edge drought monitoring system for Zambia (D24530), known as the Zambia Drought Monitoring System (ZADMS). This tool provides real-time data to equip the Zambia Meteorological Department, WARMA, DMMU, and many other partners in the ministry of green economy with tools to effectively manage and respond to drought conditions. The online weather-monitoring system enhances their ability to make informed decisions and implement timely interventions, and so far ZMD has been able to issue daily and weekly climate information bulletins. Additionally, a nationwide curriculum capacity needs assessment was conducted in collaboration with the UNZA (D24535). This assessment aims to strengthen the educational framework related to climate-smart agriculture, ensuring that the curriculum aligns with the evolving needs of the sector. Several other strategic activities were implemented to strengthen partnerships and empower local institutions, including farmers and the private sector.

Additional questions to Key Performance Indicator

- 1. Name the partnerships reported by end of 2023:

Existing partnerships strengthened with new activities 1. University of Zambia (UNZA) needs assessment conducted that paves the way for the curriculum development program and also receives technical support for CIS/CSA training (D24535) 2. The partnership with ZMD was enhanced through the Africa-wide training on the Improved NextGen Approach (PyCPT2.5) (D24644), which strengthened ZMD's capacity to provide enhanced climate information services. 3. Water Resources Management Authority (WARMA): partnership enhanced due to developments with the NFWCS process (D24530) 4. Disaster Management and Mitigation Unit (DMMU): partnership enhanced as a result of ongoing training on climate risks and development of NFWCS (D24530) 5. BongoHive: partnership enhanced as a result of exposure to CSA/CIS agribusiness and scaling partners through multiple engagements and participation in I2G but also investment roundtables (D24575) 6. Mediae: partnership enhanced because of scientific advisory committee established to quality control (D25553) 7. COMACO Farm Talk 8. Smart Zambia (D24530).

- 2. Name the partnerships to be reported in following years, if known:

Not known

- 3. If there is a failure to achieve this target, give reason :

There is no failure.

1. Name the partnerships reported by end of 2023 Existing partnerships strengthened with new activities 1. University of Zambia (UNZA) needs assessment conducted that paves the way for the curriculum development program and also receives technical support for CIS/CSA training (D24535) 2. The partnership with ZMD was enhanced through the Africa-wide training on the Improved NextGen Approach (PyCPT2.5) (D24644), which strengthened ZMD's capacity to provide enhanced climate information services. 3. Water Resources Management Authority (WARMA): partnership enhanced due to developments with the NFWCS process (D24530) 4. Disaster Management and Mitigation Unit (DMMU): partnership enhanced as a result of ongoing training on climate risks and development of NFWCS (D24530) 5. BongoHive: partnership enhanced as a result of exposure to CSA/CIS agribusiness and scaling partners through multiple engagements and participation in I2G but also investment roundtables (D24575) 6. Mediae: partnership enhanced because of scientific advisory committee established to quality control (D25553) 7. COMACO Farm Talk 8. Smart Zambia (D24530). 2. Name the partnerships to be reported in following years, if known Not known 3. If there is a failure to achieve this target, give reason There is no failure.

PD - Indicator 2023: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women))

Target Value: 4000.0

Overall Cluster Contribution to this indicator

Expected value: 500

Narrative explaining the cluster's contribution to this indicator: AICCRA-Zambia will engage project partners and end-users including youth and women. The project will identify the needs and priorities for capacity building and organize a series of yearly stakeholder consultations through the multi-stakeholder dialogue space. Several training mechanisms are included in the project from training workshops/lectures, to the internship/learning program and the accelerator grant mechanism as well as the webinar series for women and youth-owned/led agribusiness SMEs.

Contribution to Intermediate Targets

Target for 2021

IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women))

Narrative of the expected target: No training events have been conducted to date under the AICCRA-Zambia cluster. However, several training activities are still planned by IRI including: Training of ZMD staff on generation and delivery of maproom products; Training of ZMD staff on the latest version of IRI's Climate Data Tool (CDT)

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women))

Expected value: 200.00

Achieved value: 251

End-year target set by PMC: 200.00

Narrative of the expected target: This will largely be achieved through the 1) multi-stakeholder dialogue events; 2) the internship program; 3) the accelerator grant; 4) the on-going CIS trainings conducted by IRI; and 5) the webinar series for women and youth-owned agribusiness SMEs.

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

Narrative of the expected target: 1448 (620 women, 239 youth) people have been engaged in various capacity development activities using the multistakeholder consultative dialogue on climate risk management in agricultural extension (CRMAE); the Chitetezo Cooperatives Federation in Eastern Zambia; launch of the Zambia drought management system and technical session on drought management; and the roundtable convening on women and youth SMEs in agribusiness.

Narrative of the achieved target: 1,567 people (654 women and 263 youth) were engaged in various capacity development activities, particularly the following: • D25447 GSI Webinar on Engendering Capacity Development: Lessons from Zambia • D26019 Africa-Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting and Climate Data Analysis and Visualization Tools • D24641 Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia • D25405 Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia • D25431 Roundtable Convening on Women and Youth SMEs in Agribusiness • D24454 Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM) • D24503 Multi-stakeholder Dialogue Report on scaling CSA and climate services/data/innovations • D25548 Chitetezo Cooperative Federation Capacity building report January to June 2023 • D24530 Launch of Zambia drought management system and technical session on drought management plans

Additional questions to Key Performance Indicator

- 1. Name the capacity development activities reported by end of 2023 (in so doing indicate the target beneficiaries and their numbers):

-Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia (13 participants, 4 women, 2 youth) -Multistakeholder consultative workshop: Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia (8 participants, 2 women, 2 youth) -Roundtable Convening on Women and Youth SMEs in Agribusiness (40 participants, 25 women, 25 youth) -Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM) (78 participants, 21 women, 12 youth) -ICCRA CSA-Bundle two Lesson Learned Workshop Report (36 participants, 8 women, 10 youth) Multi-stakeholder Dialogue Report on scaling CSA and climate services/data/innovations: Chitetezo Cooperatives Federation, Eastern Zambia (36 participants, 6 women, 8 youth) -Chitetezo Cooperative Federation Capacity building report January to June 2023 (1,316 participants, 577 women, 197 youth)

- 2. Name the capacity development activities to be reported in future years, if known (in so doing indicate the target beneficiaries and their numbers):

To be confirmed during the AF.

- 3. Indicate how gender and social inclusion issues were dealt with:

Deliberate efforts were made by the GESI (Gender Equality and Social Inclusion) experts involved in the AICCRA Zambia project to promote gender and social inclusion. This encompassed prioritizing the engagement of vulnerable groups, such as women and youth, in various capacity-building activities. These intentional measures aimed to ensure a more inclusive and equitable approach to the project, fostering broader participation and representation from diverse segments of the community.

- 4. If there is a failure to achieve this target, give reason:

We have exceeded the target.

1. Name the capacity development activities reported by end of 2023 (in so doing indicate the target beneficiaries and their numbers).-Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia (13 participants, 4 women, 2 youth) -Multistakeholder consultative workshop: Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia (8 participants, 2 women, 2 youth) -Roundtable Convening on Women and Youth SMEs in Agribusiness (40 participants, 25 women, 25 youth) -Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM) (78 participants, 21 women, 12 youth) -ICCRA CSA-Bundle two Lesson Learned Workshop Report (36 participants, 8 women, 10 youth) Multi-stakeholder Dialogue Report on scaling CSA and climate services/data/innovations: Chitetezo Cooperatives Federation, Eastern Zambia (36 participants, 6 women, 8 youth) -Chitetezo Cooperative Federation Capacity building report January to June 2023 (1,316 participants, 577 women, 197 youth) 2. Name the capacity development activities to be reported in future years, if known (in so doing indicate the target beneficiaries and their numbers).To be confirmed during the AF.3. Indicate how gender and social inclusion issues were dealt withDeliberate efforts were made by the GESI (Gender Equality and Social Inclusion) experts involved in the AICCRA Zambia project to promote gender and social inclusion. This encompassed prioritizing the engagement of vulnerable groups, such as women and youth, in various capacity-building activities. These intentional measures aimed to ensure a more inclusive and equitable approach to the project, fostering broader participation and representation from diverse segments of the community.4. If there is a failure to achieve this target, give reasonWe have exceeded the target.

PD - Indicator 2023: IPI 2.4: Satisfaction with the effectiveness of the partnerships under AICCRA expressed by surveyed partners and stakeholders(%)

Target Value: 75.0

Overall Cluster Contribution to this indicator

Expected value: 10

Narrative explaining the cluster's contribution to this indicator: Given the partnership-driven focus of the AICCRA-Zambia program, the project partners will constantly seek inputs through surveyed results on stakeholder satisfaction with the effectiveness of the partnerships under AICCRA.

Contribution to Intermediate Targets

Target for 2021

IPI 2.4: Satisfaction with the effectiveness of the partnerships under AICCRA expressed by surveyed partners and stakeholders(%)

Narrative of the expected target: While some partnerships are still relatively new e.g. ACDI/Voca, by year-end, we will be able to get specific feedback on the effectiveness of the AICCRA partnership from ACDI/Voca as well as ZMD, and SMEs consulted in the design of the Accelerator Grant mechanism.

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 2.4: Satisfaction with the effectiveness of the partnerships under AICCRA expressed by surveyed partners and stakeholders(%)

Expected value: 75.00

Achieved value: 84

End-year target set by PMC: 0.00

Narrative of the expected target: 75% target for Zambia set by PMC since this will be determined by survey to gauge satisfaction with the effectiveness of the partnerships under AICCRA expressed by surveyed partners with about 75% satisfaction rate. But one deliverable has been mapped to this indicator i.e. D24823 - Lessons learned on impact of CIS training conducted under AICCRA, a report that will be developed by ZMD summarising the impact and lessons learned on the on-going training received by IRI and AICCRA Zambia partners.

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 2.4: Satisfaction with the effectiveness of the partnerships under AICCRA expressed by surveyed partners and stakeholders(%)

Narrative of the expected target: The AICCRA Zambia Cluster will work with the MELIA team to undertake the stakeholder survey for 2023.

Narrative of the achieved target: 86% of the 14 participants said they were satisfied with the effectiveness of the partnerships under AICCRA Zambia.

Additional questions to Key Performance Indicator

<Not Provided>

CSA - Indicator 2023: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Target Value: 18.0

Overall Cluster Contribution to this indicator

Expected value: 3

Narrative explaining the cluster's contribution to this indicator: AICCRA-Zambia will develop CSA/CIS innovation bundles in consultation with local partners and agribusinesses. CSA/CIS innovation bundles will be scaled for selected value chains, and tailored to farm climate risk/agricultural production profiles. The bundled solutions will be disseminated/made accessible using digital tools and demonstration sites will be established on national organizations' and farmers' fields.

Contribution to Intermediate Targets

Target for 2021

IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Narrative of the expected target: AICCRA-Zambia have not as yet made the CIS/CSA packages accessible to users, however 4 CSA bundles will be promoted through the accelerator grant mechanism, which will be launched in October/November 2021 (pending safeguard specialist appointments).

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Expected value: 4.00

Achieved value: 4

End-year target set by PMC: 4.00

Narrative of the expected target: 4 CSA/CIS innovation bundles will be delivered through the 5 Accelerator Grant winners. Each winner will provide a robust business case to scale their CIS/CSA bundle to 70 000 beneficiaries each, using appropriate CIS/CSA. Three deliverables mapped to this indicator include 1). D24641-Climate information products developed in consultation with users will summarise the different CIS products delivered; 2). D24464-Summary Report of testing of 3 communication channels will serve as the primary agro-advisory/dissemination channel of the ag data hub; and 3) D24488-Updated installation of IRI Data Library at ZMD, is an additional CIS product to be delivered by IRI.

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Narrative of the expected target: AICCRA-Zambia has continued building partnerships with agribusinesses to strengthen the dissemination and uptake of CIS and CSA technologies. This year, three of the five CIS CSA bundles in agribusiness (Bundles 1, 2, and 3) have been awarded additional finance from another partnership with USAID under the AID-I project led by CYMMIT in Zambia. Currently, the three bundles are processing their contracts so that they can start receiving the funds for the planned activities (to attach a link for contract with AID-I).

Narrative of the achieved target: In 2023, the project intensified efforts to scale these technologies, ensuring their reach to thousands of intended beneficiaries as outlined in PDO 2. Notably, validated CSA and CIS products were strategically promoted through television and YouTube channels to enhance product visibility and expand the market share of private sector participants involved in the AICCRA project, ultimately achieving remarkable success by reaching more beneficiaries. The project's impact extended significantly, expanding the reach from thousands to over 2 million beneficiaries, as reported in PDO 2. Reflections on the lessons learned were also conducted to understand both successes and areas for improvement, as documented in D24500. These achievements underscore the crucial role of private sector investments in smallholder agriculture and emphasize the significance of digitalizing CSA CIS technologies. This strategic approach enables millions of beneficiaries to access these innovations with minimal resources, fostering widespread adoption and improved agricultural practices for a water- and food-secure future. The successful integration of private sector support and digital solutions has not only expanded the project's impact but has also established a scalable model for future initiatives in scaling validated climate information services and climate-smart agriculture technology packages.

Additional questions to Key Performance Indicator

- 1. Name the CIS/CSA technologies reported by end of 2023:
 - Bundle 1: Scaling and Distribution of Off-Grid Solar Irrigation Technologies (D25566 & D25567)
 - Bundle 2: Scaling of Integrated Aquaculture and Better Management Practices for Pond Aquaculture (D25558 & D25562).
 - Bundle 3: Scaling of Drought-Resistant Seed Varieties and Plant Catalysts (D25554 & D25556).
 - Bundle 4: Scaling of Agroforestry for Smallholders (D25567 & D25568).
 - 2. Name the CIS/CSA technologies to be reported in following years, if known:
Not known
 - 3. If there is a failure to achieve this target, give reason:
No failure
1. Name the CIS/CSA technologies reported by end of 2023 • Bundle 1: Scaling and Distribution of Off-Grid Solar Irrigation Technologies (D25566 & D25567) • Bundle 2: Scaling of Integrated Aquaculture and Better Management Practices for Pond Aquaculture (D25558 & D25562). • Bundle 3: Scaling of Drought-Resistant Seed Varieties and Plant Catalysts (D25554 & D25556). • Bundle 4: Scaling of Agroforestry for Smallholders (D25567 & D25568). 2. Name the CIS/CSA technologies to be reported in following years, if known Not known 3. If there is a failure to achieve this target, give reason No failure

CSA - Indicator 2023: IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

Target Value: 36.0

Overall Cluster Contribution to this indicator

Expected value: 6

Narrative explaining the cluster's contribution to this indicator: AICCRA-Zambia will develop several CSA technology packages supporting selected value chains suitable for smallholder farmers in the various agro-ecological zones of Zambia. In this regard, it will work to identify gender and youth vulnerability within the food system and identify potential entry points to build resilience as effected by climate change through user-centred co-design to enhance gender and social inclusion in terms of user preference to the solution as well as increase access to the solution

Contribution to Intermediate Targets

Target for 2021

IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

Narrative of the expected target: The focus of this initial year is on identifying the customized CIS/CSA bundle that would specifically focus on women (i.e., the fifth CSA/CIS bundle promoted in the Accelerator Grant) and developing the Accelerator Grant mechanism for its dissemination. This does not preclude the other 4 CSA/CIS bundles from not incorporating GESI elements - rather, a criteria is being developed to ensure that this is covered across all 5 CSA bundles, with a more pronounced/principal focus in the fifth. Grant recipients are expected to be identified by December 2021.

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

Expected value: 3.00

Achieved value: 3

End-year target set by PMC: 3.00

Narrative of the expected target: Three interventions are proposed to achieve this indicator in 2022. These include 1) the GESI bundle which cuts across the 4 CSA technologies validated by the project (from solar, aqua, seed and small livestock value chains). GESI will identify and scale technologies that meets the interest of women to enhance CIS CSA uptake among women. Furthermore, customized tools will includes the climate advisory tools under the ag-data hub. The GESI bundle will further be supported by 2) the webinar series for women and youth-led agribusinesses; and 3). gender focus in framing of Challenges suggested for the Internship/Innovation Grant (I2G).

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

Narrative of the expected target: Each of the 4 AICCRA Zambia Accelerator partnerships will report on 1 GESI program implemented under their bundle (more detail to be provided). The 5th program is the I2G internship program (ACDI/VOCA) which focuses on targeting young women placements at SMEs.

Narrative of the achieved target: AICCRA Zambia has achieved notable strides in promoting gender equality and social inclusion (GESI) through the scaling of climate information services and climate-smart agriculture technologies reaching women through customized programs such as D25431 Roundtable Convening on Women and Youth SMEs in Agribusiness, and many other outreach products mapped to this indicator (IPI 3.2). The strategy of having each of the four AICCRA Zambia Accelerator partnerships report on a GESI activities implemented under their bundles demonstrates a comprehensive effort to address the diverse needs and concerns of women across different sectors of climate-smart agriculture. This approach ensures that CIS CSA innovations customized to each bundle package. Furthermore, the establishment of the I2G internship program, focusing on placing young women in SMEs, represents a forward-looking initiative. By targeting the professional development of young people within the climate-smart agriculture landscape, ACDI/VOCA's program contributes not only to gender equality but also to empowering the next generation of female leaders in this field.

Additional questions to Key Performance Indicator

- 1. Name the CIS/CSA technologies reported by end of 2023:

The main CIS and/or CSA technologies reaching women were the CSA bundles, which were digitized and broadcasted strategically on TV. The dissemination of these CSA technologies involved interviewing husbands and wives, or men and women, to inspire other female farmers to adopt the best technologies made available by the project. The CSA technologies reaching women are highlighted in the Munda makeover videos in the deliverables below, and a lot more are available in the YouTube playlist linked to the deliverables. 1. Bundle 1: Scaling and Distribution of Off-Grid Solar Irrigation Technologies (D25565) 2. Bundle 2: Scaling of Integrated Aquaculture and Better Management Practices for Pond Aquaculture (D25558). 3. Bundle 3: Scaling of Drought-Resistant Seed Varieties and Plant Catalysts (D25571). 4. Bundle 4: Scaling of Agroforestry for Smallholders (D25568). 5. Climate-Smart Aquaculture for Smallholder Fish Farmers: Integrated Fish and Small Livestock Farming (D25299).

- 2. Name the CIS/CSA technologies to be reported in following years, if known:

Not known

- 3. Indicate how gender and social inclusion issues were dealt with:

The project made deliberate efforts to establish a Gender Equality and Social Inclusion (GESI) bundle, focusing on providing women with access to Climate Information Services (CIS) and/or Climate-Smart Agriculture (CSA) technologies. The GESI bundle targeted value chains that are of interest to women, such as groundnuts, vegetables, and chickens, aiming to reach a broader audience of women. Additionally, as part of the effort to integrate gender and social inclusion (GSI), accelerator partners were assigned targets to prioritize women and youth. This involved encouraging their active participation in field trainings hosted by the accelerator partners and promoting the utilization of available CSA and CIS technologies to enhance productivity. Furthermore, the accelerator partners hosted the young professionals (interns) who participated in the internship innovation challenge.

- 4. If there is a failure to achieve this target, give reason :

No failure

1. Name the CIS/CSA technologies reported by end of 2023
The main CIS and/or CSA technologies reaching women were the CSA bundles, which were digitized and broadcasted strategically on TV. The dissemination of these CSA technologies involved interviewing husbands and wives, or men and women, to inspire other female farmers to adopt the best technologies made available by the project. The CSA technologies reaching women are highlighted in the Munda makeover videos in the deliverables below, and a lot more are available in the YouTube playlist linked to the deliverables. 1. Bundle 1: Scaling and Distribution of Off-Grid Solar Irrigation Technologies (D25565) 2. Bundle 2: Scaling of Integrated Aquaculture and Better Management Practices for Pond Aquaculture (D25558). 3. Bundle 3: Scaling of Drought-Resistant Seed Varieties and Plant Catalysts (D25571). 4. Bundle 4: Scaling of Agroforestry for Smallholders (D25568). 5. Climate-Smart Aquaculture for Smallholder Fish Farmers: Integrated Fish and Small Livestock Farming (D25299). 2. Name the CIS/CSA technologies to be reported in following years, if known
Not known
3. Indicate how gender and social inclusion issues were dealt with
The project made deliberate efforts to establish a Gender Equality and Social Inclusion (GESI) bundle, focusing on providing women with access to Climate Information Services (CIS) and/or Climate-Smart Agriculture (CSA) technologies. The GESI bundle targeted value chains that are of interest to women, such as groundnuts, vegetables, and chickens, aiming to reach a broader audience of women. Additionally, as part of the effort to integrate gender and social inclusion (GSI), accelerator partners were assigned targets to prioritize women and youth. This involved encouraging their active participation in field trainings hosted by the accelerator partners and promoting the utilization of available CSA and CIS technologies to enhance productivity. Furthermore, the accelerator partners hosted the young professionals (interns) who participated in the internship innovation challenge. 4. If there is a failure to achieve this target, give reason
No failure

CSA - Indicator 2023: IPI 3.3: Use or adaptation of AICCRA-funded climate-relevant knowledge products, decision-making tools and services stated and confirmed by surveyed partners and stakeholders (%)

Target Value: 25.0

Overall Cluster Contribution to this indicator

Expected value: 5

Narrative explaining the cluster's contribution to this indicator: AICCRA-Zambia will source a M&E specialist during the project life-span. An end-of-project workshop and survey will be organized to evaluate the rate of use or adaptation of AICCRA-funded climate-relevant knowledge products, decision-making tools and services.

Contribution to Intermediate Targets

Target for 2021

IPI 3.3: Use or adaptation of AICCRA-funded climate-relevant knowledge products, decision-making tools and services stated and confirmed by surveyed partners and stakeholders (%)

Narrative of the expected target: This indicator will only be assessed annually through a centrally administered questionnaire to partners.

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 3.3: Use or adaptation of AICCRA-funded climate-relevant knowledge products, decision-making tools and services stated and confirmed by surveyed partners and stakeholders (%)

Expected value: 60.00

Achieved value: 67

End-year target set by PMC: 0.00

Narrative of the expected target: In partnership with the MEL team, the partnership satisfaction survey will summarise the key findings of the stakeholder survey conducted annually. AICCRA Zambia tools and product usefulness was recorded at 42% during the partnership satisfaction survey. This we hope to increase up to 60% by 2022.

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 3.3: Use or adaptation of AICCRA-funded climate-relevant knowledge products, decision-making tools and services stated and confirmed by surveyed partners and stakeholders (%)

Narrative of the expected target: Given the comparative 'newness' of the AICCRA Zambia Cluster's activities vis-a-vis other CCAFS focal countries, the use/adoption rate of products, tools and services is bound to be slightly lower, however, the cluster will strive to exceed the 12.5 use/adoption rate given the robust scaling pathways being implemented.

Narrative of the achieved target: 89% of the 18 respondents from Zambia used at least one of the following services: Sustainable finance solutions for off-grid solar irrigation technologies Integrated aquaculture agriculture (IAAs) system Better management practices for pond aquaculture Climate smart seed varieties for soybeans Plantcatalyst Internship Innovation Grant (I2G) gliricidia sepium (agro-forestry) IRI's Automatic Weather Station (AWS) Climate Data Tool (CDT) Weather Station Data Tool

Additional questions to Key Performance Indicator

<Not Provided>

CSA - Indicator 2023: IPI 3.5: Policy and investment decisions influenced by engagement and information dissemination by AICCRA funded partnerships and capacity building activities (number)

Target Value: 15.0

Overall Cluster Contribution to this indicator

Expected value: 3

Narrative explaining the cluster's contribution to this indicator: AICCRA-Zambia will work with ZMD to develop a National Framework for Climate Services (NFWCS); NFWCS resource mobilization strategy; and develop an implementation/action plan of the framework.

Contribution to Intermediate Targets

Target for 2021

IPI 3.5: Policy and investment decisions influenced by engagement and information dissemination by AICCRA funded partnerships and capacity building activities (number)

Narrative of the expected target: No expected contribution to this target in 2021, but work is on going to put in place the mechanisms to achieve on policy targets in subsequent years.

Narrative of the achieved target: <Not defined>

Target for 2022

IPI 3.5: Policy and investment decisions influenced by engagement and information dissemination by AICCRA funded partnerships and capacity building activities (number)

Expected value: 1.00

Achieved value: 1

End-year target set by PMC: 1.00

Narrative of the expected target: AICCRA Zambia partners will work with ZMD to start the process to develop a National Framework for Climate Services. While the NFCS will not be delivered in 2022, our efforts will influence related policy decisions e.g. the operationalization of the Zambia CSA Investment Plan. Additional policy and investment interventions will be explored and identified for the NBS work planned in 2022 as well. The latter will provide advice to refine a National Climate-Smart Agriculture Investment Plan (CSAIP) to support CSA, climate information services (CIS), and agricultural extension, including identifying investment opportunities for financing nature-based solutions in Zambia.

Narrative of the achieved target: <Not defined>

Target for 2023

IPI 3.5: Policy and investment decisions influenced by engagement and information dissemination by AICCRA funded partnerships and capacity building activities (number)

Narrative of the expected target: The Cluster will accelerate its efforts to finalize and deliver the NFWCS in 2023 comprising of several milestone policy documents: 1) NFWCS Framework; 2) NFWCS Resource Mobilisation Strategy; 3) Implementation/Action Plan of the Framework.

Narrative of the achieved target: The project initiated preliminary engagements with local stakeholders (D24988), developed a work plan, and subsequently conducted a stakeholder consultation (D24454). The Ministry of Green Economy, which represented the Zambian government during this consultation, deepened its understanding of and adopted the procedures for creating a National Framework for Weather, Water, and Climate Services (NFWWCS). The AICCRA Zambia project assisted the Ministry of Green Economy and Environment (MGEE) in collaboration with the Zambia Meteorological Department (ZMD) in organizing a national stakeholders' consultation workshop aimed at crafting an NFWWCS for Zambia. The stakeholder consultation resulted in the establishment of a collaborative platform and the development of closer relationships, fostering improved development and operation of the NFWWCS in Zambia. It facilitated the identification of suitable mechanisms to enhance and sustain the flow, co-production, and delivery of user-relevant climate information for diverse user groups. The workshop also provided an opportunity for the Zambian government.

Additional questions to Key Performance Indicator

- 1. Name the policy and investment decisions reported by end of 2023:
Establishment of action plan for the development of a NFWWCS for Zambia (D24454)
 - 2. Name the policy and investment decisions to be reported in following years, if known:
To be determined during the AF.
 - 3. If there is a failure to achieve this target, give reason :
No failure, but implementation has been extended to the AF.
 - 4. How much money (USD) have you leveraged/ mobilized from other donors/sources that is related to the work of the AICCRA project? And please provide a brief narrative description of the AICCRA activity that is related to this mobilized money and define if it is private or public money. Write "None" if you have not been able to mobilize any additional resources. (please make sure you are able to justify the figure in the case you are asked for):
No money has been raised so far.
1. Name the policy and investment decisions reported by end of 2023
Establishment of action plan for the development of a NFWWCS for Zambia (D24454)
2. Name the policy and investment decisions to be reported in following years, if known
To be determined during the AF.
3. If there is a failure to achieve this target, give reason
No failure, but implementation has been extended to the AF.
4. How much money (USD) have you leveraged/ mobilized from other donors/sources that is related to the work of the AICCRA project? And please provide a brief narrative description of the AICCRA activity that is related to this mobilized money and define if it is private or public money. Write "None" if you have not been able to mobilize any additional resources. (please make sure you are able to justify the figure in the case you are asked for)
No money has been raised so far.

4.2 OICRs & MELIAs

Cluster OICR/MELIA #3550 - Cluster: Zambia

Shared Clusters:

- EA

Type: OICR: Outcome Impact Case Report

Status: On Going

Year: 2023

Title: AICCRA Zambia has made CIS and CSA accessible to 2,315,737 farmers through the Munda Makeover

Short outcome/impact statement:

Munda MakeOver is facilitated by CGIAR Initiatives and AICCRA and brings together the development, research, and commercial sectors to educate smallholders on climate information services (CIS) and climate-smart agriculture (CSA) solutions and practices. Three out of 10 farmers with access to TV claimed to have watched the show. This works out to a population of 2,315,737 farmers accessing the CIS and CSA technologies disseminated via the TV reality show.

Links to any communications materials relating to this outcome: <Not Defined>

Level of maturity of change reported: Level 1

Is this OICR linked to some SRF 2022/2030 target?: Too early to say

Description: <Not Defined>

Geographic scope:

- National

Country(ies):

- Zambia

Comments: What makes this so powerful is that local farmers from Zambia highlight their challenges and experts visit their farm to give them practical resolves.

Does this study incorporate any COVID-19 Analysis?: No

Performance indicator:

- PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

MELIA Publications:

<Not Defined>

Key Contributors:

Contributing Centers/Managing partners:

- CGIAR WorldFish - WorldFish
- CGIAR IITA - International Institute of Tropical Agriculture
- CGIAR IWMI - International Water Management Institute
- CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics

Contributing Regional programs:

- EA-SA: Eastern and Southern Africa

Contributing external partners: <Not Defined>

CGIAR innovation(s) or findings that have resulted in this outcome or impact:

<https://www.cgiar.org/initiative-result/munda-makeover-teaches-climate-smart-agriculture-to-3-million-people-each-week/>

6. Innovations:

- 1564 - Munda Makeover

Elaboration of Outcome/Impact Statement:

Leveraging live TV as a powerful medium, Munda Makeover (MMO) addresses the challenges faced by Zambian smallholder farmers, in terms of climate change, food security, and limited resources by disseminating knowledge, promoting climate resilience, and fostering collaboration among farmers, market networks, and agribusinesses to ensure sustainable food security. The CSA innovation packages disseminated included (i) the sustainable off-grid solar irrigation technologies; (ii) the integrated aquaculture agriculture systems; (iii) climate resilient seed varieties; and (iv) small livestock and legume systems.

The first reality TV show of its kind in Zambia, MMO aired on the Zambia National Broadcast Corporation (ZNBC) from November 2022 to April 2023 in a first season comprising of 20 episodes, to take on the Impact Areas of Climate Adaptation and Mitigation, and Nutrition, Health, and Food Security. The ground-breaking show offers solutions that are tailor-made for the people of Zambia and their unrehearsed, real-life challenges across Zambia, which are then presented in each 26-minute-long episode.

The program is facilitated by CGIAR Initiatives and AICCRA and brings together the development, research, and commercial sectors to entertain and inform smallholders on climate information services (CIS) and climate-smart agriculture (CSA) solutions and practices available to them. The first season was co-funded by the International Water Management Institute (IWMI) and the Alliance for Bioversity-CIAT through the CGIAR Initiatives on Climate Resilience (ClimBeR) and Ukama Ustawi, among other partners.

What further sets this “farm improvement show” apart is that it is largely unscripted. Smallholder farmers across Zambia share their problems, which exemplify the challenges of many. The show is set in the fields of smallholder farmers to help scale out CIS and CSA. The presenters and experts visit a family plot to demonstrate solutions to improve farming practices and make meaningful changes on the farm, as viewers watch.

The broadcast runs parallel to the main growing season, beginning with issues around soil testing, seed selection, and planting, then moving to pest and disease management, crop management, all the way to harvesting, reducing post-harvest losses, storage, and markets. Issues around livestock management, financial inclusion, nutrition, and modern cooking solutions run throughout the entire season. To improve farmer knowledge exchange and learning, group approaches and cooperatives are also featured.

MMO is modeled on Shamba Shape Up, East Africa’s leading farm makeover program, which was first launched in Kenya and Tanzania over a decade ago.

<https://www.cgiar.org/initiative-result/munda-makeover-teaches-climate-smart-agriculture-to-3-million-people-each-week/>

Reference and Evidence cited:

<Not Defined>

Quantification: <Not Defined>

Gender, Youth, Capacity Development and Climate Change:

Gender relevance: 1 - Significant

Main achievements with specific **Gender** relevance: Both men and women farmers are involved with MMO.

Youth relevance: 1 - Significant

Main achievements with specific **Youth** relevance: Youth and the previously disadvantaged are involved with MMO.

CapDev relevance: 2 - Principal

Main achievements with specific **CapDev** relevance: Please assist in populating this.

Climate Change relevance: 2 - Principal

Describe main achievements with specific **Climate Change** relevance: The program is facilitated by CGIAR Initiatives and AICCRA and brings together the development, research, and commercial sectors to entertain and inform smallholders on climate information services (CIS) and climate-smart agriculture (CSA) solutions and practices available to them.

Other cross-cutting dimensions: Yes

Other cross-cutting dimensions description: <Not Defined>

Outcome Impact Case Report link: [Cluster OICR/MELIA #3550](#)

Contact person:

Dr Inga Jacobs-Mata, ijacobs-mata@cgiar.org

Cluster OICR/MELIA #3560 - Cluster: Zambia

Shared Clusters: <Not Defined>

Type: OICR: Outcome Impact Case Report

Status: On Going

Year: 2023

Title: In Eastern Zambia, a Climate Change Hotspot, 137,000 smallholder farmers adopt agroforestry to improve farm yields, through a partnership with the COMACO social enterprise

Short outcome/impact statement:

COMACO is one of the agribusinesses working with the AICCRA Zambia project to accelerate the dissemination and adoption of agroforestry, a climate-smart agriculture technology that helps to improve farm yield through soil fertility management with *Gliricidia sepium* trees. COMACO is working with 230,000 registered farmers. Of these, 137,153 (56% women) have so far planted *Gliricidia* seedlings in their fields. Together, the farmers have planted a total of 37.1 million seedlings, covering 16,200 hectares of land affected by climate change.

Links to any communications materials relating to this outcome:

- <https://www.youtube.com/watch?v=YUn64mcEEdk>
- <https://www.youtube.com/watch?v=filVUBz4ddQ>
- Zulu S. 2023. Chitetezo Cooperative Federation Proof of Concept: Legume Value Chains, Changing Lives, Protecting Nature. AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). <https://hdl.handle.net/10568/130848>
- <https://hdl.handle.net/10568/130848>

Level of maturity of change reported: Level 2

Is this OICR linked to some SRF 2022/2030 target?: Yes

SRF 2022/2030 targets:

- # of hectares of forest saved from deforestation
- # of more farm households have adopted improved varieties, breeds or trees

Description: Eastern Province is one of Zambia's climate change hotspots affected by droughts, and the province is characterized by intensive farming practices leading to deforestation for agriculture purposes, loss of organic matter, and depletion of nutrients from the soils. The smallholder farmers have adopted the planting of agroforestry to help restore and maintain soil fertility and improve farm yield sustainably.

Geographic scope:

- National

Country(ies):

- Zambia

Comments: The innovations that have been disseminated cover the Eastern, Muchinga and Central provinces of Zambia, and there are opportunities to spread to other provinces.

Does this study incorporate any COVID-19 Analysis?: No

Performance indicator:

● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %) ● PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number) ● PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

MELIA Publications:

<Not Defined>

Key Contributors:

Contributing Centers/Managing partners:

- CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics

Contributing Regional programs:

- EA-SA: Eastern and Southern Africa

Contributing external partners:

- COMACO - Community Markets for Conservation

CGIAR innovation(s) or findings that have resulted in this outcome or impact:

These results are the work of the AICCRA Zambia Accelerator program with details of the innovation documented in the investor deal book (<https://hdl.handle.net/10568/124994>). The CGIAR research centers (IWMI, IITA, ICRISAT, WorldFish) have developed innovations to help Zambian farmers and communities safeguard their livelihoods in the face of climate change. In a participatory process, four climate-smart innovation bundles were designed that are now being scaled in partnership with high-performing Zambian agribusinesses with the aim to increase the livelihoods of the smallholder farmers. The report only focuses on the work of ICRISAT with COMACO on CSA bundle 4: circular economy for mixed livestock/legume systems. AICCRA Zambia then took a demand-led approach focusing on the gaps in the market and technical assistance needs of key actors such as agribusinesses and the farmers they serve.

6. Innovations:

- 1563 - AICCRA-Zambia Accelerator

Elaboration of Outcome/Impact Statement:

COMACO is one of the agribusinesses collaborating with the AICCRA Zambia project to accelerate the dissemination and adoption of agroforestry, a climate-smart agriculture technology that improves farm productivity by managing soil fertility with *Gliricidia sepium* trees. COMACO works with over 230,000 registered farmers. So far, 137,153 (56% of them) have planted *Gliricidia* plants in their fields. Farmers have planted a total of 37.1 million seedlings, covering 16,200 hectares of climate-change-affected land.

To accelerate adoption of climate smart agriculture technologies to beneficiaries, COMACO has been working with Chitetezo Cooperation Federation, which is a strong, complementary agribusiness cooperative with "last mile" cooperative leadership structures that make business and farmer extension support possible even in the most remote areas, thereby offering extension service support to thousands of beneficiaries. The Chitetezo Cooperation Federation comprises 62 cooperative institutions spread across 89 chiefdoms, including community forest management groups and traditional leaders. To increase adoption of technologies, COMACO trained 1,346 seed growers (604 females) and 258 internal local seed inspectors within the cooperative structure to accelerate the diffusion of climate-smart agriculture technologies among cooperative members across the chiefdoms. The CSA trainings were centred around the planting of *gliricidia sepium* trees as well as compost making. The key CSA messages covered in the trainings are highlighted in the videos in the links provided below.

This work started in 2021 under the AICCRA Zambia project. AICCRA Zambia works with national and grassroot partners, including COMACO, to scale actionable climate smart agriculture (CSA) and climate information services (CIS) innovation bundles that contribute to smallholder farmers' water and food security and build resilience. COMACO is a social enterprise with a mission to work with communities to secure a better life and become good stewards of their natural resources. COMACO finances enhanced climate-smart agricultural practices through the adoption of a legume-based farming system and agroforestry that increase crop yields. It also provides market opportunities for smallholder farmers by selling a variety of nature-based food products through a country-wide retail brand, "It's Wild", and linking to carbon markets with positive conservation outcomes, including more trees, more wildlife, and healthier soils.

Reference and Evidence cited:

- Zulu S. 2023. Chitetezo Cooperative Federation Proof of Concept: Legume Value Chains, Changing Lives, Protecting Nature. AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/130848>
- Planting of *gliricidia sepium* | <https://www.youtube.com/watch?v=filVUBz4ddQ>
- Compost making | <https://www.youtube.com/watch?v=YUn64mcEEdk>

Quantification: <Not Defined>

Gender, Youth, Capacity Development and Climate Change:

Gender relevance: 1 - Significant

Main achievements with specific **Gender** relevance: 56% of the total beneficiaries reached were women.

Youth relevance: 0 - Not Targeted

CapDev relevance: 1 - Significant

Main achievements with specific **CapDev** relevance: The technical assistance facility of the science-driven accelerator program consists of three distinct categories:

Scientific excellence: Bundle-specific research advisory supporting the climate-smartness of the activities, but also the inclusion and use of climate information services as well as gender-sensitive strategy development. These services are provided by the scientists leading the individual bundles as well as the respective CGIAR subject matter experts

Impact-measurement and management: Assessment of the CSA-impact of the intervention on an SME- and farm-level. This science-based evidence can be anything from CO2 emissions saved to hectares of land irrigated sustainably.

There was a \$50k grant provided.

Climate Change relevance: 1 - Significant

Describe main achievements with specific **Climate Change** relevance: Adoption of agroforestry, a climate-smart agriculture technology that helps to improve farm yield through soil fertility management with Gliricidia sepium trees covering 16,200 hectares of land affected by climate change.

Other cross-cutting dimensions: <Not Defined>

Other cross-cutting dimensions description: <Not Defined>

Outcome Impact Case Report link: [Cluster OICR/MELIA #3560](#)

Contact person:

Dr Inga Jacobs-Mata

I.Jacobs-Mata@cgiar.org

Director: Water, Growth and Inclusion, International Water Management Institute – Southern Africa

Cluster OICR/MELIA #3573 - Cluster: Zambia

Shared Clusters: <Not Defined>

Type: OICR: Outcome Impact Case Report

Status: On Going

Year: 2023

Title: Stepping up technical support to six AICCRA partners with enhanced CIS/CSA reaching over 380,000 beneficiaries to date

Short outcome/impact statement:

In 2023, AICCRA Zambia focused on strengthening the capacity of existing partners such as the AICCRA Zambia Accelerator partners in accessing enhanced CIS and/or validated CSA technologies, and government partners with targeted CIS tools. The 16 Accelerator partners have concluded their technical support program and have received additional support to scale their CSA/CIS bundles through AICCRA and now further into the USAID-funded AID-I. Three of the 5 Accelerator bundles (1, 2, 3) have accessed investment readiness support by AICCRA partner, Open Capital Advisors. The lead partners for this were Lupiya (Bundle 1), Eunimos (Bundle 2), and Agova (bundle 3) - the investment readiness program provided vital support in helping Accelerator partners identify additional CIS/CSA innovations to scale and the scaling pathways to do so. In addition, the following government partners have continued their collaboration with AICCRA and have further benefited from additional CIS related tools before not reported : 1) ZMD (NFCS process commencement and CIS trainings by IRI conducted in Feb/March 2023); 2) WARMA (launched, hosted and operationalized the Zambia Drought Management System); and 3) SMART Zambia (hosting of the Agdatahub). The beneficiaries reached in 2023 alone amounted to over 260 000 benefitting from the additional CIS/CSA technology packages scaled. Use figures for the ZDMS and Agdatahub are yet to be tallied. Some of the impacts include enhanced capacity of government partners (ZMD, WARMA, DMMU, SMART Zambia) in their strategy planning and implementation of activities with the support of the CIS tools introduced.

Links to any communications materials relating to this outcome:

- <https://hdl.handle.net/10568/119796>
- <https://cgspace.cgiar.org/handle/10568/126833>
- <https://cgspace.cgiar.org/handle/10568/126889>
- <https://cgspace.cgiar.org/handle/10568/130306>
- <https://www.mdpi.com/2071-1050/15/1/190>
- <https://cgspace.cgiar.org/handle/10568/127053>
- <https://cgspace.cgiar.org/handle/10568/119200>
- <https://cgspace.cgiar.org/handle/10568/127066>
- <https://cgspace.cgiar.org/handle/10568/126782>
- <https://core.ac.uk/download/552672008.pdf>
- <https://cgspace.cgiar.org/handle/10568/130745>
- <https://cgspace.cgiar.org/handle/10568/127028>

Level of maturity of change reported: Level 2

Is this OICR linked to some SRF 2022/2030 target?: Yes

SRF 2022/2030 targets:

- # of hectares of forest saved from deforestation
- # of more farm households have adopted improved varieties, breeds or trees

Description: <Not Defined>

Geographic scope:

- National

Country(ies):

- Zambia

Comments: <Not Defined>

Does this study incorporate any COVID-19 Analysis?: No

Performance indicator:

- PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)
- CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
- KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

MELIA Publications:

<Not Defined>

Key Contributors:

Contributing Centers/Managing partners:

- CGIAR IITA - International Institute of Tropical Agriculture
- CGIAR WorldFish - WorldFish
- CGIAR IWMI - International Water Management Institute
- CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics
- AICCRA Theme 4 COLUMBIA

Contributing Regional programs:

- EA-SA: Eastern and Southern Africa

Contributing external partners:

- ZMD - Zambia Meteorological Department
- Lupiya
- Eunimos Investment Limited
- KATP - Kasama Arts Theatre Production
- Agova
- COMACO - Community Markets for Conservation
- VITALITE Zambia Limited
- SZI - SMART Zambia Institute
- KCS - Kasakalabwe Cooperative society
- WARMA - Water Resources Management Authority
- Lima Links

CGIAR innovation(s) or findings that have resulted in this outcome or impact:

TBC

6. Innovations:

- 1561 - Integrated AgDataHub
- 1560 - Zambia Drought Management System (ZADMS)
- 1563 - AICCRA-Zambia Accelerator

Elaboration of Outcome/Impact Statement:

1. Bundle 1 (Sustainable Finance for Off-Grid Solar Irrigation and Agro-Advisories Partnership: Lima Links, Vitalite, Lupiya): with AICCRA's technical support, Vitalite has expanded its solar pump offering in 2023; Limalinks has integrated new CIS tools into their service and outreach offering, e.g., tilapia temp CIS advisory, etc.; and Lupiya has received operational support to test the credit-scoring model. These are new and additional CIS/CSA technical support not reported in 2021 or 2022. This partnership uses big data to provide user-centric financial solutions to scale end-to-end irrigation technologies and agro-advisory services to >100,000 small-scale farmers in Zambia. The partnership scales innovation around off-grid solar irrigation as well as climate information services and agricultural best practices.

2. Bundle 2 (Zambian Integrated Agriculture-Aquaculture Partnership: Adsek Enterprises, Hopeways Ltd., Eunimos Investment Ltd., Kasakalabwe, Kasama Arts Foundation): In 2023, through the AICCRA Zambia technical support, this bundle of partners were able to increase their brand visibility within Luapula and Northern provinces, and neighboring regions; disseminate Climate Information Services and Climate Smart Agriculture to extend reach in Zambia; develop partnerships with leading supermarkets chains (e.g., Shoprite & Pick and Pay) in focus areas currently grappling with limited fish supply; leveraged existing relationships with supermarket chains like Food Lovers Market and Mansa Best Chance to expand distribution footprint; increased table-size fish supply to 15T per month from current 8T (almost 2x increase); expanded to the Copperbelt, Central province and Lusaka to provide extension services and boost fish supply among small-scale farmers; untilimately reaching 75K additional farmers in these regions and sell 2M and 100K tilapia and catfish fingerlings, respectively, resulting in total revenues of ~USD 150K p.a.

3. Bundle 3 (Bio-Organic Fertilizer and Drought-Tolerance Seed for Smallholder Farmers Partnership: PlantCatalyst Zambia, Agova, IDE, ZARI, and Corteva): with AICCRA investment readiness support, this partnership was able to identify the following new CIS/CSA opportunities that are now being implemented, i.e., the expansion of PlantCatalyst's distribution network, upon which Corteva's seed dissemination strategy will build, through the expansion of the farmer network and farm-based advisor model; and developing a local manufacturing plant for bio-organic fertilizer in Zambia. This partnership's aim is to scale up the distribution of CSA input packages (climate-resilient seeds and nutrient absorption enhancers/organic bio-stimulants) for maize, groundnut, and soyabean, in addition to providing access to CIS and extension support on best agronomic practices to 130.000 beneficiaries.

Reference and Evidence cited:

- Homann-Kee Tui S, Kakwasha K, Wilkinson M, Chongo C, Hang'ombe B, Zulu S, Mubanga C, Moyo M, Jacobs-Mata I. 2023. Impact of CSA technology packages on smallholder farmers under the accelerator program in Zambia. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/130745> (External Author)

Quantification: <Not Defined>

Gender, Youth, Capacity Development and Climate Change:

Gender relevance: 1 - Significant

Main achievements with specific **Gender** relevance: tbc

Youth relevance: 1 - Significant

Main achievements with specific **Youth** relevance: tbc

CapDev relevance: 2 - Principal

Main achievements with specific **CapDev** relevance: tbc

Climate Change relevance: 2 - Principal

Describe main achievements with specific **Climate Change** relevance: tbc

Other cross-cutting dimensions: No

Other cross-cutting dimensions description: tbc

Outcome Impact Case Report link: [Cluster OICR/MELIA #3573](#)

Contact person:

Inga Jacobs-Mata: i.jacobs-mata@cgiar.org

Cluster OICR/MELIA #3605 - Cluster: Theme 4

Shared Clusters:

- Mali
- Zambia
- Ethiopia
- Senegal
- Kenya
- Ghana

Type: OICR: Outcome Impact Case Report

Status: On Going

Year: 2023

Title: South-South learning spurs co-development of Climate Risk Management in Agricultural Extension curricula in six AICCRA countries and amongst over 70 institutions representing public and private extension and advisory service providers

Short outcome/impact statement:

Through facilitation of multistakeholder dialogues, knowledge sharing, and capacity development by AICCRA, more than 70 institutions across all six AICCRA countries collaborated within their respective countries to co-produce competency- and skills-based curricula targeting public and private extension providers to help farmers manage climate risk. These co-development processes followed south-south sharing of curricular experiences between countries and starting with Ethiopia, and have resulted trainings, pilots, and/or detailed plans of action for implementation of the curriculum in each of these countries.

Links to any communications materials relating to this outcome: <Not Defined>

Level of maturity of change reported: Level 1

Is this OICR linked to some SRF 2022/2030 target?: Too early to say

Description: <Not Defined>

Geographic scope:

- Multi-national

Country(ies):

- Mali
- Zambia
- Ethiopia
- Senegal
- Kenya
- Ghana

Comments: Important: We are reporting here all institutions (70) that have been involved in this activity. However, for PDO1, we are only reporting 3 institutions where the change in practice qualifies.

Does this study incorporate any COVID-19 Analysis?: No

Performance indicator:

● PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women) ● KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number) ● PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

MELIA Publications:

<Not Defined>

Key Contributors:

Contributing Centers/Managing partners:

- AICCRA Theme 4 COLUMBIA

Contributing Regional programs: <Not Defined>

Contributing external partners: <Not Defined>

CGIAR innovation(s) or findings that have resulted in this outcome or impact:

CRMAE

6. Innovations: <Not Defined>

Elaboration of Outcome/Impact Statement:

Through multistakeholder dialogues, knowledge sharing, and capacity development, AICCRA supported more than 70 institutions across all six AICCRA countries to co-produce competency- and skills-based curricula targeting public and private extension providers to help farmers manage climate risk.

This multi-county effort was spurred by iterative co-development processes with Ethiopia's agricultural extension system (4, 5, 6, 7, 8) that culminated in a 10-day, 4-module Climate Risk Management in Agricultural Extension (CRMAE) curriculum (1, 2, 3) covering climate basics, available climate information and tools to support agriculture, climate-sensitive decision-making, and communication of climate information. The Ethiopian Ministries of Agriculture and of Labor and Skills are in the process of standardizing it nationally for all federal and regional Agricultural Technical and Vocational Education and Training (ATVET) colleges which train extension staff (8).

Building upon this positive example, targeted knowledge sharing of the Ethiopian experience (16, 17, 18) revealed a similar and strong demand for CRMAE curricula in Senegal, the co-development, pilot implementation, and mainstreaming of which are documented in a separate OICR.

Continuing the south-south exchange, the Senegal training of trainers of the CRMAE (19) included participation from Mali's Institute of Rural Economy (IER), which allowed a detailed understanding of the CRMAE curriculum structure and motivated the IER (23) to independently organize its own national curriculum consultative workshop with extension providers and achieve an endorsed action plan to adapt and pilot Mali's CRMAE curriculum in 2024 (22).

Building on experiences and lessons from Ethiopia, Senegal, and Mali, curriculum consultations and co-production processes in Kenya (10), Zambia (13), Ghana (20) followed, alongside validation and trainings of trainers of country-specific CRMAE curricula and locally-led implementation plans for each country (11, 14, 15, 21).

Beyond this, curriculum dialogues spurred sharing of digital innovations—such as the Climate Crop Suitability Maproom between Ethiopia (9), and Kenya (12)—between countries and catalyzed resolutions to leverage complementary initiatives like Kenya's national KilimoBora Mobile Learning Centre (11) to strengthen access and use of learning content beyond AICCRA target countries (25).

They also sparked strategic conversations on how regional organizations (24, 26) and higher education institutions (24) can accelerate scaling of such resources. "I believe this curriculum [initiative] will provide the opportunity for higher education to interface with local communities to support resilience and build additional capacity," said Dr. Jonathan Mbwambo, Inter-University Council for East Africa (IUCEA), which oversees higher education curriculum for sustainable regional development, following an Africa-wide knowledge sharing workshop (24).

Reference and Evidence cited:

- 1. Dinku T., Grossi A., Hansen J., Nsengiyumva G., Siebert A., Trzaska S., Mangen, O., 2023. Climate Risk Management in Agricultural Extension Reference Guide. Palisades, NY, USA: International Research Institute for Climate and Society (IRI), Columbia Climate School. | <https://doi.org/10.7916/mzaj-zj74>
- 2. Dinku T, Grossi A, Hansen J, Nsengiyumva G, Siebert A, Trzaska S, Mangen O. 2023. Climate Risk Management in Agricultural Extension Handbook. Palisades, NY, USA: International Research Institute for Climate and Society (IRI), Columbia Climate School | <https://doi.org/10.7916/47sy-bq17>
- 3. Dinku T, Grossi A, Hansen J, Nsengiyumva G, Siebert A, Trzaska S. 2023. Climate Risk Management in Agricultural Extension Facilitators' Guide. Palisades, NY, USA: International Research Institute for Climate and Society (IRI), Columbia Climate School. | <https://hdl.handle.net/10568/127006>
- 4. Grossi A, Dinku T, Hansen J, Nsengiyumva G, Trzaska S, List G . 2021. Climate Risk Management in Agricultural Extension. AICCRA Workshop Report. | <https://hdl.handle.net/10568/116920>
- 5. Grossi A, Dinku T, Hansen J, Trzaska S, Nsengiyumva G. 2022. Climate Risk Management in Agricultural Extension (CRMAE) for Ethiopia's Agricultural Technical Vocational Education and Training (ATVET) Program. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/119799>
- 6. Grossi A, Dinku T, Hansen J, Trzaska S, Nsengiyumva G. 2022. Climate Risk Management in Agricultural Extension (CRMAE) Refresher Training. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/119798>
- 7. Grossi A, Dinku T. 2022. Training on Climate Risk Management in Agricultural Extension (CRMAE) for Ethiopian Meteorological Institute (EMI) staff from Regional Meteorological Service Centres (RMSC). Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/122036>
- 8. Grossi A, Dinku T, Hansen J, Belay B, Demissie T, Solomon D. 2023. Climate Risk Management in Agricultural Extension (CRMAE) Curriculum: Training of Trainers and Adaptation to the ATVET Program. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/130735>
- 9. Climate and Agriculture: Climate Suitability for Crops. Ethiopian Meteorological Institute | http://213.55.84.78:8082/python_maproom/crops_climate_suitability/
- 10. Grossi A, Dinku T, Hansen J. 2023. Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Kenya. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/130718>
- 11. Grossi A, Dinku T, Hansen J, Trzaska S, Ruirie O, Crane T. 2023. Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Kenya. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/135194> (External Author)
- 12. Climate and Agriculture: Climate Suitability for Crops. Kenya Meteorological Department. | <http://tinyurl.com/yvlnv37t>
- 13. Grossi A, Dinku T, Hansen J. 2023. Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/130693>
- 14. Grossi A, Dinku T, Hansen J, Mutenje M, Kasoma Pele W, Makungwe M. 2023. Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa

(AICCRA). | <https://hdl.handle.net/10568/135205>

- 15. Recap: Climate Risk Management in Agricultural Extension Curriculum in Zambia. YouTube. | <https://www.youtube.com/watch?v=SPBnTi7Uujs>
- 16. Hansen J, Trzaska S, Whitbread A, Worou N, Akinseye F, Diop M, Thiaw C, Ndiaye D, Konté O, Grossi A. 2022. Curriculum co-development to strengthen climate risk management capacity of Senegal's agricultural extension. AICCRA Info Note. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/125772> (External Author)
- 17. Braun M, Trzaska S, Hansen J, Grossi A, Konte O, Ndiaye D. 2022. Senegal Capacity Development Priorities for Climate Services. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/119783> (External Author)
- 18. List G, Trzaska S, Braun M, Hansen J, Grossi A. 2022. Senegal Climate Risk Management for Agriculture Curriculum Design Workshop. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/126800>
- 19. Grossi A, Braun M, Hansen J, Trzaska S, List G, Worou N. 2023. Climate Risk Management in Agricultural Extension (CRMAE) Curriculum: Training of Trainers for Senegal's Agricultural Extension System. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/130772>
- 20. List G, Hansen J, Trzaska S. 2023. Climate Risk Management for Agriculture Extension Curriculum Consultative Workshop in Ghana. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/134922>
- 21. Trzaska S, Hansen J, Marty F 2023. Climate Risk Management in Agricultural Extension Curriculum Training of Trainers Workshop in Ghana. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/136160> (External Author)
- 22. Doumbia S, Diallo A. Atelier National de consultation des parties prenantes pour l'élaboration d'un curriculum sur la gestion des risques climatiques pour l'agriculture dans le cadre du projet AICCRA-Mali. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <http://tinyurl.com/yynn4ohj3>
- 23. Letter from Mali's Institute of Rural Economy (IER). | <http://tinyurl.com/yt8rtzcm> (External Author)
- 24. Grossi A, Dinku T, Hansen J, Nakayiwa F, Mwanjalolo M, Crane T, Zougmore R, Solomon D. 2023. University Climate Curriculum Knowledge Sharing and Co-Design Workshop for RUFORUM Curriculum Platform. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA). | <https://hdl.handle.net/10568/132403> (External Author)
- 25. To Reach a Farmer: Foundational Curriculum to Manage Climate Risk Ripples Across Africa. AICCRA Blog. | <http://tinyurl.com/ywuhz5fs>
- 26. Letter of Collaboration Between the IRI and the Institute for Meteorological Training and Research World Meteorological Organization Regional Training Centre. | <http://tinyurl.com/yktp7l7e> (External Author)

Quantification: <Not Defined>

Gender, Youth, Capacity Development and Climate Change:

Gender relevance: 0 - Not Targeted

Youth relevance: 1 - Significant

Main achievements with specific **Youth** relevance: Training intended for extension workers, mainly of whom are youth.

CapDev relevance: 2 - Principal

Main achievements with specific **CapDev** relevance: Training of trainers, curriculum

Climate Change relevance: 1 - Significant

Describe main achievements with specific **Climate Change** relevance: Through facilitation of multistakeholder dialogues, knowledge sharing, and capacity development by AICCRA, more than 70 institutions across all six AICCRA countries collaborated within their respective countries to co-produce competency- and skills-based curricula targeting public and private extension providers to help farmers manage climate risk.

Other cross-cutting dimensions: No

Other cross-cutting dimensions description: <Not Defined>

Outcome Impact Case Report link: [Cluster OICR/MELIA #3605](#)

Contact person:

Steve Zebiak, Steve@iri.columbia.edu

5. Deliverables

D25569 - Munda Make Over Series 1-Ep 2: Mulching, Mixed livestock & legume, Seeds & working in a Cooperatives

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Soil Health: Mulching. 2. Mixed livestock and legume Production. 3. Seed: Quality and Storage. 4. Working in a Coop – Payments.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Mulching, Mixed livestock & legume, Seeds & working in a Cooperatives

Description / Abstract: Welcome to Munda Make Over. This week we're in Chudakwa in Eastern province and we are meeting another super smart woman, Farmer Elita Mwale. Elita is married to Sauti Manda and they live in eastern province. Sauti works in the town, so Elita is the one running the farm during the day. The farm covers 10 hectares. The main crops are maize, soya beans and ground nuts. They also have 10 chicken and 7 cows. We are learning about: 1. Soil Health: Mulching. 2. Mixed livestock and legume Production. 3. Seed: Quality and Storage. 4. Working in a Coop – Payments.

Publication / Creation date: Jan 16, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25570 - Munda Make Over Series 1-Ep 3: Climate smart seed, Fertiliser additive, Market and input deliveries

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Maize: • Climate smart seed • Fertiliser additive 2. Market Access. 3. Input Deliveries.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: • PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

• CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Climate smart seed, Fertiliser additive, Market and input deliveries

Description / Abstract: Welcome to Munda Make Over. This week we're in Chudakwa in Central province, and we're visiting Abison Hangoma. He is married to Alice Munga and they have 3 children. Their farm covers 15 hectares. And their main crops are maize, vegetables and rape. But they also have 14 cattle, and some. This week we're going to perform some magic. We like to think so, but this is special. We're going to see how something very small, turns into something really humongous, huge! How a tiny seed, can turn into a massive profit! Let's go and see: 1. Maize: • Climate smart seed • Fertiliser additive 2. Market Access. 3. Input Deliveries.

Publication / Creation date: Jan 16, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25571 - Munda Make Over Series 1-Ep 4: Climate Seed, Crop Boost, Dairy and Insurance

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Climate Seed Resilience. 2. Fertiliser: Crop boost. 3. Dairy Feed. 4. Insurance.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: • CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
• CSA Outcome: IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)
• PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Climate Seed, Crop Boost, Dairy and Insurance

Description / Abstract: Welcome to Munda Make Over. Do you think you're a risk taker? Well, a small amount of risk can be a good thing, if it leads to bigger profits but what if it doesn't, and things go wrong? Because of unforeseen events, like the impact of climate change, Well that's why this week we're looking at minimizing risk And see how we can avoid disasters, like if there's no rain – or there's massive floods This week we're in Chuni in Central province and we're visiting William Chenda. William is married to Mary and they have 5 children. Their farm covers 3 and a half hectares. Main crops are Maize, tomatoes and onions and they have 60 cows too! Let's go and learn about: 1. Climate Seed Resilience. 2. Fertiliser: Crop boost. 3. Dairy Feed. 4. Insurance.

Publication / Creation date: Mar 29, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25572 - Munda Make Over Series 1-Ep 5: Groundnut production, Bee Keeping, Agro-Forestry & Financial Literacy

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Groundnut production. 2. Bee Keeping. 3. Agro-Forestry: Gliricidia. 4. Financial Literacy.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Groundnut production, Bee Keeping, Agro-Forestry & Financial Literacy

Description / Abstract: Welcome to Munda Make Over. Can I ask you a personal question? Have you ever done something you've regretted? That's the story we're covering this week. Let our farmer tell us!! This week we're in Kankoma village in Eastern province and we're visiting Standwell Chirwa. He is married to Martha and they have 7 children. Their farm covers 5 hectares. Favorite crops are Soya beans, groundnuts and sunflower. With maize, rape, cabbage and tomatoes too. Let's go and learn about: 1. Groundnut production. 2. Bee Keeping. 3. Agro-Forestry: Gliricidia. 4. Financial Literacy.

Publication / Creation date: Jan 17, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D24823 - Lessons learned on impact of CIS training conducted under AICCRA

General Information

Description: This deliverable will capture the impact and value of the training conducted under AICCRA by ZMD. This may include any recommendations for follow up activities or areas that require improvements.

Category: Reports and other publications

Sub Category: Outcome note

Deliverable Status: Cancelled

Year of expected completion: 2022

Justification of new expected date of completion: The Zambia metrological department (ZMD) just received the training in November 2022 hence have not yet provided feedback on the lessons learnt on the training the received. Apart from that, some trainings were moved to 2023 hence this deliverable on lessons learnt will be done in 2023.

Cluster Activities: • 2.3.1 Support strengthening of national meteorological real-time services

Performance Indicators: • KS Outcome: 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 express (%)

• KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

• PD Outcome: IPI 2.4: Satisfaction with the effectiveness of the partnerships under AICCRA expressed by surveyed partners and stakeholders(%)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters: • EA

• Theme 4

Funding source(s):

• (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

• Gender (1 - Significant)

• Youth (1 - Significant)

Partners contributing to this deliverable: • AICCRA Theme 4 COLUMBIA

Deliverable dissemination

Is this deliverable already disseminated?: No

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: TBC

Description / Abstract: TBA

Publication / Creation date: TBA

Citation: TBA

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
ZMD - Zambia Meteorological Department	Sinachikupo, Kenneth <sinachikupo@gmail.com>	Responsible

D24575 - AICCRA I2G Open Innovation Challenge - Internship and Grant Opportunity: Post Sprint and Ideation Lab Report

General Information

Description: AICCRA I2G Open Innovation Challenge - Internship and Grant Opportunity: Post Sprint and Ideation Lab Report

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities:

- 2.3.2 Enhance the capacity of public institutions and private firms to provide climate service delivery models
- 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains
- 2.3.3 Build capacity in three focus countries of public and private sector next users to support implementation of CSA technology packages

Performance Indicators:

- KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)
- PD Outcome: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR WorldFish - WorldFish

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137644>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: AICCRA I2G Open Innovation Challenge - Internship and Grant Opportunity: Post Sprint and Ideation Lab Report

Description / Abstract: This activity is still in progress with chances of being cancelled.

Publication / Creation date: TBA

Citation: Silwizya D. 2023. AICCRA I2G Open Innovation Challenge - Internship and Grant Opportunity: Post Sprint and Ideation Lab Report. AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/137644>

DOI: <Not Provided>

Creator / Authors:

- Silwizya - Dorus

Deliverable Quality check

FAIR Compliant: **F A I R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Makungwe, Mirriam <m.makungwe@cgiar.org>	Responsible

D24453 - Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia

General Information

Description: Development of an air-water temperature relationship algorithm to enable forecasting of pond water temperatures using air temperature trend data; and Draft paper Manuscript in collaboration with WorldFish. .

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2022

Cluster Activities: • 1.3.1 Development of ag-data hubs and decision support systems
• 1.3.2 Strengthening digital climate advisory services in Eastern and Southern Africa

Performance Indicators: • KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics • CGIAR WorldFish - WorldFish

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137805>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia

Description / Abstract: This paper presents a temperature-based early warning alert system for fish farmers in Zambia. The decision support tool indicating the conditions under which air temperatures

may result in a normal, high risk or emergency scenario, combined with the monitoring and management mitigations recommended under each scenario. During model development, five models were compared, including linear regression, stochastic regression, deep learning, random forest, and decision tree. The data was modelled for a pond designed according to best aquaculture practices, and therefore, pond size and pond depth are constants.

Publication / Creation date: TBA

Citation: TBA

Handle: <https://hdl.handle.net/10568/137805>

DOI: <Not Provided>

Creator / Authors:

- Stander - Henk
- Greengrass - Catherine
- Oladejo - Sunday
- Watson - Bruce
- Nel - Aldi
- Salie - Khalid
- Mudege - Netsayi Noris
- Kakwasha - Keagan
- Lundeba - Mary
- Hossain - Rumana Peerzadi
- Siamudaala - Victor

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR WorldFish - WorldFish	Mudege, Netsayi <n.mudege@cgiar.org>	Responsible

D24454 - Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM)

General Information

Description: Conduct a stakeholder consultation with key partners, such as the Ministry of Green Economy and Environment (MGEE), facilitated through the Zambia Meteorological Department (ZMD). The objective of this multistakeholder consultation is to formulate a National Framework for Weather, Water, and Climate Services (NFWWCS) for Zambia. This workshop should align with the procedural steps outlined in the World Meteorological Organization's (WMO) Step-By-Step Guidelines for National Framework for Weather, Water, and Climate Services (NFWWCS).

Category: Trainings and other materials

Sub Category: Capacity Development Event

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 2.3.4 Develop existing or strengthen new National Frameworks for Climate Services (NFCS)

● 2.3.1 Support strengthening of national meteorological real-time services

Performance Indicators: ● PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

● PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

● CSA Outcome: IPI 3.5: Policy and investment decisions influenced by engagement and information dissemination by AICCRA funded partnerships and capacity building activities (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

● (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

● Gender (1 - Significant)

● Youth (1 - Significant)

Partners contributing to this deliverable: ● CGIAR WorldFish - WorldFish ● CGIAR IWMI - International Water Management Institute

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137749>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: Yes

Participants and Trainees

Event/Activity name: Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM)

Type of Activity: Knowledge exchange

Total number of Participants/Trainees: 78.0

Number of females: 21.0

Number of africans: 70.0

Number of youth: 12.0

Type of Participant(s)/Trainee(s): Mixture of participant types

Describe the focus of the event: Stakeholder Engagement for a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM)

Describe the likely outcomes from the event: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM)

Deliverable Metadata

Disseminated title: Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM)

Description / Abstract: The Ministry of Green Economy and Environment (MGEE), through the Zambia Meteorological Department (ZMD), hosted a three-day national stakeholder's consultation workshop at the Urban Hotel in Lusaka, Zambia, from November 14 to 16, 2023, to develop a National Framework for Weather, Water, and Climate Services (NFWWCS) for Zambia. This workshop was held in accordance with the NFWWCS steps as provided by the World Meteorological Organization's (WMO) Step-by-Step Guidelines for the National Framework for Weather, Water, and Climate Services.

Publication / Creation date: November 2023

Citation: Mamadi & Company. 2023. Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM).

Handle: <https://hdl.handle.net/10568/137749>

DOI: <Not Provided>

Creator / Authors:

- Mamadi and Company

Partners contributing to this deliverable:

Institution	Partner	Type
ZMD - Zambia Meteorological Department	Sinachikupo, Kenneth <sinachikupo@gmail.com>	Responsible

D25102 - Tilapia Decision Support Tool

General Information

Description: Develop a decision support tree for widely cultivated Tilapia fish species in Northern and Luapula provinces in Zambia. This will involve developing an algorithm of air-water temperature relationship for the decision support system. The decision system will be based on temperature to provide an early warning system on the favorable and unfavorable temperature to produce fish.

Category: Data, models and tools

Sub Category: Software

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 1.3.1 Development of ag-data hubs and decision support systems

Performance Indicators: • KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Geographic scope: • Sub-national

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (N/A - Not applicable)
- Youth (N/A - Not applicable)

Partners contributing to this deliverable: • CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137809>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Tilapia Decision Support Tool

Description / Abstract: The tilapia decision support tool presents a temperature-based early warning alert system for fish farmers in Zambia. The decision support tool indicating the conditions under which air temperatures may result in a normal, high risk or emergency scenario, combined with the monitoring and management mitigations recommended under each scenario. During model

development, five models were compared, including linear regression, stochastic regression, deep learning, random forest, and decision tree. The data was modelled for a pond designed according to best aquaculture practices, and therefore, pond size and pond depth are constants.

Publication / Creation date: November 2023

Citation: Stander H, Greengrass C, Oladejo S, Watson B, Nel A, Salie K, Mudege N, Kakwasha K, Lundeba M, Hossain R, Siamudaala V . 2023. Tilapia Decision Support Tool. AICCRA Multimedia. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/137809>

DOI: <Not Provided>

Creator / Authors:

- Stander - Henk
- Greengrass - Catherine
- Oladejo - Sunday
- Watson - Bruce
- Nel - Aldi
- Salie - Khalid
- Mudege - Netsayi Noris
- Kakwasha - Keagan
- Lundeba - Mary
- Hossain - Rumana Peerzadi
- Siamudaala - Victor

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR WorldFish - WorldFish	Mudege, Netsayi <n.mudege@cgiar.org>	Responsible

D24474 - Integrated, economically viable CSA technology packages co-designed, piloted and up-scaled for high potential areas reaching out to at least 50,000 farmers

General Information

Description: 4 integrated, economically viable CSA technology packages co-designed, piloted and up-scaled •CSA technology packages identified (through economic ex-ante impact assessment with local partners to inform priorities for policy amendment at local, national and regional levels) and promoted. •Building in-country capacity on integrated climate/crop/livestock/economic modeling and decision / policy support validated CSA packages under the accelerator program. The technologies are: CSA bundle 1: Sustainable off-grid solar irrigation technologies CSA bundle 2: Integrated aquaculture agriculture system CSA bundle 3: Climate resilient seed varieties CSA bundle 4: Small livestock and legume systems

Category: Reports and other publications

Sub Category: Working Paper

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 2.3.3 Build capacity in three focus countries of public and private sector next users to support implementation of CSA technology packages
• 3.3.4 Develop and promote climate-smart agricultural investment plans in East Africa

Performance Indicators: • PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)
• KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)
• CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR IITA - International Institute of Tropical Agriculture • CGIAR WorldFish - WorldFish • CGIAR IWMI - International Water Management Institute • Ministry of Agriculture (Zambia) • Ministry of Fisheries and Livestock (Zambia)

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/130745>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Impact of CSA technology packages on smallholder farmers under the accelerator program in Zambia

Description / Abstract: The primary goal of this report is to provide evidence on the impact of CSA technology packages on smallholder farmers under the accelerator programme in Zambia. The AICCRA Zambia accelerator program tested various CSA technology packages, designed and implemented through agribusiness partnerships, SME bundles. The SME bundles were selected through a competitive process for the packages to address major challenges for CSA in Zambia and covering major agricultural production systems in Zambia. Each bundle was supported by a 50,000-USD grant.

Publication / Creation date: 2023-06-14

Citation: Homann-Kee Tui S, Kakwasha K, Wilkinson M, Chongo C, Hang'ombe B, Zulu S, Mubanga C, Moyo M, Jacobs-Mata I. 2023. Impact of CSA technology packages on smallholder farmers under the accelerator program in Zambia. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/130745>

DOI: <Not Provided>

Creator / Authors:

- Homann-Kee Tui - Sabine
- Kakwasha - Keagan
- Wilkinson - Melanie
- Chongo - Collins
- Hang'ombe - Botany
- Zulu - Samuel
- Mubanga - Casco
- Moyo - Martin
- Jacobs-Mata - Inga

Deliverable Quality check

FAIR Compliant: **F A I R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics	Homann, S <s.homann@cgiar.org>	Responsible

D25116 - Training report for AICCRA partners and users on the use of climate data and information for climate risk management

General Information

Description: IRI will carry out a training to build the capacity of AICCRA Zambia national partners and users on the use of climate data and information climate risk management. Recently, IRI is developing competency-based training curricula, which defines what trainees can do after the course.

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Cancelled

Year of expected completion: 2023

Justification of new expected date of completion: It is the same as D25405

Cluster Activities:

- 2.3.1 Support strengthening of national meteorological real-time services
- 2.3.2 Enhance the capacity of public institutions and private firms to provide climate service delivery models

Performance Indicators:

- PD Outcome: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

Geographic scope:

- National

Country(ies):

- Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (0 - Not Targeted)

Partners contributing to this deliverable:

- ZMD - Zambia Meteorological Department

Deliverable dissemination

Is this deliverable already disseminated?: No

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: TBA

Description / Abstract: This training of trainers (ToT) of Zambia's extension and advisory service (EAS) providers will happen August 14-29. It is the next step following the curriculum consultative

workshop.

Publication / Creation date: TBA

Citation: TBA

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
AICCRA Theme 4 COLUMBIA	Dinku, Tufa <tufa@iri.columbia.edu>	Responsible

D24988 - Inception Report: Development of the national framework for weather, water; and (ii) climate services (NFWCS) for Zambia

General Information

Description: AICCRA will develop the National Framework for Weather, Water and Climate Services (NFWCS) which will enable better management of the risks of climate variability and change at all levels, through development and incorporation of science-based weather and climate information and prediction services into planning, policy, and practice. NFCS will be developed into NFWCS as an institutional mechanism to coordinate, facilitate and strengthen collaboration among national institutions to improve the co-Production, tailoring, delivery and use of science-based weather, water, and climate predictions and services by focusing on the five Global Framework for Climate Services (GFCS) pillars.

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 2.3.4 Develop existing or strengthen new National Frameworks for Climate Services (NFCS)

Performance Indicators: • CSA Outcome: IPI 3.5: Policy and investment decisions influenced by engagement and information dissemination by AICCRA funded partnerships and capacity building activities (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (0 - Not Targeted)
- Youth (0 - Not Targeted)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137745>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Develop national framework for weather, water; and (ii) climate services (NFCS) for Zambia

Description / Abstract: This inception report details the approach that will be conducted in the completion of the project, which is spread across ten work packages designed to deliver on the work objectives. The approach seeks to bring about delivery excellence to enable the full implementation of the Development of a National Framework for Weather, Water, and Climate Services (NFWCS-ZM) for Zambia.

Publication / Creation date: 2023

Citation: Mamadi and Company. 2023. Inception Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM). AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/137745>

DOI: <Not Provided>

Creator / Authors:

- Mamadi and Company

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25120 - Training material (curriculum development) for AICCRA partners and users on the use of climate data and information for climate risk management

General Information

Description: IRI has over 20 years experience in training on use of climate information for different sectors. Recently, IRI is developing competency-based training curricula, which defines what trainees can do after the course. These curricula, which also covers climate basics, would be adapted for users in AICCRA-Zambia focus areas.

Category: Trainings and other materials

Sub Category: Training Material

Deliverable Status: Cancelled

Year of expected completion: 2023

Justification of new expected date of completion: It has been canceled due to limited budget.

Cluster Activities:

- 2.3.1 Support strengthening of national meteorological real-time services
- 2.3.2 Enhance the capacity of public institutions and private firms to provide climate service delivery models

Performance Indicators:

- PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope:

- National

Country(ies):

- Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (N/A - Not applicable)
- Youth (N/A - Not applicable)

Partners contributing to this deliverable:

- ZMD - Zambia Meteorological Department

Deliverable dissemination

Is this deliverable already disseminated?: No

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: It is still under development in the leadup to the August training.

Description / Abstract: This curriculum will be completed prior to the August 14-29 ToT of Zambia's

extension and advisory service (EAS) providers. It is still under development in the leadup to the August training.

Publication / Creation date: TBA

Citation: TBA

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
AICCRA Theme 4 COLUMBIA	Dinku, Tufa <tufa@iri.columbia.edu>	Responsible

D24500 - AICCRA CSA-Bundle two Lesson Learned Workshop Report

General Information

Description: Reflect on the project's experiences, successes, challenges, and outcomes to identify valuable insights and takeaways. This reflection will inform future work on implementing the AICCRA CSA-Bundle, collaborating with the two accelerator partners focusing on integrated aquaculture-agriculture systems in Luapula and the Northern Provinces of Zambia.

Category: Reports and other publications

Sub Category: Outcome note

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

● PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

● PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: ● Ministry of Fisheries and Livestock (Zambia) ● CGIAR WorldFish - WorldFish

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/138895>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: Yes

Participants and Trainees

Event/Activity name: ICCRA CSA-Bundle two Lesson Learned Workshop Report

Type of Activity: Knowledge exchange

Total number of Participants/Trainees: 36.0

Number of females: 8.0

Number of africans: 36.0

Number of youth: 10.0

Type of Participant(s)/Trainee(s): Farmer/Producer

Describe the focus of the event: Several presentations were made during the workshop, including: 1. the experience of training smallholders on integrating aquaculture with small livestock and providing extension services, 2. the experience of providing inputs to smallholder farmers, 3. the experience of linking farmers to output markets, 4. the experience of gender, inclusion and dissemination of CIS information, and 5. the experience of implementing the AICCRA innovation challenge and internship grant.

Describe the likely outcomes from the event: Documentation of the experiences, knowledge, successes, and insights gained from the project.

Deliverable Metadata

Disseminated title: AICCRA CSA-Bundle two Lesson Learned Workshop Report

Description / Abstract: This report presents the outcome of the lessons learned workshop organized by WorldFish in partnership with the AICCRA CSA-Bundle two Accelerator partners working on integrated aquaculture-agriculture systems in Luapula and the Northern Provinces of Zambia. The main aim of the workshop was to reflect on the experiences, successes, challenges and outcomes of the project to identify valuable insights and takeaways to inform future work. The workshop was held at Sali's Resort in Mansa on August 30th and 31st, August 2023, and 36 people (8 women) participated. The participants were drawn from the AICCRA accelerator partners, farmer cooperatives, the department of fisheries, commercial feed millers, and other private sector companies.

Publication / Creation date: 2023-09-30

Citation: Netsayi N. Mudege, Henry Kanyembo, Mercy Sichone, Keagan Kakwasha, Agness Chileya, and Lizzy Muzungaire, 2023. AICCRA CSA-Bundle two Lesson Learned Workshop Report. Penang, Malaysia: WorldFish. Stakeholder Workshop Report.

Handle: <https://hdl.handle.net/10568/138895>

DOI: <Not Provided>

Creator / Authors:

- Mudege - Netsayi
- Kanyembo - Henry
- Sichone - Mercy
- Kakwasha - Keagan
- Chileya - Agness
- Muzungaire - Lizzy

Deliverable Quality check

FAIR Compliant: **F A I R**

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR WorldFish - WorldFish	Mudege, Netsayi <n.mudege@cgiar.org>	Responsible

D24503 - Multi-stakeholder Dialogue Report on scaling CSA and climate services/data/innovations

General Information

Description: Summary of annual dialogue held under the Multi-Stakeholder Dialogue Space

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 2.3.1 Support strengthening of national meteorological real-time services

Performance Indicators: • PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

• PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

Geographic scope: • National

Country(ies): • Zambia

Region(s): • Sub-Saharan Africa

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR IITA - International Institute of Tropical Agriculture • CGIAR WorldFish - WorldFish • ZARI - Zambia Agriculture Research Institute • CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics • Ministry of Agriculture (Zambia) • Ministry of Fisheries and Livestock (Zambia) • ZMD - Zambia Meteorological Department • AICCRA EA ILRI

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/130784>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: Yes

Participants and Trainees

Event/Activity name: Multi-stakeholder Dialogue Report on scaling CSA and climate services/data/innovations: Chitetezo Cooperatives Federation, Eastern Zambia

Type of Activity: Formal Training: One-off training event

Total number of Participants/Trainees: 36.0

Number of females: 6.0

Number of africans: 36.0

Number of youth: 8.0

Type of Participant(s)/Trainee(s): Value chain actor

Describe the focus of the event: The MSD's aim was to strengthen the Chitetezo Cooperatives Federation's (CCF) capacity to pursue its vision: To reduce poverty through nature-based solutions and agribusiness, driven by the CCF as a self-organised sustainable cooperative movement in cooperation with COMACO. The dialogue centred around three core areas that require attention, investments, and networking to pursue this vision: (i) Agri-business capacity and leadership: Strong leadership and governance systems and financial sustainability involving resource mobilisation are key for CCF to advance the cooperatives to profitable and self-sustaining entities. Identifying new and improving existing agri-businesses, building leadership, lobbying, and resource mobilisation capacity, and attracting new competences within the CCF are key areas that CCF members are committed to engaging in. (ii) Seed systems and grain markets: Improving the capacity of CCF farmers in seed multiplication as the main business and source of income for CCF while reaching out to cooperatives not yet involved in seed business Branded seed packs are to be produced according to market requirements through agri-business incubation in cooperation with organisations such as the Seed Control and Certification Institute (SCCI), consultants, and ICRISAT. (iii) Climate advisory services: It was highlighted that area-specific forecasts and advisories are missing, while the market is flooded by Apps and tools that are not validated. In collaboration with the Zambia Meteorological Department (ZMD), rain gauges will be installed in all camps to validate the forecasts, and ZICTA will monitor and regulate the implementation of Apps. Forecast seasons to extend to May to include post-harvest management decisions.

Describe the likely outcomes from the event: Value chain actors in Eastern Zambia are expected to buy into the MSD agenda, with business partners and farmers prioritising their challenges for discussion at the MSD and inviting experts and motivational speakers from the province and from the national level to broaden their perspectives. By doing so, the value chain actors would collaboratively revise their goal, progress, and critical obstacles, as well as construct a feasible action plan with clear directives for Chitetezo Cooperatives Federation members and partners.

Deliverable Metadata

Disseminated title: Multi-stakeholder Dialogue Report on scaling CSA and climate services/data/innovations

Description / Abstract: This Multi-Stakeholder Dialogue (MSD) was held on June 13, 2023, in Chipata, Eastern Zambia, as an opportunity for the Bundle 4 Accelerator Partnership, Diversified Integrated Mixed Chickens and Goats (Legume Systems), to reflect on progress and challenges and set new milestones for advancing agri-business, climate-smart agricultural practises, and information services. The MSD was hosted by the Chitetezo Cooperative Federation (CCF) and attended by CCF board members, coordinators, and farmers, as well as Community Markets for Conservation (COMACO)

representatives; provincial government and advisory services; agriculture, forestry, seed systems, and fisheries provided technical knowledge and feedback to the discussions; provincial media covered the event. The CCF, in collaboration with COMACO, promotes inclusive agri-business development with strong participation of women in leadership and implementation. The CCF chair and several board members are women; more than 50% of women participate in activities, and several were present at the MSD. Promoting CCF means strengthening women in agribusiness and climate-smart agriculture. The MSD's aim was to strengthen the CCF's capacity to pursue its vision: To reduce poverty through nature-based solutions and agribusiness, driven by CCF as a self-organised sustainable cooperative movement in cooperation with COMACO. The dialogue centred around three core areas that require attention, investments, and networking to pursue this vision: (a) Agri-business capacity and leadership: strong leadership and governance systems and financial sustainability involving resource mobilisation are key for CCF to advance the cooperatives to profitable and self-sustaining entities. Identifying new and improving existing agri-businesses, building leadership, lobbying, and resource mobilisation capacity, and attracting new competences within the CCF are key areas that CCF members are committed to engaging in. (b) Seed systems and grain markets: improving the capacity of CCF farmers in seed multiplication as the main business and source of income for CCF while reaching out to cooperatives not yet involved in seed business. Branded seed packs are to be produced according to market requirements through agri-business incubation in cooperation with organisations such as the Seed Control and Certification Institute (SCCI), consultants, and ICRISAT. (c) Climate advisory services: It was highlighted that area-specific forecasts and advisories are missing, while the market is flooded by apps and tools that are not validated. In collaboration with the Zambia Meteorological Department (ZMD), rain gauges will be installed in all camps to validate the forecasts, and ZICTA will monitor and regulate the implementation of apps. Forecast seasons to extend to May to include post-harvest management decisions. In addition, presentations by ZMD and the Ministry of Livestock and Fisheries informed the CCF planning process. For CCF to drive the process that leads to their sustainability strategy, the working groups established detailed workplans and feedback mechanisms.

Publication / Creation date: 2023-06-20

Citation: Homann-Kee Tui S, Mutenje M, Dube T, Makungwe M, Ngwira A. 2023. Multi-stakeholder Dialogue Report on scaling SA and climate services/data/innovations. AICCRA Reports. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/130784>

DOI: <Not Provided>

Creator / Authors:

- Homann-Kee Tui - Sabine
- Mutenje - Munyaradzi
- Dube - Thabani
- Makungwe - Mirriam
- Ngwira - Amos

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

CGIAR IWMI - International Water
Management Institute

Mutenje, Munyaradzi
<m.mutenje@cgiar.org>

Responsible

D24504 - 1 catalogue of climate services training materials, co-developed and updated with users, supporting the awareness and upscaling of CSA and CIS

General Information

Description: To reach farmers at scale, the project will train intermediaries and communicators (media, journalists, rural radios, CBOs, NGOs, etc.) to serve as the conveyors of CIS to farmers, and voice farmer queries back to climate service providers.

Category: Outreach products

Sub Category: Infographic

Deliverable Status: Cancelled

Year of expected completion: 2023

Justification of new expected date of completion: It is a duplicate of D24513

Cluster Activities: • 1.3.2 Strengthening digital climate advisory services in Eastern and Southern Africa

• 2.3.3 Build capacity in three focus countries of public and private sector next users to support implementation of CSA technology packages

• 2.3.2 Enhance the capacity of public institutions and private firms to provide climate service delivery models

Performance Indicators: • PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

• PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: • Regional

Country(ies): • Zambia

Region(s): • Southern Africa

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR IITA - International Institute of Tropical Agriculture • CGIAR IWMI - International Water Management Institute • AICCRA Theme 4 COLUMBIA

Deliverable dissemination

Is this deliverable already disseminated?: No

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: TBA

Description / Abstract: TBA not yet complete

Publication / Creation date: TBA

Citation: TBA

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics	Homann, S <s.homann@cgiar.org>	Responsible

D25405 - Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia

General Information

Description: Conduct a multistakeholder consultative workshop in close collaboration with the International Research Institute for Climate and Society (IRI) of the Columbia Climate School and the International Water Management Institute (IWMI). The workshop, which was organized as part of the World Bank's Accelerating the Impact of CGIAR Climate Research for Africa (AICCRA) project.

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

● PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters: ● Theme 4

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/130693>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: Yes

Participants and Trainees

Event/Activity name: Multistakeholder consultative workshop: Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia

Type of Activity: Formal Training: One-off training event

Total number of Participants/Trainees: 15.0

Number of females: 4.0

Number of africans: 15.0

Number of youth: 3.0

Type of Participant(s)/Trainee(s): Researcher

Describe the focus of the event: The workshop focused on Climate Risk Management in Agricultural Extension. It involved detailed presentation of the structure and content types of the curricular materials developed in Ethiopia and Senegal, as well as a comparative discussion to assess similarities and differences of Zambia's needs, enabling environment, and resources with these other African countries where curricular materials on the topic of climate risk management in agricultural extension (CRMAE) have been developed through the AICCRA project.

Describe the likely outcomes from the event: All 15 participants representing Zambia's main EAS providers actively partook in discussions around the adaptation of the CRMAE curriculum for the Zambian context. A summary of these discussions and recommendations is outlined in the report, alongside the main findings from the SWOT analysis activity that was conducted.

Deliverable Metadata

Disseminated title: Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia

Description / Abstract: A three-day multistakeholder consultative workshop was convened from March 1 to March 3, 2023, in Lusaka, Zambia by the Zambia Meteorological Department (ZMD), in close collaboration with the International Research Institute for Climate and Society (IRI) of the Columbia Climate School and the International Water Management Institute (IWMI). The workshop, which was organized as part of the World Bank's Accelerating the Impact of CGIAR Climate Research for Africa (AICCRA) project, brought together 15 participants representing agricultural extension and advisory service (EAS) providers across Zambia to co-design a curriculum to support climate risk management in agricultural extension.

Publication / Creation date: 2023-03-30

Citation: Grossi A, Dinku T, Hansen J. 2023. Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/130693>

DOI: <Not Provided>

Creator / Authors:

- Grossi - Amanda
- Dinku - Tufa
- Hansen - James

Deliverable Quality check

FAIR Compliant: **F A I R**

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Partners contributing to this deliverable:

Institution	Partner	Type
AICCRA Theme 4 COLUMBIA	Dinku, Tufa <tufa@iri.columbia.edu>	Responsible

D24638 - Addition of climate variables to ZMD's gridded climate datasets

General Information

Description: At least three additional climate variables added to ZMD's gridded climate datasets: 2022

Category: Data, models and tools

Sub Category: Database

Deliverable Status: Complete

Year of expected completion: 2022

Cluster Activities: • 2.3.1 Support strengthening of national meteorological real-time services

Performance Indicators: • KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters: • Theme 4

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (0 - Not Targeted)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137642>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Addition of climate variables to ZMD's gridded climate datasets

Description / Abstract: ZMD's ENACTS datasets were updated and now include the following variables: Precipitation (daily), Precipitation (decadal), Maximum Temperature, Minimum Temperature, Mean Relative Humidity, Surface Pressure, Pressure Reduced at Mean Sea Level, Solar Radiation, Wind Speed at 10 meters, Reference evapotranspiration using FAO Penman-Monteith equation.

Publication / Creation date: December 2023

Citation: International Research Institute for Climate and Society. 2023. Addition of climate variables

to ZMD's gridded climate datasets. AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/137642>

DOI: <Not Provided>

Creator / Authors:

- International Research Institute for Climate and Society

Deliverable Quality check

FAIR Compliant: **F A I R**

Process of data quality assurance: • Yes, but not documented

Data dictionary: • No

Are the tools used for data collection available (e.g. surveys, data analysis scripts, training materials, etc.)?: • No

Partners contributing to this deliverable:

Institution	Partner	Type
AICCRA Theme 4 COLUMBIA	Dinku, Tufa <tufa@iri.columbia.edu>	Responsible

D24511 - Lessons learned report: Incubator/accelerator grant mechanism and internship program

General Information

Description: Evaluation report of incubator/accelerator grant mechanism and internship program and its two dimensions of strengthening capacity of 1). CIS delivery and 2). CSA scaling.

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 2.3.3 Build capacity in three focus countries of public and private sector next users to support implementation of CSA technology packages

- 3.3.3 Integrate climate-smart options and tailored CSI advisory systems for specific value chains
- 2.3.2 Enhance the capacity of public institutions and private firms to provide climate service delivery models

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

● PD Outcome: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

● KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (2 - Principal)

Partners contributing to this deliverable: ● CGIAR IITA - International Institute of Tropical Agriculture ● BongoHive ● CGIAR IWMI - International Water Management Institute ● CGIAR WorldFish - WorldFish

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/130782>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: AICCRA Internship Program: Pause and Reflect Report

Description / Abstract: The overall objective of the internship program is to expose university students and/or graduates to practical skills necessary for gainful employment and entrepreneurship over a period of 2 to 6 months. By employing interns, EDGE will address SMEs' critical gaps and build their capacities to diversify their networks, increase the quality of their products, enhance their visibility, and identify new markets, which in turn, should increase SMEs' sales, profits, and access to finance opportunities.

Publication / Creation date: 2023-06-20

Citation: ACIDI/VOCA, IWMI. 2023. AICCRA Internship Program: Pause and Reflect Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/130782>

DOI: <Not Provided>

Creator / Authors:

- ACIDI/VOCA
- International Water Management Institute

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Makungwe, Mirriam <m.makungwe@cgiar.org>	Responsible

D24641 - Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia

General Information

Description: New climate information products developed in consultation with users from the Zambia Metrological Department (ZMD) and AICCRA partners (to be interfaced with iSAT/other tools).

Category: Trainings and other materials

Sub Category: Capacity Development Event

Deliverable Status: Complete

Year of expected completion: 2022

Cluster Activities: • 1.3.1 Development of ag-data hubs and decision support systems
• 1.3.2 Strengthening digital climate advisory services in Eastern and Southern Africa

Performance Indicators: • CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
• PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters: • Theme 4

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (0 - Not Targeted)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/135205>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: Yes

Participants and Trainees

Event/Activity name: Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia

Type of Activity: Formal Training: One-off training event

Total number of Participants/Trainees: 25.0

Number of females: 7.0

Number of africans: 25.0

Number of youth: 3.0

Type of Participant(s)/Trainee(s): Researcher

Describe the focus of the event: 1. Strengthen knowledge of seasonal and sub-seasonal forecasting tools: Global Climate Models (GCMs) and observed data, statistical methods 2. Introduce PyCPT 2.5: Structure, inputs, outputs, workflow, examples, automation. 3. Configure and run PyCPT 2.5 to make the best seasonal and subseasonal forecasts of precipitation and related quantities in participants' home countries, including forecast verification. 4. Capitalize on GCM forecast products from WMO Global Producing Centers and U.S. research centers, accessible through the IRI Data Library (NMME, C3S, S2S, and SubX databases), as well as online global precipitation datasets and off-line prediction data files

Describe the likely outcomes from the event: Improved seasonal rainfall forecasts and provided improved climate products to various stakeholders in different sectors in Zambia. The area-specific forecast generated (in terms of rainfall characteristics) has helped make informed decisions at the sectoral level.

Deliverable Metadata

Disseminated title: Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia

Description / Abstract: Climate change and year-to-year climate variability have resulted in widespread, pervasive impacts to ecosystems and people in Africa, including increases in the intensity of weather extremes such as droughts and floods. While these shifting and varying temperature and precipitation patterns have affected the productivity of many climate-sensitive sectors, the agricultural sector has been the most impacted, resulting in reduced food availability and increased food prices, ultimately jeopardising food security, nutrition, and livelihoods of millions of people.

Publication / Creation date: August 2023

Citation: Grossi A, Dinku T, Hansen J, Mutenje M, Kasoma Pele W, Makungwe M. 2023. Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia. AICCRA Workshop Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/135205>

DOI: <Not Provided>

Creator / Authors:

- Grossi - Amanda
- Dinku - Tufa
- Hansen - Jim
- Mutenje - Munyaradzi
- Pele - Winnie Kasoma
- Makungwe - Mirriam

Partners contributing to this deliverable:

Institution	Partner	Type
-------------	---------	------

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

AICCRA Theme 4 COLUMBIA	Dinku, Tufa <tufa@iri.columbia.edu>	Responsible
-------------------------	--	-------------

D24513 - SSU video episodes and implementation of CSA technology packages in key value chains communications campaign

General Information

Description: This will entail the communication and dissemination of CSA technology scaling interventions in Zambia and will include various communication outputs such as videos, infographics, social media campaigns and brochures. AICCRA Zambia is promoting CSA packages led by the accelerator partners; validated during the MSD platform and these are: Sustainable financing for off-grid solar irrigation; integrated aquaculture-agriculture systems; climate smart seed varieties to address drought; diversified chicken and goat-legume systems; and Gender and Social Inclusion (GESI).

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 2.3.3 Build capacity in three focus countries of public and private sector next users to support implementation of CSA technology packages

Performance Indicators: ● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s): ● Southern Africa

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: ● CGIAR IWMI - International Water Management Institute

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/130744>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: SSU video episodes and implementation of CSA technology packages in key value chains communications campaign

Description / Abstract: This report presents Shamba Shape Up (SSU) video episodes and implementation of CSA technology packages in key value chains communications campaign in Zambia. To scale up climate delivery systems, several platforms (mobile phones, the internet, radio, and television) were used, leveraging their benefits.

Publication / Creation date: 2023-06-14

Citation: Homann-Kee Tui S, Pele W, Ngwira A, Jacobs-Mata I. 2023. SSU video episodes and implementation of CSA technology packages in key value chains communications campaign. AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/130744>

DOI: <Not Provided>

Creator / Authors:

- Homann-Kee Tui - Sabine
- Pele - Winnie
- Ngwira - Amos
- Jacobs-Mata - Inga

Deliverable Quality check

FAIR Compliant: **F A I R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics	Homann, S <s.homann@cgiar.org>	Responsible

D24642 - Workshop report for the training on the NextGen system for sub-seasonal rainfall forecast

General Information

Description: Trained ZMD staff, users, and AICCRA partners on climate basics and the use of ENACTS maprooms: 2023

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Cancelled

Year of expected completion: 2023

Justification of new expected date of completion: Is now reported under D26019 (under Theme 4 with Zambia tag)

Cluster Activities: • 2.3.1 Support strengthening of national meteorological real-time services

Performance Indicators: • PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

• KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR IWMI - International Water Management Institute

Deliverable dissemination

Is this deliverable already disseminated?: No

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: TBA

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Description / Abstract: This NextGen sub-seasonal and seasonal (PyCPT2.5) training workshop will take place Sep 5-22 in New York as an Africa-wide workshop with all AICCRA core countries (as well as non-AICCRA countries) including Zambia. We have 4 confirmed participants from ZMD who will travel to New York.

Publication / Creation date: TBA

Citation: TBA

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
AICCRA Theme 4 COLUMBIA	Dinku, Tufa <tufa@iri.columbia.edu>	Responsible

D24644 - Zambia Report on the Africa Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting

General Information

Description: Zambia Report on the Africa Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 1.3.2 Strengthening digital climate advisory services in Eastern and Southern Africa

Performance Indicators: • PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (N/A - Not applicable)
- Youth (N/A - Not applicable)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137643>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Zambia Report on the Africa Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting

Description / Abstract: This training focused on generation of high-resolution sub-seasonal rainfall forecast. The objective of the training was to strengthen knowledge of seasonal and sub-seasonal forecasting tools: Global Climate Models (GCMs) and observed data and statistical methods; introduce

PyCPT 2.5: structure, inputs, outputs, workflow, examples, and automation; configure and run PyCPT 2.5 to make the best seasonal and subseasonal forecasts of precipitation and related quantities in participants' home countries, including forecast verification; and capitalize on GCM forecast products from WMO Global Producing Centres and U.S. research centers, accessible through the IRI Data Library (NMME, C3S, S2S, and SubX databases), as well as online global precipitation datasets and offline prediction data files.

Publication / Creation date: 2023

Citation: Sinachikupo K. 2023 . Zambia Report on the Africa Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting . AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/137643>

DOI: <Not Provided>

Creator / Authors:

- Sinachikupo - Kenneth

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
AICCRA Theme 4 COLUMBIA	Dinku, Tufa <tufa@iri.columbia.edu>	Responsible

D24645 - Training on the NextGen system for sub-seasonal rainfall forecast

General Information

Description: ZMD staff trained on using the NextGen system for sub-seasonal rainfall forecast: 2022

Category: Reports and other publications

Sub Category: Working Paper

Deliverable Status: Cancelled

Year of expected completion: 2022

Justification of new expected date of completion: Is a duplicate of D24642 and should not have been in MARLO twice.

Cluster Activities: • 2.3.1 Support strengthening of national meteorological real-time services

Performance Indicators: • PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters: • Theme 4

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR IWMI - International Water Management Institute

Deliverable dissemination

Is this deliverable already disseminated?: No

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: TBA

Description / Abstract: TBA

Publication / Creation date: TBA

Citation: Due in August 2022

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
AICCRA Theme 4 COLUMBIA	Dinku, Tufa <tufa@iri.columbia.edu>	Responsible

D24518 - Paper on the participatory selection of key value chains through stakeholder engagement of best-bet CSA options for smallholder farmers in the agro-ecological zones of Zambia

General Information

Description: 3.3.1.1. Identify CSA technology packages suitable for smallholder farmers in the various agro-ecological zones of Zambia through participatory selection of key value chains.

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2021

Cluster Activities: • 1.3.2 Strengthening digital climate advisory services in Eastern and Southern Africa

Performance Indicators: • KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (2 - Principal)
- Youth (2 - Principal)

Partners contributing to this deliverable: • CGIAR IITA - International Institute of Tropical Agriculture • CGIAR WorldFish - WorldFish

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137810>

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Value chain engagement for sustainable and inclusive scaling of climate-smart agriculture and climate information services: Cases from Zambia

Description / Abstract: Paper on the participatory selection of key value chains through stakeholder engagement of best-bet CSA options for smallholder farmers in the agro-ecological zones of Zambia

Publication / Creation date: TBA

Citation: TBA

Handle: <https://hdl.handle.net/10568/137810>

DOI: <Not Provided>

Creator / Authors:

- Minh - Thai Thi
- Jacobs-Mata - Inga
- Ngwira - Amos
- Gbegbelegbe - Sika
- Homann-Kee - Sabine
- Mapedza - Everisto
- Dahl - Hauke
- Chikoye - David
- Mudege - Netsayi N

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Minh, Thai <t.minh@cgiar.org>	Responsible

D24521 - Internship Tracer Survey Report Internship Innovation Grant (I2G)

General Information

Description: Internship Tracer Survey Report Internship Innovation Grant (I2G)

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 3.3.1 Identify climate- and gender and social inclusion-smartness of CSA packages

• 2.3.3 Build capacity in three focus countries of public and private sector next users to support implementation of CSA technology packages

Performance Indicators: • PD Outcome: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

• KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (2 - Principal)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR IITA - International Institute of Tropical Agriculture • CGIAR WorldFish - WorldFish • CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137646>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Internship Tracer Survey Report Internship Innovation Grant (I2G)

Description / Abstract: This tracer survey was carried out to assess the effectiveness of the internship program, to what extent have the capacity of young Zambians that participated in the internship program have their skills, capacity and network been strengthened.

Publication / Creation date: tba

Citation: Makungwe M, Mutenje M, Pele W, Jacobs-Mata I, Thai M, Nkosi P, Muzungaire L. 2023. Internship Tracer Survey Report Internship Innovation Grant (I2G). AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/137646>

DOI: <Not Provided>

Creator / Authors:

- Makungwe - Mirriam
- Mutenje - Munyaradzi
- Pele - Winnie
- Jacobs-Mata - Inga

Deliverable Quality check

FAIR Compliant: **F A I R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Makungwe, Mirriam <m.makungwe@cgiar.org>	Responsible

D25548 - Chitetezo Cooperative Federation Capacity building report January to June 2023

General Information

Description: Chitetezo Cooperative Federation in partnership with COMACO and ICRISAT will carry out some trainings on finance literacy, gliricidia management and early watnings to prepare cooperative leaders and farmers for the 2023 farming season.

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (2 - Principal)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/131297>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: Yes

Participants and Trainees

Event/Activity name: Chitetezo Cooperative Federation Capacity building report January to June 2023

Type of Activity: Knowledge exchange

Total number of Participants/Trainees: 1316.0

Number of females: 577.0

Number of africans: 1316.0

Number of youth: 197.0

Type of Participant(s)/Trainee(s): Farmer/Producer

Describe the focus of the event: The event focused on lead farmers

Describe the likely outcomes from the event: Adoption of climate smart agriculture technologies

Deliverable Metadata

Disseminated title: Chitetezo Cooperative Federation: Capacity building report January to June 2023

Description / Abstract: The objective of this report is to highlight the capacity-building activities conducted by the Community Market for Conservation (COMACO) through the Chitetezo Cooperative Federation (CCF) in collaboration with the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT). Capacity building activities focused on the following trainings: (i) Crop market workshops with stakeholders; (ii) Cashier or literacy trainings; (iii) chiefdom or cooperative Training on Crop markets; (iv) Field day activities; and (iv) Agroforestry trainings.

Publication / Creation date: July 2023

Citation: Zulu S. 2023. Chitetezo Cooperative Federation: Capacity building report January to June 2023. AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/131297>

DOI: <Not Provided>

Creator / Authors:

- Zulu - Samuel

Deliverable Quality check

FAIR Compliant: **F A I R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics	Ngwira, Amos <A.Ngwira@cgiar.org>	Responsible

D25553 - Munda Make Over Series 1-Ep 7: Agronomic Practices, Fertiliser, Day old chicks and Pigs Agronomic Practices, Fertiliser, Day old chicks and Pigs

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Good Agronomic Practices. 2. Fertiliser: Do a soil test to find out what fertilisers to use. 3. How to keep chickens as a business. 4. How to get new born piglets to market weight – in just 3 months!

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PD Outcome: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Munda Make Over Series 1-Ep 7: Agronomic Practices, Fertiliser, Day old chicks and Pigs

Description / Abstract: Welcome to Munda Make Over. The farmers we are about to visit are multi-talented farmers. With all that talent do you think we'll be able to help? This week we're in Chibombo in central province and we're visiting Anastacia Lubilo. Anastacia is married to Mickson Simango and they have 3 children. Their farm covers 5 hectares. Main crops are Maize, Tomatoes, and Green Peppers. They also have 20 cows, 33 Pigs and over 100 chicken! Let's go and learn more: 1. Good Agronomic Practices. 2. Fertiliser: Do a soil test to find out what fertilisers to use. 3. How to keep chickens as a business. 4. How to get new born piglets to market weight – in just 3 months!

Publication / Creation date: Jan 17, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D24658 - Online tool for flood and drought indicators to guide in risk management strategies

General Information

Description: Online tool for flood and drought indicators to guide in risk management strategies by local officials (agri. Extension and community users)

Category: Data, models and tools

Sub Category: Software

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: • 1.3.2 Strengthening digital climate advisory services in Eastern and Southern Africa

Performance Indicators: • KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)
• PD Outcome: IPI 2.1: Climate advisory platforms/hubs launched/ strengthened, including their focus on gender and social inclusion (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (0 - Not Targeted)
- Youth (0 - Not Targeted)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://zadmsdemo.iwmi.org/home>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: IWMI launches high-tech drought monitoring system for Zambia

Description / Abstract: The Zambia Drought Management System (ZADMS) portal is developed as part of the International Water Management Institute's drought programme with the assistance of several partners to support the various stakeholders in the Zambia region. The tool is developed

specifically for drought risk mitigation and enables timely action to be taken by the government authorities and relevant development organizations. It has several sub-modules to understand the drought propagations, conditions to adaptation strategies, such as Weather Forecast, Drought Management Tool, News feed, Online Bulletin, etc. for better and timely drought management. Any changes or modifications to the application code may cause technical errors in the tool and would change its intended functions. The majority of the data used in this tools are based on satellite observations which are not verified using field data. Therefore, some caution is recommended when using the tool. The functions of the tools depend on the availability of data in Google Earth Engine, NOAA, NASA and other data providing platforms. Data are regularly updated in the ZADMS backend system, and this will lead to possible delays.

Publication / Creation date: 22 February 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Amarnath, Giriraj <a.giriraj@cgiar.org>	Responsible

D24530 - Launch of Zambia drought management system and technical session on drought management plans

General Information

Description: Launch of Zambia drought management system and technical session on drought management plans

Category: Outreach products

Sub Category: Blog Post

Deliverable Status: Complete

Year of expected completion: 2022

Cluster Activities: • 3.3.3 Integrate climate-smart options and tailored CSI advisory systems for specific value chains

Performance Indicators: • PD Outcome: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)
• PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)
• PD Outcome: IPI 2.1: Climate advisory platforms/hubs launched/ strengthened, including their focus on gender and social inclusion (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR WorldFish - WorldFish • CGIAR IWMI - International Water Management Institute

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://www.iwmi.cgiar.org/2023/02/iwmi-launches-high-tech-drought-monitoring-system-for-zambia/>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: Yes

Participants and Trainees

Event/Activity name: Launch of Zambia drought management system and technical session on drought management plans

Type of Activity: Formal Training: One-off training event

Total number of Participants/Trainees: 38.0

Number of females: 10.0

Number of africans: 35.0

Number of youth: 7.0

Type of Participant(s)/Trainee(s): Mixture of participant types

Describe the focus of the event: The aim of this event was to launch the Zambia drought management system (ZADMS), and have a technical session on drought management plans with stakeholders to help them understand information around the drought bulletins. ZADMS incorporates national- to district-level datasets drawn from multiple satellites and other sources. It provides seasonal, sub-seasonal and seven-day weather forecasts; monitoring tools to indicate when drought is present and, if so, the level of severity; and district-level agricultural contingency plans that can be put into action if the system indicates that specified triggers have been reached. Data are primarily presented as easy-to-interpret on-screen maps but can be output as user-friendly drought bulletins if required.

Describe the likely outcomes from the event: IWMI jointly with the Ministry of Agriculture, ClimBeR, AICCRA and related organizations officially launched the ZADMS at a workshop on 20th February at Hotel Radisson, Lusaka. Participants working in meteorology, water resources, agriculture and disaster management explored the ZADMS' capabilities in drought monitoring and early warning; assessed ways to institutionalize the ZADMS at national and sub-national levels on existing knowledge products, and promote multi-institutional collaboration to mitigate drought risks; and discussed the development of contingency plans as part of Zambia's future drought management strategy.

Deliverable Metadata

Disseminated title: Launch of Zambia drought management system and technical session on drought management plans

Description / Abstract: The Zambia Drought Monitoring System (ZADMS), developed by the International Water Management Institute (IWMI) for Zambia's Ministry of Agriculture will provide all the information needed to effectively manage drought. For example, it will enable the Ministry and partner organizations to see when a drought is emerging; identify the severity of an evolving drought; and take appropriate action early on to support citizens to avoid the worst impacts of prolonged dry spells.

Publication / Creation date: 20th February 2023

Citation: Phindiwe Nkosi, 2023. IWMI launches high-tech drought monitoring system for Zambia. International Water Management Institute, Pretoria, South Africa

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors:

- Nkosi - Phindiwe

Partners contributing to this deliverable:

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Amarnath, Giriraj <a.giriraj@cgiar.org>	Responsible

D25554 - Munda Make Over Series 1-Ep 8: Value Addition, Climate smart seed, Financial Literacy and Fertilizer

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. How value addition improves Shelf life and market value for your produce. 2. Climate smart seed help farmer adapt to climate change. 3. How the right fertilizer can help you improve your crops. 4. How to improve your farming through Financial literacy.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Value Addition, Climate smart seed, Financial Literacy and Fertilizer

Description / Abstract: Welcome to Munda Make Over. Today we are in 10 miles in Central Province and we're visiting not one but two farmers, Farmers Grace and Mapiwe, we want to find out how working in a group has helped them. They are both members of a farmers group where they get training and information on how to better their yields. Today we are going to learn more from our farmer. Let's go meet them: 1. How value addition improves Shelf life and market value for your produce. 2. Climate smart seed help farmer adapt to climate change. 3. How the right fertilizer can help you improve your crops. 4. How to improve your farming through Financial literacy.

Publication / Creation date: Jan 17, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25299 - Climate Smart Aquaculture for Smallholder Fish Farmers: Integrated Fish and Small Livestock Farming

General Information

Description: Develop a training manual both English and local languages to enhance women's access to CIS and CSA in aquaculture. The training manual should focus on Climate Smart Aquaculture for Smallholder Fish Farmers: Integrated Fish and Small Livestock Farming.

Category: Trainings and other materials

Sub Category: User Manual

Deliverable Status: Complete

Year of expected completion: 2022

Cluster Activities: ● 1.3.2 Strengthening digital climate advisory services in Eastern and Southern Africa

- 2.3.1 Support strengthening of national meteorological real-time services
- 2.3.2 Enhance the capacity of public institutions and private firms to provide climate service delivery models

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

● KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

● CSA Outcome: IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (2 - Principal)
- Youth (1 - Significant)

Partners contributing to this deliverable: ● CGIAR WorldFish - WorldFish

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/131305>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Climate Smart Aquaculture for Smallholder Fish Farmers: Integrated Fish and Small Livestock Farming

Description / Abstract: Climate change and climate shocks are putting the most vulnerable people at risk, as extreme weather events are becoming more and more intense in many regions of the world. Extreme heat, drought, floods and unpredictable farming seasons are harming farmers and their production systems, threatening their livelihoods. In marginalized and vulnerable populations, aquaculture is a key means for sustaining livelihoods because of its contribution to food security and nutrition, but many fish farmers in Zambia endure unfavorable climates for sustainable fish farming. In Zambia's Northern and Luapula provinces, for example, aquaculture and fisheries are affected by extreme weather events, such as floods, rising temperatures and unpredictable rainfall patterns (Ministry of National Development 2017). These climatic hazards adversely impact food and water security, water quality, and people's livelihoods, especially in rural communities that depend more on aquatic food systems. It is well known that the poorest people are vulnerable to extreme climate events, and Northern and Luapula are among the poorest provinces in Zambia, with 80.5% of people in the two provinces classified as poor and 64.5% as extremely poor as of 2010 (CSO 2010). Southern Zambia, in particular, is designated a climate hot spot. Over the past 30 years, it has experienced the lowest rainfall in the country, and it will continue to experience increased drought and flooding throughout the region, which will affect the aquaculture and the fisheries sector (Kalantary 2010). With the frequency and intensity of climate events expected to rise in the future, the negative impact on people's livelihoods, food security, nutrition and household income generation are likely to deteriorate if no remediation interventions are proactively implemented. Therefore, it is important to collaborate with farmers to develop and disseminate relevant climate-smart adaptation and mitigation strategies. Such strategies will help farmers increase their resilience and adaptive capacity to climate variability.

Publication / Creation date: 2023-07-07

Citation: tba

Handle: <https://hdl.handle.net/10568/131305>

DOI: <Not Provided>

Creator / Authors:

- Lundeba - Mary
- Mudege - Netsayi N.
- Siamudaala - Victor

Deliverable Quality check

FAIR Compliant: **F A I R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR WorldFish - WorldFish	Mudege, Netsayi <n.mudege@cgiar.org>	Responsible

Zambia (C102082) - Country Cluster

Submitted on 2024-02-20 at 15:00 (Reporting cycle 2023)



D25555 - Munda Make Over Series 1-Ep 9: Maize, Beef, Legumes and Record Keeping

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Crop variety can help farmers adapt to climate change. 2. How to expand markets for your produce. 3. How legume farmers are being helped in finding markets. 4. We shed light on the management of risk

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Maize, Beef, Legumes and Record Keeping

Description / Abstract: Welcome to Munda Make Over. Farming must be a very safe business I mean, everybody needs to eat? But just like any business there are risks, the weather the change in demand at market can make it just as risky as any other business. A farmer should be able to plan for it. Today we'll visit a farm where we will explore how the risks of agribusiness can be met head on. Today we are in Kalola 2-Chibombo in Central Province and we're visiting our Farmer Morten Himakamba, we want to find out how dealing with the risks of being a farmer have impacted his work. Morten grows crops and also rears some cattle for beef production Let's learn a thing or two: 1. Crop variety can help farmers adapt to climate change. 2. How to expand markets for your produce. 3. How legume farmers are being helped in finding markets. 4. We shed light on the management of risk

Publication / Creation date: Jan 24, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25556 - Munda Make Over Series 1-Ep 10:Climate Smart,Agronomy practices, Electric Pressure Cooker&Fertiliser

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Crop variety can help farmers adapt to climate change. 2. How to expand markets for your produce. 3. How legume farmers are being helped in finding markets. 4. We shed light on the management of risk

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Climate Smart,Agronomy practices, Electric Pressure Cooker&Fertiliser

Description / Abstract: Welcome to Munda Make Over. Farming must be a very safe business I mean, everybody needs to eat? But just like any business there are risks, the weather the change in demand at market can make it just as risky as any other business. A farmer should be able to plan for it. Today we'll visit a farm where we will explore how the risks of agribusiness can be met head on. Today we are in Kalola 2-Chibombo in Central Province and we're visiting our Farmer Morten Himakamba, we want to find out how dealing with the risks of being a farmer have impacted his work. Morten grows crops and also rears some cattle for beef production. Let's learn a thing or two: 1. Crop variety can help farmers adapt to climate change. 2. How to expand markets for your produce. 3. How legume farmers are being helped in finding markets. 4. We shed light on the management of risk

Publication / Creation date: Jan 30, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D24533 - AICCRA Country Scaling Vision: Zambia

General Information

Description: This paper will identify institutional reforms and policy changes that can trickle systemic changes in the enabling environment and accelerate adoption and scaling of CSA technologies.

Category: Reports and other publications

Sub Category: Brief

Deliverable Status: Complete

Year of expected completion: 2022

Cluster Activities: • 2.3.4 Develop existing or strengthen new National Frameworks for Climate Services (NFCS)

• 3.3.1 Identify climate- and gender and social inclusion-smartness of CSA packages

Performance Indicators: • PDO Outcome: PDO Indicator 1: AICCRA partners and stakeholders in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (Number)

• PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: • Regional

Country(ies): • Zambia

Region(s): • Southern Africa

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable: • CGIAR IITA - International Institute of Tropical Agriculture • CGIAR WorldFish - WorldFish • CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://cgspace.cgiar.org/handle/10568/130306>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: AICCRA Country Scaling Vision: Zambia

Description / Abstract: In this brief, we present AICCRA Zambia's scaling vision. Our scaling strategy employs a number of interconnected and mutually reinforcing channels. These include public and private sector scaling partnerships, individual and collective investments, financing mechanism for SMEs, institutional capacity building and multistakeholder dialogues (Figure 2). AICCRA works with Zambian partners to scale actionable climate smart agriculture (CSA) and climate information services (CIS) innovation bundles that contribute to smallholder farmers' water and food security and build resilience.

Publication / Creation date: May 2023

Citation: Jacobs-Mata I, Dahl H, Thai M, Mutenje M, Kakwasha K, Pele W, Makungwe M, Muzungaire L, Mudege N. 2023. AICCRA Country Scaling Vision: Zambia. AICCRA. AICCRA Info Note. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/130306>

DOI: <Not Provided>

Creator / Authors:

- Jacobs-Mata - Inga
- Dahl - Hauke
- Thai - Minh
- Mutenje - Munyaradzi
- Kakwasha - Keagan
- Pele - Winnie
- Makungwe - Mirriam
- Muzungaire - Lizzy
- Mudege - Netsayi

Deliverable Quality check

FAIR Compliant: **F A I R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25557 - Munda Make Over Series 1-Ep 11: Fingerlings, Fish feeds, Table size fish and Off takers

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Where to get our fingerlings from 2. How to provide them with nutrition 3. Table sized fish and the market 4. The benefits that off takers provide for fish farmers

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Fingerlings, Fish feeds, Table size fish and Off takers

Description / Abstract: Welcome to Munda Make Over. When do you think is the right time to become a farmer? That's a very interesting question. The right time? It's hard to say. There's a lot that should be considered but sometimes the only way to truly find out is to do it. This week we're visiting a farmer who has done just that. Today we are in Mantumbusa, Mansa in Luapula Province and we're visiting Chansa Muntuna. Chansa is rearing fish on 4 hectares. He's very new to farming just having recently graduated from an agriculture college; Through support from his parents Chansa has taken the bold step of becoming a fish farmer. Will it pay off? Let's find out! 1. Where to get our fingerlings from 2. How to provide them with nutrition 3. Table sized fish and the market 4. The benefits that off takers provide for fish farmers

Publication / Creation date: Feb 28, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Mutenje, Munyaradzi <m.mutenje@cgiar.org>	Responsible

D25558 - Munda Make Over Series 1-Ep 12: Fish farming, Integration, Finance & Electric Pressure Cooker

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Climate change and its effects on fish farming 2. How integration is crucial to a farmer's survival. 3. Accessing capital to grow your farming business 4. The wide variety of smart cooking devices available on the market.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: ish farming, Integration, Finance & Electric Pressure Cooker

Description / Abstract: Welcome to Munda Make Over. Is money the answer to every problem? Many times, we go straight to thinking that more money will sort it out. It's easy to see why we might think that way but say money sometimes the answer to our problems is right in front of us. This week we visit a farmer to see if money is the answer to all or the answer is within reach? We are in Mwamba Mulilo, Kasamaa and we're visiting Bwalya Chisanga. Let's go and learn: 1. Climate change and its effects on fish farming 2. How integration is crucial to a farmer's survival. 3. Accessing capital to grow your farming business 4. The wide variety of smart cooking devices available on the market.

Publication / Creation date: Feb 28, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25431 - Roundtable Convening on Women and Youth SMEs in Agribusiness

General Information

Description: The International Institute of Tropical Agriculture will collaborate with The Rallying Cry to understand the challenges faced by women- and youth-led agribusinesses in Zambia. The themes of interest will be: (a) Environmental constraints; (b) Network; (c) Climate change response; (d) Capacity Building; and (e) Social and cultural norms.

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PD Outcome: IPI 2.3: People engaged in AICCRA-funded capacity development activities (number; CGIAR CRI, disaggregated by gender, type of person (e.g. researcher advisory service provider), and type of capacity development activity (e.g. research position, post-docs, graduates program, workshop targeted at women)

● PD Outcome: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

● CSA Outcome: IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (2 - Principal)
- Youth (2 - Principal)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/130777>

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: Yes

Participants and Trainees

Event/Activity name: Roundtable Convening on Women and Youth SMEs in Agribusiness

Type of Activity: Knowledge exchange

Total number of Participants/Trainees: 40.0

Number of females: 25.0

Number of africans: 40.0

Number of youth: 25.0

Type of Participant(s)/Trainee(s): Mixture of participant types

Describe the focus of the event: This event focused on understanding the challenges faced by women- and youth-led agribusinesses in Zambia. The themes of interest were: (a) Environmental constraints; (b) Network; (c) Climate change response; (d) Capacity Building; and (e) Social and cultural norms.

Describe the likely outcomes from the event: Key highlights from the event confirmed the challenges and potential solutions previously identified by women and youth. Stakeholders from local capital providers, entrepreneur support organizations, and relevant government ministries provided input into and expanded possible solutions and roles for applicable ecosystem players. Lastly, the events of the day showed that many of the identified solutions are interdependent and that tangible change will require multi-sector interventions.

Deliverable Metadata

Disseminated title: Roundtable Convening on Women and Youth SMEs in Agribusiness

Description / Abstract: The International Institute of Tropical Agriculture collaborated with The Rallying Cry to understand the challenges faced by women- and youth-led agribusinesses in Zambia. As such, two workshops were previously held in September and December 2022 with the target group to obtain an understanding of their challenges and identify possible solutions. These challenges were categorised into themes: (a) Environmental constraints; (b) Network; (c) Climate change response; (d) Capacity Building; and (e) Social and cultural norms. The women and youth in attendance generated solutions and shared wish list items in both workshops. This output framed and provided the basis for the Roundtable convening held on 2 March 2023. A range of stakeholders from across the private and public sector ecosystem were invited to participate in a full day engagement of co-designing solutions for identified challenges, identifying relevant roles for stakeholder action and developing a blueprint for possible next steps. Key highlights from the event confirmed the challenges and potential solutions previously identified by the women and youth. Stakeholders from local capital providers, entrepreneur support organisations and relevant government ministries provided input into and expanded possible solutions and roles for applicable ecosystem players. Lastly, the events of the day showed that many of the identified solutions are interdependent, and that tangible change will require multi-sector interventions. To implement the actions and recommendations from the Roundtable, a 'task force' could be assembled to develop a detailed yearlong workplan to support selected and agreed solutions. Updates can then be shared at subsequent Roundtables; this could become an annual event that draws diverse stakeholders to a single forum. We also see the longer term need to develop an ecosystem initiative for relevant stakeholders that connects siloed activities and objectives and includes the development of a more intentional and supported network for women and youth agripreneurs.

Publication / Creation date: March 2023

Citation: The Rallying Cry. 2023. Roundtable Convening on Women and Youth SMEs in Agribusiness. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/130777>

DOI: <Not Provided>

Creator / Authors:

- The Rallying Cry

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IITA - International Institute of Tropical Agriculture	Gbegbelegbe, Sika <S.Gbegbelegbe@cgiar.org>	Responsible

D24535 - The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture CSA – CIS into the Curricula of Zambian Higher Education Institutions

General Information

Description: The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture CSA – CIS into the Curricula of Zambian Higher Education Institutions.

Category: Reports and other publications

Sub Category: Report

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.3 Integrate climate-smart options and tailored CSI advisory systems for specific value chains

● 2.3.2 Enhance the capacity of public institutions and private firms to provide climate service delivery models

Performance Indicators: ● KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

● PD Outcome: IPI 2.2: Partnerships launched/ strengthened between AICCRA-funded CGIAR and NARS scientists, universities, public sector stakeholders, farmer organizations, NGOs and private sector (number) (CGIAR CRI)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (N/A - Not applicable)
- Youth (N/A - Not applicable)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: CGSpace

Dissemination URL:

<https://hdl.handle.net/10568/137645>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture (CSA) – Climate Information Services (CIS) into the Curricula of Zambian Higher Education Institutions

Description / Abstract: This report presents results from a survey conducted to understand the extent to which HEIs in Zambia have integrated CSA-CIS in the curricula and identify the needs & possible approaches for integrating the CSA and CIS in the HEI programmes. Climate-Smart Agriculture (CSA) is an approach for transforming and reorienting agricultural systems to support food security under the new realities of climate change. Climate Information Services (CIS) involve collating, analysing, packaging up and distributing climate data on variables such as temperature, rainfall, wind, soil moisture and extreme weather conditions and extreme weather indicators.

Publication / Creation date: TBA

Citation: Chinene VRN, Phiri E, Mweetwa AM, Yengwe J, Sinda MC, Lungu ON, Kaluba P. 2023. The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture (CSA) – Climate Information Services (CIS) into the Curricula of Zambian Higher Education Institutions. AICCRA Report. Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA).

Handle: <https://hdl.handle.net/10568/137645>

DOI: <Not Provided>

Creator / Authors:

- Chinene - VRN
- Phiri - E
- Mweetwa - AM
- Yengwe - J
- Sinda - MC
- Lungu - ON
- Kaluba - P

Deliverable Quality check

FAIR Compliant: **F A I R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Makungwe, Mirriam <m.makungwe@cgiar.org>	Responsible

D25559 - Munda Make Over Series 1-Ep 13: Climate smart crop, Aggregation, Nutrition, Biosecurity & Green fuel

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. How technology and a green fuel stack are making cooking cheaper and save you more time. 2. How climate resilient seed will enable you the farmer to have a bumper harvest that is also a healthy one. 3. Aggregation and how it gives you more power to negotiate. 4. Biosecurity, the key to your flock's health and performance

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Climate smart crop, Aggregation, Nutrition, Biosecurity & Green fuel

Description / Abstract: Welcome to Munda Make Over. What do you understand by expensive? When do we count something as expensive? When we buy or when we use it? Is there a difference? That's what we are going to find out this week, how do you as a farmer count your cost? Today we are on the Copperbelt in Kanana, Luanshya and we're visiting Edith Chiwe. Let's get going and learn more.... 1. How technology and a green fuel stack are making cooking cheaper and save you more time. 2. How climate resilient seed will enable you the farmer to have a bumper harvest that is also a healthy one. 3. Aggregation and how it gives you more power to negotiate. 4. Biosecurity, the key to your flock's health and performance

Publication / Creation date: Feb 28, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Nohayi, Ngowenani <n.nohayi@cgiar.org>	Responsible

D24536 - Nature-based Solutions (NbS) review report: Assessing the Potential of NbS for Climate Adaptation and Investment Opportunities for Financing NbS in Zambia

General Information

Description: The aim of the report is to provide advice to refine a National Climate-Smart Agriculture Investment Plan (CSAIP) to support CSA, climate information services (CIS), and agricultural extension, including identifying investment opportunities for financing nature-based solutions in Zambia.

Category: Reports and other publications

Sub Category: Working Paper

Deliverable Status: Cancelled

Year of expected completion: 2022

Justification of new expected date of completion: The scientist hasn't been able to complete it.

Cluster Activities: • 3.3.4 Develop and promote climate-smart agricultural investment plans in East Africa

Performance Indicators: • KS Outcome: IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced including a proportion targeting gender and social inclusion dimension (number)

Geographic scope: • National

Country(ies): • Zambia

Region(s):

Shared Clusters: • Theme 2

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (N/A - Not applicable)
- Youth (N/A - Not applicable)

Partners contributing to this deliverable: • CGIAR WorldFish - WorldFish

Deliverable dissemination

Is this deliverable already disseminated?: No

Open Access: No

Open Access Restriction: <Not Defined>

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: TBA

Description / Abstract: To be completed end of July 2023

Publication / Creation date: TBA

Citation: TBA

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: **F** **A** **I** **R**

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Nohayi, Ngowenani <n.nohayi@cgiar.org>	Responsible

D25560 - Munda Make Over Series 1-Ep 14: Organic Crop, Poultry feed, Farmer training and Winter brooding

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. How a farmer can get a bumper harvest through the use of a plant booster that is environmentally and pocket friendly. 2. How feeding your flock nutritious feed will increase your sales. 3. How training will make you a better farmer. 4. How you can manage your poultry farming in different seasons.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Organic Crop, Poultry feed, Farmer training and Winter brooding

Description / Abstract: Welcome to Munda Make Over. Do you sometimes find it hard to keep up? Everything. It's like the minute you master one thing there's a new way of doing it. How do we keep up? This week we'll be visiting a farmer that's going to help us answer this question. We are in Baluba, Ndola on the Copper belt and we're visiting Bright Ziva. Let's go and learn! 1. How a farmer can get a bumper harvest through the use of a plant booster that is environmentally and pocket friendly. 2. How feeding your flock nutritious feed will increase your sales. 3. How training will make you a better farmer. 4. How you can manage your poultry farming in different seasons.

Publication / Creation date: Feb 28, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <jacobs-mata@cgiar.org>	Responsible

D25561 - Munda Make Over Series 1-Ep 15: LPG, Harvest and post-harvest, Nutrition and Technology

General Information

Description: 1. The myths around LPG cookers and how they can make your life easier. 2. How good harvesting practices ensure you get the most out of the yields. 3. Lessons learnt from the previous harvest and how we can learn from them. 4. How farmers can secure the nutrition of their families through very practical steps.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: LPG, Harvest and post-harvest, Nutrition and Technology

Description / Abstract: Welcome to Munda Make Over. How many times have you found yourself believing something that wasn't true? What made you think it was real? when you get it from "reliable sources" we don't question it. This week we're meeting a farmer who will help us dig for the for the truth and we promise it will be reliable. Today we are in Bwalya Yohahne, Kasama and we're visiting Maureen Lalwa. Maureen is a single mother of 7 children. Let's go meet them and learn: 1. The myths around LPG cookers and how they can make your life easier. 2. How good harvesting practices ensure you get the most out of the yields. 3. Lessons learnt from the previous harvest and how we can learn from them. 4. How farmers can secure the nutrition of their families through very practical steps.

Publication / Creation date: Mar 7, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25562 - Munda Make Over Series 1-Ep 16: Beef, Insurance, Fertilisers and Markets

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. How to make sure you get best nutrition for beef cattle. 2. Importance of Insurance. 3. Horticulture - Crop nutrition and maize yield. 4. Market access and market information.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Beef, Insurance, Fertilisers and Markets

Description / Abstract: Welcome to Munda Make Over. So, have you got a challenge on your farm? Something you're not sure about? Or something that you wish could be better? Well, we have experts. Who know how to fix things that are wrong and make suggestions for doing things right? So, stay watching as we do just that. Let's go and learn: 1. How to make sure you get best nutrition for beef cattle. 2. Importance of Insurance. 3. Horticulture - Crop nutrition and maize yield. 4. Market access and market information.

Publication / Creation date: Mar 13, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25563 - Munda Make Over Series 1-Ep 17: Hybrid Chicken, IPM, Fertilisers and Markets

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Hybrid village chicken: Keeping chicken in summer time 2. What is IPM and why is it a good idea 3. Fertilisers: Increasing yields 4. Markets before planting

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Hybrid Chicken, IPM, Fertilisers and Markets

Description / Abstract: Welcome to Munda Make Over. Ever wondered what's the secret to farming? Hard work, good planning, quality inputs, markets. There is no one secret, there's many. Which is why this week we're looking at four very different skills and seeing how all together they add up to one thing. The secret of farming! This week we're in Shipanguala in Central province and we're visiting Michael Mainga he is married to Catherine and they have 7 children. Let's go find out about! 1. Hybrid village chicken: Keeping chicken in summer time 2. What is IPM and why is it a good idea 3. Fertilisers: Increasing yields 4. Markets before planting

Publication / Creation date: Mar 20, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25564 - Munda Make Over Series 1-Ep 18: Beef, Climate smart crop and Markets

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: -The benefits of understanding what is needed in getting your cattle to be the best for market. -How using climate resilient seed and the best agronomy practices will secure a bumper harvest for farmers. -Understanding the beef market and how to the best price your cattle. -How technology can gain you access to bigger markets that are closer than you think.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Beef, Climate smart crop and Markets

Description / Abstract: Welcome to Munda Make Over. Have you ever wondered what it takes to get that wonderful T-BONE steak onto your plate? The difference between a soft tender steak over some hard and rubbery one? This week we're visiting a farm that's going to show us the entire value chain. This week we're in Kalola 2-Chibombo in Central province and we're visiting Nickson Musako. Let's go and Learn: 1. The benefits of understanding what is needed in getting your cattle to be the best for market. 2. How using climate resilient seed and the best agronomy practices will secure a bumper harvest for farmers. 3. Understanding the beef market and how to the best price your cattle. 4. How technology can gain you access to bigger markets that are closer than you think.

Publication / Creation date: Mar 27, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25565 - Munda Make Over Series 1-Ep 19: Fertiliser, Solar Pumps, Markets and Electric Pressure Cooker

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. How fertiliser can increase yield. 2. Benefits of a solar pump. 3. How to get a better price for your harvest. 4. How to cook quickly, safely, cheaply!

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)
● CSA Outcome: IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Fertiliser, Solar Pumps, Markets and Electric Pressure Cooker

Description / Abstract: Welcome to Munda Make Over. Have you ever thought about what it takes to make a profit? Spend small, receive big? Well in farming to get a profit its complicated. Sometimes you have to spend big, but then the profit is bigger too. This week we're going to see how to do both. All with the aim of making bigger profits! who doesn't like to make a profit, so let's get spending! This week we're in Chongwe visiting a farm not far from these amazing hot springs and we're visiting Gabriel and his wife Felistus, a teacher and they have 6 children. We are learning about: 1. How fertiliser can increase yield. 2. Benefits of a solar pump. 3. How to get a better price for your harvest. 4. How to cook quickly, safely, cheaply!

Publication / Creation date: Apr 3, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25566 - Munda Make Over Series 1-Ep 20: Charcoal, Solar Pump, Financial Literacy and Markets

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. How a solar pump can be a cost-effective solution to getting water onto the fields. 2. How savings and loans can help with the purchase. 3. How the Solar pump works, Installation and testing. 4. How to get information on market prices.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Charcoal, Solar Pump, Financial Literacy and Markets

Description / Abstract: Welcome to Munda Make Over. This week we're going down to the river. Because for farmers, well for all of us really, water is life. So, we want to find out how we can all play a part in protecting our rivers and streams, so it can bring life to the soil, and help grow the crops that feed us all. This week we're in Kanakapata, Chongwe, Central province and we're visiting farmers Lysias and Eneles who live close by. They have 5 children and their farm covers 2 hectares. Their main crops are tomatoes, Maize, Rape fruit, Egg Pant and Okra. They also have 15 chicken. But if they want to irrigate to get a second crop, water has to be carried from the river. It's a lot of work! So, let's see how we can: 1. How a solar pump can be a cost-effective solution to getting water onto the fields. 2. How savings and loans can help with the purchase. 3. How the Solar pump works, Installation and testing. 4. How to get information on market prices.

Publication / Creation date: Jun 29, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

D25567 - Munda Make Over Series 1-Ep 6: Conservation Agriculture, Working in a COOP, Market and Mechanisation

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Conservation Agriculture. 2. Working with Cooperatives. 3. Marketing Crops. 4. Mechanization and Planting.

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)

● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Conservation Agriculture, Working in a COOP, Market and Mechanisation

Description / Abstract: Welcome to Munda Make Over. You know the saying 'out with the old and in with the new'? Out with the old ways of farming and in with the new ways. This week we're visiting a farm that's packed with new ideas. This week we're in Mwase in Eastern province and we're visiting Chirwa Chrisave, he is married to Margaret. And they have 8 children. Their farm covers 30 hectares with 18 currently under cultivation. They farm Maize, Vegetables, Sunflower and Groundnut and they have 19 cows, and chickens too! So, let's go and meet him and learn: 1. Conservation Agriculture. 2. Working with Cooperatives. 3. Marketing Crops. 4. Mechanisation and Planting.

Publication / Creation date: Jan 17, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Nohayi, Ngowenani <n.nohayi@cgiar.org>	Responsible

D25568 - Munda Make Over Series 1-Ep 1:Farmer's Group, Conservation Agriculture,Compost manure & Agroforestry

General Information

Description: AICCRA Zambia will carry out a farming reality TV show known as the Munda Makeover, which will premiere on the Zambia National Broadcast Corporation (ZNBC). The video will aim at disseminating climate smart agriculture innovations covering the following areas: 1. Farmers group and it's benefits 2. Conservation Agriculture 3. How to make a Compost manure 4. Agro-Forestry: Gliricidia tree to farming and it is benefits

Category: Outreach products

Sub Category: Video

Deliverable Status: Complete

Year of expected completion: 2023

Cluster Activities: ● 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Performance Indicators: ● CSA Outcome: IPI 3.1: Validated climate information services and climate-smart agriculture technology packages disseminated/ made accessible (number)
● PDO Outcome: PDO Indicator 2: AICCRA beneficiaries in the project area are increasingly accessing enhanced climate information services and/or validated climate-smart agriculture technologies. (number) (disaggregated by gender %)
● CSA Outcome: IPI 3.2: Climate information services and climate-smart agriculture technologies reaching women through customized programs targeting their interests (Number)

Geographic scope: ● National

Country(ies): ● Zambia

Region(s):

Shared Clusters:

Funding source(s):

- (FS5002) WB funds - WP-AICRRA Zambia

Deliverable cross-cutting dimension(s):

- Gender (1 - Significant)
- Youth (1 - Significant)

Partners contributing to this deliverable:

Deliverable dissemination

Is this deliverable already disseminated?: Yes

Dissemination Channel: Other

Dissemination URL:

<https://youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Open Access: Yes

Does this deliverable involve Participants/Trainees?: No

Deliverable Metadata

Disseminated title: Farmer's Group, Conservation Agriculture, Compost manure & Agroforestry

Description / Abstract: Welcome to Munda Make Over. This week we're in Kabwanyanga in Eastern province and we're visiting Florence Chirwa. Sadly Florence has lost her husband, but despite this she's managed to become a successful farmer. And part of the reason has been down to joining a farmers group. This week we wanted to turn the tables, and find out from her why the group has been so helpful. And maybe we can still bring Florence a few solutions of our own Kachanana. We learn about: 1. Farmers group and it's benefits 2. Conservation Agriculture 3. How to make a Compost manure 4. Agro-Forestry: Gliricidia tree to farming and it is benefits

Publication / Creation date: Jan 4, 2023

Citation: <Not Provided>

Handle: <Not Provided>

DOI: <Not Provided>

Creator / Authors: <Not Provided>

Deliverable Quality check

FAIR Compliant: F A I R

Partners contributing to this deliverable:

Institution	Partner	Type
CGIAR IWMI - International Water Management Institute	Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>	Responsible

6. Innovations

Innovation #1559

Name of innovation: Innovation and Internship Grant (I2G)

Description of the innovation: I2G is a multi-partner capacity strengthening mechanism focusing on the CSA/CIS and agribusiness skills pipeline. It supports young entrepreneurs and young professionals through private sector working experience and demand-driven innovation development. The overall objective of I2G program is to build greater trust, knowledge sharing, and collaboration between the private sector, public sector, and research institutions that, in turn, contribute to an enabling environment to scale CSA-CIS bundles in an economically and environmentally sustainable way.

Stage of innovation: Stage 2: successful piloting (PIL - end of piloting phase)

Innovation type: Social Science

Geographic Scope:

- Multi-national

Country(ies):

Description of Stage reached: The I2G program has been implemented through five modalities in Zambia to date: the internship, CSA-CIS hackathon for innovation development and business incubation, CSA-CIS demand-driven research, and CSA-CIS integration into educational curriculums.

Name of lead organization/entity to take innovation to this stage: CGIAR IWMI - International Water Management Institute

Top five contributing organizations/entities to this stage:

- CGIAR WorldFish - WorldFish
- BongoHive
- University of Zambia
- ACDI-VOCA

Evidence link: 1) <https://youtu.be/iBKc7YJ3tDA> 2)

<https://aicra.cgiar.org/events/aicra-zambia-launch-agdatahub-and-i2g-host-investor-roundtable>

Deliverables associated:

• **(D24511) Report** - Lessons learned report: Incubator/accelerator grant mechanism and internship program (Completed 2023)

- **(D24505) Concept note** - Internship/learning grant program concept note (Completed 2022)

Contributing CRPs/Platforms: <Not Defined>

Innovation #1560

Name of innovation: Zambia Drought Management System (ZADMS)

Description of the innovation: IWMI and WARMA co-developed the ZADMS through CGIAR ClimBeR and AICCRA initiatives with the support of the Ministry of Agriculture. MoA and ZMD were happy with the current progress of the ZADMS platform and discussed ways to incorporate further new features, including the drought contingency plans and the dissemination of online bulletin across relevant institutions to promote better governance and decision-making process. The beta version is accessible here: <https://13.126.101.46/home>.

Stage of innovation: Stage 2: successful piloting (PIL - end of piloting phase)

Innovation type: Biophysical Research

Geographic Scope:

- National

Country(ies):

Description of Stage reached: As a next step, we will plan to organize capacity building activities to promote the platform's usability and adoption among key stakeholders. We plan to invite the Indian Council of Agricultural Research (ICAR) to develop drought action plans for pilot districts to help MoA scale across Zambia.

Name of lead organization/entity to take innovation to this stage: CGIAR IWMI - International Water Management Institute

Top five contributing organizations/entities to this stage:

- Ministry of Agriculture (Zambia)
- WARMA - Water Resources Management Authority

Evidence link: <https://13.126.101.46/home>

Deliverables associated:

- **(D24460) Map** - Development of flood and drought monitoring indicators (Completed 2021)
- **(D24535) Report** - The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture CSA – CIS into the Curricula of Zambian Higher Education Institutions (Completed 2023)

Contributing CRPs/Platforms: <Not Defined>

Innovation #1561

Name of innovation: Integrated AgDataHub

Description of the innovation: AgDataHub brings together the data eco-system necessary to support blending of climate science and agriculture through technology and partnerships. It develops and disseminates CIS and agro-advisories to farmers by consolidating information from multiple players, processes into a usable format to be shared with target end users. It will be hosted by Smart Zambia Institute (Zambia), KALRO (Kenya) and ANACIM (Senegal) in the three AICCRA countries.

Stage of innovation: Stage 1: discovery/proof of concept (PC - end of research phase)

Innovation type: Biophysical Research

Geographic Scope:

- Multi-national

Country(ies):

Description of Stage reached: A functioning AgDataHub has been developed and deployed in Kenya, Zambia and Senegal. Mobile apps have also been deployed to support DMMU (Zambia) and GTP (Senegal). The indices from Africa data cube and IWMI teams can also be seen on this prototype. <https://www.ilri.org/news/forging-partnerships-improve-climate-agro-advisory-services-kenya%E2%80%99s-farmers>

<https://aiccra.cgiar.org/news/how-climate-data-transforming-agriculture-decisions-africa>

Name of lead organization/entity to take innovation to this stage: CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics

Top five contributing organizations/entities to this stage:

- ZMD - Zambia Meteorological Department
- CGIAR IWMI - International Water Management Institute
- SZI - SMART Zambia Institute
- CGIAR ILRI - International Livestock Research Institute
- AICCRA Theme 4 COLUMBIA

Evidence link: <http://3.16.201.127/zambia/>

Deliverables associated:

- **(D24460) Map** - Development of flood and drought monitoring indicators (Completed 2021)
- **(D24491) Working Paper** - Updated installation of the NexGen System and related training (Completed 2021)
- **(D24158) Blog Post** - Integrated ag-data hub in Zambia using existing CIS platforms coupled with the iSAT and DEA data cube etc. (Completed 2022)

Contributing CRPs/Platforms: <Not Defined>

Innovation #1563

Name of innovation: AICCRA-Zambia Accelerator

Description of the innovation: This is a highly successful science-based Accelerator with an end-to-end methodology to provide agribusiness support in the form of scaling grants, technical assistance, impact measurement, investment readiness and networking support.

Stage of innovation: Stage 2: successful piloting (PIL - end of piloting phase)

Innovation type: Production systems and Management practices

Geographic Scope:

- National

Country(ies):

Description of Stage reached: In a participatory and competitive process, four climate-smart innovation bundles were designed that are now being scaled in partnership with 14 high-performing Zambian agribusinesses with the aim to increase the livelihoods of 300,000 Zambian farmers by the end of 2023 (75,000 farmers per bundle).

Name of lead organization/entity to take innovation to this stage: CGIAR IWMI - International Water Management Institute

Top five contributing organizations/entities to this stage:

- IKYA - IITA Youth Agripreneurs
- CGIAR IITA - International Institute of Tropical Agriculture
- CGIAR WorldFish - WorldFish
- Open Capital
- AICCRA Theme 2 ALLIANCE

Evidence link: 1). <https://vc4a.com/cgi/ar/aiccra-zambia/> 2)

<https://www.inclusivebusiness.net/fr/node/5758> 3).

<https://smartwatermagazine.com/news/international-water-management-institute-iwmi/how-irrigation-scaling-partnerships-are-boosting> 4). https://youtu.be/4_wEbWnR3c 5)

<https://youtu.be/eRCQDFj1mGg> 6). <https://youtu.be/yvEEkFRJaWg>

Deliverables associated:

- **(D24506) Concept note** - AICCRA Zambia Accelerator Grant Concept Note (Completed 2021)
- **(D24474) Working Paper** - Integrated, economically viable CSA technology packages co-designed, piloted and up-scaled for high potential areas reaching out to at least 50,000 farmers (Completed 2023)
 - **(D24508) Video** - Incubator/accelerator grant and internship program multimedia campaigns (Completed 2022)
 - null
 - **(D24511) Report** - Lessons learned report: Incubator/accelerator grant mechanism and internship program (Completed 2023)

Contributing CRPs/Platforms: <Not Defined>

Innovation #1564

Name of innovation: Munda Makeover

Description of the innovation: Munda Makeover is a farm improvement reality show (Zambian version of Shamba Shape Up) that has been broadcasted in Zambia for the first time, and made possible through AICCRA funding. The show promotes best farming practices for crop, tree, and livestock production and marketing; market information services and farmer cooperation; and enhances the consumption of nutritious foods and clean cooking practices that will help farmers adapt to climate change increase farm productivity and profits.

Stage of innovation: Stage 3: available/ ready for uptake (AV)

Innovation type: Research and Communication Methodologies and Tools

Geographic Scope:

- National

Country(ies):

Description of Stage reached: The show was launched in Zambia in November 2022 and is broadcast nationally on ZNBC. The AICCRA Zambia Accelerator partners were profiled on 15 episodes as essential actors in a thriving agricultural ecosystem. First 10 episodes downloadable here:

<https://www.youtube.com/playlist?list=PLuldN-hq8sqkNoOY0nYgTvMKHy-G6VVZd>

Name of lead organization/entity to take innovation to this stage: MEDIAE - Media for education and development

Top five contributing organizations/entities to this stage:

- Eunimos Investment Limited
- Alliance of Bioversity International & the International Center for Tropical Agriculture (CIAT)
- COMACO - Community Markets for Conservation
- CGIAR IWMI - International Water Management Institute
- MEDIAE - Media for education and development
- Lima Links

Evidence link: 1)

<https://www.cgiar.org/news-events/news/zambias-first-farming-reality-tv-show-launched-by-national-broadcaster/> 2) <https://www.youtube.com/watch?v=Xnju2g6kTwA>

Deliverables associated: <Not Defined>

Contributing CRPs/Platforms: <Not Defined>

Innovation #1565

Name of innovation: AICCRA-Zambia Multistakeholder Dialogues (MSD)

Description of the innovation: The AICCRA-Zambia MSD is a multi-stakeholder learning and engagement platform for diverse value chain actors to share experiences and knowledge on CSA/CIS and to jointly explore ways to overcome barriers to scaling.

Stage of innovation: Stage 2: successful piloting (PIL - end of piloting phase)

Innovation type: Social Science

Geographic Scope:

- Multi-national

Country(ies):

Description of Stage reached: The MSD approach has been implemented by IWMI in Ghana, Ethiopia, and now Zambia under AICCRA. The structure is that of a community of practice/s meeting at regular monthly intervals. Dialogues take different forms from sector and/or location-specific to broad and diverse in focus and audience.

Name of lead organization/entity to take innovation to this stage: CGIAR IWMI - International Water Management Institute

Top five contributing organizations/entities to this stage:

- CGIAR WorldFish - WorldFish
- CGIAR IITA - International Institute of Tropical Agriculture
- BongoHive
- Ministry of Agriculture (Zambia)
- CGIAR ICRISAT - International Crops Research Institute for the Semi-Arid Tropics

Evidence link: <https://youtu.be/dv0Zixi0qak>

Deliverables associated:

- **(D24500) Outcome note** - AICCRA CSA-Bundle two Lesson Learned Workshop Report (Completed 2023)
- **(D25283) Capacity Development Event** - CSA-CIS MSD workshop report focusing on aquaculture (Completed 2022)
- **(D24955) Blog Post** - Catalyzing Farmer-Led Irrigation Development in a Changing Climate: Four Key Research Areas for Achieving Scale and Impact (Cancelled)
- **(D24477) Report** - AICCRA-Zambia multi-stakeholder dialogue (MSD) space: Together scaling climate smart agriculture and climate information services in Zambia (Completed 2022)
- **(D24499) Concept note** - Concept note for the establishment of a CoP/MSD for CIS delivery and CoP/MSD for CSA scaling in Zambia (Completed 2022)

Contributing CRPs/Platforms: <Not Defined>

Innovation #1571

Name of innovation: Aquaculture Decision Support Tool

Description of the innovation: The aquaculture decision support tool presents a temperature-based early warning alert system for fish farmers in Zambia. The decision support tool indicates the conditions under which air temperatures may result in a normal, high-risk, or emergency scenario, combined with the monitoring and management mitigations recommended under each scenario. The data was modelled for a pond designed according to best aquaculture practices, and therefore, pond size and pond depth are constants.

Stage of innovation: Stage 2: successful piloting (PIL - end of piloting phase)

Innovation type: Production systems and Management practices

Geographic Scope:

- National

Country(ies):

- Zambia

Description of Stage reached: The tool has been developed with a few farmers in Mansa district of Northern Zambia for a period of six months.

Name of lead organization/entity to take innovation to this stage: CGIAR WorldFish - WorldFish

Top five contributing organizations/entities to this stage:

- CGIAR IWMI - International Water Management Institute

Evidence link: <https://hdl.handle.net/10568/137809>

Deliverables associated: <Not Defined>

Contributing CRPs/Platforms: <Not Defined>

8. Activities

A24199 - 1.3.1 Development of ag-data hubs and decision support systems

Description: IWMI and CG partners will develop an integrated platform comprising of ICRISAT's iSAT, IWMI's Drought Early Warning System and Digital Earth Africa applications, along with IRI's ENACTS and data library, that will be hosted by ZMD and/or other local partners (e.g. WARMA, MoA, MoL, MoFL). Automated messaging systems will be rolled-out, but given existing systems under development in Zambia (e.g. sms under SCLARA), which advisory system is selected will need to be workshopped with local partners. Key actions: - Baseline assessment, analyses, reports and publications on the needs for climate services, based on direct and indirect user priorities and decision contexts - Monitoring and early warning for detection of drought and support in drought declaration processes - Cloud-based earth observation monitoring using open-access satellite data for floods and droughts - 1 ag data hub for Zambia developed, integrated with other relevant platforms and linked to CCAFS web-based services.

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga
<i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: Completed.

Deliverables in this activity: ● D24158: Integrated ag-data hub in Zambia using existing CIS platforms coupled with the iSAT and DEA data cube etc. (Completed 2022)

- D24441: AICCRA Zambia Baseline Survey 2022 (Completed 2022)
- D24460: Development of flood and drought monitoring indicators (Completed 2021)
- D24453: Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia (Completed 2023)
- D24495: AICCRA Zambia webpage updated (Completed 2022)
- D24641: Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia (Completed 2023)
- D24650: Zambia Drought Management System (Completed 2022)
- D25102: Tilapia Decision Support Tool (Completed 2023)

A24202 - 1.3.2 Strengthening digital climate advisory services in Eastern and Southern Africa

Description: This sub-component will seek to identify tailored CIS and digital agro-advisory packages. AICCRA will develop or strengthen, refine and customize CIS and digital agro-advisories to support national agricultural digital extension systems. Through collaborative partnerships, AICCRA will develop or improve user-friendly crop loss assessment and crop yield forecasting systems, web interfaces, apps and other contextualized DSTs that allow enhanced accessibility and inclusive information flow. Key actions: - Refine climate agro-services using AI, crowdsourcing and IoT - Test best promising approaches for communicating climate services - most effective communication that reach farmers at scale established with feedback to the ag hub. 3 different communication channels reaching out to at least 1000 farmers tested

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga
<i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: Completed

Deliverables in this activity:

- D24464: AICCRA leveraging on networks to communicate climate information and climate smart agriculture to smallholder farmers in Zambia (Completed 2022)
- D24453: Climate Information Systems (CIS) for Aquaculture: Development of a Temperature-Based Early Warning Alert System for Fish Farmers in Zambia (Completed 2023)
- D24504: 1 catalogue of climate services training materials, co-developed and updated with users, supporting the awareness and upscaling of CSA and CIS
- D24644: Zambia Report on the Africa Wide Training on the Improved NextGen Approach (PyCPT2.5) for Seasonal and Subseasonal Forecasting (Completed 2023)
- D24652: Review of existing platforms, gaps and challenges in CIS delivery in Zambia (Completed 2022)
- D24658: Online tool for flood and drought indicators to guide in risk management strategies (Completed 2023)
- D24806: Training of trainers on Climate Risk Management in Ag Extension (Completed 2022)
- D25299: Climate Smart Aquaculture for Smallholder Fish Farmers: Integrated Fish and Small Livestock Farming (Completed 2023)
- D24641: Climate Risk Management in Agricultural Extension Curriculum Validation and Training of Trainers Workshop in Zambia (Completed 2023)
- D24518: Paper on the participatory selection of key value chains through stakeholder engagement of best-bet CSA options for smallholder farmers in the agro-ecological zones of Zambia (Completed 2023)

A24205 - 2.3.1 Support strengthening of national meteorological real-time services

Description: AICCRA will strengthen NMS real-time weather monitoring and forecasting, NextGen climate prediction, and data archiving in Zambia, and strengthen NMS capacities and tools for high-resolution historical data analyses, downscaling seasonal forecasts and communication of early warnings, and improve reliability of sub-seasonal and seasonal climate predictions. The project will ensure sustainability of data generation and applicability of solutions/tools developed using high resolution climate-ag information, and scaling CSA in key value chains, by establishing a multi-stakeholder dialogue space for engagement/on-going learning to showcase latest developments of tools/services and bring users together in trouble shooting latest advances in CIS and CSA scaling. It will further focus on the dissemination of tailored information for improved CSA technologies in the form of an automated messaging system, reaching at least 10,000 farmers. Key actions: - Enhance location specific climate data - Online portal - Climate forecast systems - Automated messaging system - Multi-stakeholder dialogue space

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga
<i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: Completed

Deliverables in this activity: ● D24484: Installation of the latest version of IRI's Climate Data Tool (CDT) at ZMD and related training (Completed 2021)

- D24488: Updated installation of IRI Data Library at ZMD
- D24491: Updated installation of the NexGen System and related training (Completed 2021)
- D24503: Multi-stakeholder Dialogue Report on scaling CSA and climate services/data/innovations (Completed 2023)
- D24637: Training of ZMD staff on generation and delivery of maproom products (Completed 2022)
- D24642: Workshop report for the training on the NextGen system for sub-seasonal rainfall forecast
- D24645: Training on the NextGen system for sub-seasonal rainfall forecast
- D24649: Installation of Automatic Weather Stations (AWS) Climate Data Tool at ZMD and Training staff on the latest version of IRI's Climate Data Tool (CDT) (Completed 2022)
- D24638: Addition of climate variables to ZMD's gridded climate datasets (Completed 2023)
- D24807: Mid-year Report: International Research Institute for Climate and Society (IRI) January – June 2022 (Completed 2022)
- D24806: Training of trainers on Climate Risk Management in Ag Extension (Completed 2022)
- D24823: Lessons learned on impact of CIS training conducted under AICCRA
- D24804: Installation and configuration of AWS Data Tool (ADT) at ZMD
- D24805: Training on AWS Data Tool (ADT) at ZMD
- D25116: Training report for AICCRA partners and users on the use of climate data and information for climate risk management
- D25120: Training material (curriculum development) for AICCRA partners and users on the use of climate data and information for climate risk management
- D25299: Climate Smart Aquaculture for Smallholder Fish Farmers: Integrated Fish and Small Livestock Farming (Completed 2023)

- D24454: Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM) (Completed 2023)

A24208 - 2.3.3 Build capacity in three focus countries of public and private sector next users to support implementation of CSA technology packages

Description: In the three target countries, the respective lead CGIAR Centers will train CSA next users (extension officers, input providers, private sector and media) on CSA knowledge, approaches and tools to support effective adoption and implementation of CSA technologies and practices at scale in various value chains. AICCRA will encourage significant participation of women in capacity building events. Key actions: - Training and capacity enhancement - Climate related services through pilots - Provide local internships/ learning grants - Entrepreneurship webinar series

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga
<i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: Completed.

Deliverables in this activity: ● D24158: Integrated ag-data hub in Zambia using existing CIS platforms coupled with the iSAT and DEA data cube etc. (Completed 2022)

- D24514: CSA women and youth entrepreneurship webinar series (Completed 2022)
- D24513: SSU video episodes and implementation of CSA technology packages in key value chains communications campaign (Completed 2023)
- D24504: 1 catalogue of climate services training materials, co-developed and updated with users, supporting the awareness and upscaling of CSA and CIS
- D24505: Internship/learning grant program concept note (Completed 2022)
- D24506: AICCRA Zambia Accelerator Grant Concept Note (Completed 2021)
- D24508: Incubator/accelerator grant and internship program multimedia campaigns (Completed 2022)
- D24511: Lessons learned report: Incubator/accelerator grant mechanism and internship program (Completed 2023)
- D24474: Integrated, economically viable CSA technology packages co-designed, piloted and up-scaled for high potential areas reaching out to at least 50,000 farmers (Completed 2023)
- D24660: AICCRA Zambia Monitoring and Evaluation Plan (Completed 2021)
- D24575: AICCRA I2G Open Innovation Challenge - Internship and Grant Opportunity: Post Sprint and Ideation Lab Report (Completed 2023)
- D24521: Internship Tracer Survey Report Internship Innovation Grant (I2G) (Completed 2023)

A24211 - 2.3.4 Develop existing or strengthen new National Frameworks for Climate Services (NFCS)

Description: ILRI, IWMI and IRI will work with national institutions in the three focus countries, regional climate prediction centers and climate outlook forums to develop or strengthen NFCS. AICCRA will support strengthening national stakeholders' and private sector firms' capacities for sustained co-production and implementation of national early warning, climate service and agro-advisory delivery models streamlined through NFCSs. AICCRA will also enhance partnerships of national, regional and international partners to align NFCSs with global and regional frameworks for climate services. Key actions: - Support the development and strengthening of Zambia's National Framework for Climate Services (NFCS) - Develop and promote self-sustaining climate services and agro meteorological advisory systems through public and private partnership

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga
<i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: This phase is complete but will continue in the AF.

Deliverables in this activity: ● D24454: Stakeholder Engagement Report: The Development of a National Framework for Weather, Water and Climate Services for Zambia (NFWCS-ZM) (Completed 2023)

● D24533: AICCRA Country Scaling Vision: Zambia (Completed 2023)

● D24807: Mid-year Report: International Research Institute for Climate and Society (IRI) January – June 2022 (Completed 2022)

● D24988: Inception Report: Development of the national framework for weather, water; and (ii) climate services (NFWCS) for Zambia (Completed 2023)

A24214 - 3.3.1 Identify climate- and gender and social inclusion-smartness of CSA packages

Description: AICCRA together with regional agricultural research networks and national public and private sector partners in the three focus countries will identify and assess climate- and gender and social inclusion-smartness, biophysical and socio-economic feasibility, innovative finance modalities for end users, business models and inclusiveness of innovative CSA options, especially for women and youth. The work will also focus on mechanisms to de-risk private sector actors in piloting innovative finance modalities for end users and business modalities for CSA innovations/service delivery/production/distribution. Key actions: - Co-design, test and deploy affordable and scalable CSA packages - ID gender and youth vulnerability - Foster horizontal exchange between successful entrepreneurs and youth - ID institutional reforms, & develop business cases and finance modalities

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga
<i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: completed.

Deliverables in this activity: ● D24523: AICCRA Zambia Accelerator Deal Book (Completed 2022)

● D24521: Internship Tracer Survey Report Internship Innovation Grant (I2G) (Completed 2023)

● D24533: AICCRA Country Scaling Vision: Zambia (Completed 2023)

● D24506: AICCRA Zambia Accelerator Grant Concept Note (Completed 2021)

● D24514: CSA women and youth entrepreneurship webinar series (Completed 2022)

● D24791: Review Report on Gender Equality and Social Inclusion (GESI) elements in CIS components (Completed 2022)

● D25204: Framework for Incorporating Gender Equality and Social Inclusion (GESI) Elements in Climate Information Services (CIS) (Completed 2022)

● D25205: Progress report on AICCRA-Zambia internship (I2G) (Completed 2022)

A24217 - 3.3.2 Prioritize and increase awareness of best-bet CSA options and approaches for key value chains

Description: AICCRA will work with other CGIAR centers, national partners and NGOs to establish multi-stakeholder dialogue spaces, mobilize national and regional key stakeholders including farmer groups, cooperatives, unions to trigger effective CSA stakeholder engagement and south-south exchange and learning. It will select and prioritize best bet and promising CSA options and approaches for key value chains in the three anchor countries. AICCRA will create national level stakeholder awareness on CSA packages and identify inclusive scaling mechanisms and frameworks especially for women and youth. Key actions: - Participatory selection of key value chains - Multi-stakeholder dialogue space

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga
<i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: Completed.

Deliverables in this activity: ● D24477: AICCRA-Zambia multi-stakeholder dialogue (MSD) space: Together scaling climate smart agriculture and climate information services in Zambia (Completed 2022)

- D24499: Concept note for the establishment of a CoP/MSD for CIS delivery and CoP/MSD for CSA scaling in Zambia (Completed 2022)
- D24500: AICCRA CSA-Bundle two Lesson Learned Workshop Report (Completed 2023)
- D24514: CSA women and youth entrepreneurship webinar series (Completed 2022)
- D24955: Catalyzing Farmer-Led Irrigation Development in a Changing Climate: Four Key Research Areas for Achieving Scale and Impact
- D25562: Munda Make Over Series 1-Ep 16: Beef, Insurance, Fertilisers and Markets (Completed 2023)
- D24575: AICCRA I2G Open Innovation Challenge - Internship and Grant Opportunity: Post Sprint and Ideation Lab Report (Completed 2023)
- D25569: Munda Make Over Series 1-Ep 2: Mulching, Mixed livestock & legume, Seeds & working in a Cooperatives (Completed 2023)
- D25570: Munda Make Over Series 1-Ep 3: Climate smart seed, Fertiliser additive, Market and input deliveries (Completed 2023)
- D25571: Munda Make Over Series 1-Ep 4: Climate Seed, Crop Boost, Dairy and Insurance (Completed 2023)
- D25572: Munda Make Over Series 1-Ep 5: Groundnut production, Bee Keeping, Agro-Forestry & Financial Literacy (Completed 2023)
- D25405: Climate Risk Management in Agricultural Extension (CRMAE) Multistakeholder Curriculum Consultative Workshop in Zambia (Completed 2023)
- D25431: Roundtable Convening on Women and Youth SMEs in Agribusiness (Completed 2023)
- D25548: Chitetezo Cooperative Federation Capacity building report January to June 2023 (Completed 2023)
- D25553: Munda Make Over Series 1-Ep 7: Agronomic Practices, Fertiliser, Day old chicks and

PigsAgronomic Practices, Fertiliser, Day old chicks and Pigs (Completed 2023)

- D25554: Munda Make Over Series 1-Ep 8: Value Addition, Climate smart seed, Financial Literacy and Fertilizer (Completed 2023)
- D25555: Munda Make Over Series 1-Ep 9: Maize, Beef, Legumes and Record Keeping (Completed 2023)
- D25556: Munda Make Over Series 1-Ep 10:Climate Smart,Agronomy practices, Electric Pressure Cooker&Fertiliser (Completed 2023)
- D25557: Munda Make Over Series 1-Ep 11: Fingerlings, Fish feeds, Table size fish and Off takers (Completed 2023)
- D25558: Munda Make Over Series 1-Ep 12: Fish farming, Integration, Finance & Electric Pressure Cooker (Completed 2023)
- D25559: Munda Make Over Series 1-Ep 13: Climate smart crop, Aggregation, Nutrition, Biosecurity & Green fuel (Completed 2023)
- D25560: Munda Make Over Series 1-Ep 14: Organic Crop, Poultry feed, Farmer training and Winter brooding (Completed 2023)
- D25561: Munda Make Over Series 1-Ep 15: LPG, Harvest and post-harvest, Nutrition and Technology (Completed 2023)
- D25563: Munda Make Over Series 1-Ep 17: Hybrid Chicken, IPM, Fertilisers and Markets (Completed 2023)
- D25564: Munda Make Over Series 1-Ep 18: Beef, Climate smart crop and Markets (Completed 2023)
- D25565: Munda Make Over Series 1-Ep 19: Fertiliser, Solar Pumps, Markets and Electric Pressure Cooker (Completed 2023)
- D25566: Munda Make Over Series 1-Ep 20: Charcoal, Solar Pump, Financial Literacy and Markets (Completed 2023)
- D25567: Munda Make Over Series 1-Ep 6: Conservation Agriculture, Working in a COOP, Market and Mechanisation (Completed 2023)
- D25568: Munda Make Over Series 1-Ep 1:Farmer's Group, Conservation Agriculture,Compost manure & Agroforestry (Completed 2023)

A24220 - 3.3.3 Integrate climate-smart options and tailored CSI advisory systems for specific value chains

Description: AICCRA will formulate and/or identify suitable climate-smart options for cereals, legumes, livestock, fish value chains to be integrated into tailored climate-informed agro-advisory systems for distinct smallholder profiles. Key actions: - Promote the integration of CSA with CIS advisory systems - Ensure water is managed sustainably through consideration to sustainable yields of basins and aquifers

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: completed.

Deliverables in this activity: ● D24508: Incubator/accelerator grant and internship program multimedia campaigns (Completed 2022)

● D24511: Lessons learned report: Incubator/accelerator grant mechanism and internship program (Completed 2023)

● D24530: Launch of Zambia drought management system and technical session on drought management plans (Completed 2023)

● D24158: Integrated ag-data hub in Zambia using existing CIS platforms coupled with the iSAT and DEA data cube etc. (Completed 2022)

● D24535: The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture CSA – CIS into the Curricula of Zambian Higher Education Institutions (Completed 2023)

● D24659: Online system development/integration for accelerator grant and internship call, application and review processes (Completed 2021)

● D24978: AICCRA-Zambia Beneficiary Report (Completed 2022)

A24223 - 2.3.2 Enhance the capacity of public institutions and private firms to provide climate service delivery models

Description: AICCRA will lead work to build the capacity of public institutions, private sector firms, farmers' organizations, and the media for effective context-specific climate information services delivery in multiple value chains. It will focus on the co-design of training materials to communicate climate services by local actors (intermediaries and communicators, including media, journalists, rural radios, CBOs, NGOs, Ministry of Agriculture extension staff across Zambia, etc. to serve as the conveyors of climate information services to farmers) . AICCRA will encourage the participation of women scientists and researchers in partner institutions. Key actions: - Train intermediaries to communicate climate services at scale - 1 catalogue of climate services training materials, co-developed and updated with users, supporting the awareness and upscaling of CSA and CIS - Implement a local internship/ learning grant program - Provide accelerator grants for SMEs/entrepreneurs - Assess challenges in the enabling environment for startups and SMEs

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga <i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: Completed.

Deliverables in this activity:

- D24504: 1 catalogue of climate services training materials, co-developed and updated with users, supporting the awareness and upscaling of CSA and CIS
- D24508: Incubator/accelerator grant and internship program multimedia campaigns (Completed 2022)
- D24511: Lessons learned report: Incubator/accelerator grant mechanism and internship program (Completed 2023)
- D24484: Installation of the latest version of IRI's Climate Data Tool (CDT) at ZMD and related training (Completed 2021)
- D24488: Updated installation of IRI Data Library at ZMD
- D24870: Summary Report of CIS/CSA training and technical assistance provided under AICCRA Zambia (Completed 2022)
- D25205: Progress report on AICCRA-Zambia internship (I2G) (Completed 2022)
- D25116: Training report for AICCRA partners and users on the use of climate data and information for climate risk management
- D25120: Training material (curriculum development) for AICCRA partners and users on the use of climate data and information for climate risk management
- D25299: Climate Smart Aquaculture for Smallholder Fish Farmers: Integrated Fish and Small Livestock Farming (Completed 2023)
- D24535: The Nationwide assessment for the Needs and Pathways for integration of Climate Smart Agriculture CSA – CIS into the Curricula of Zambian Higher Education Institutions (Completed 2023)
- D24575: AICCRA I2G Open Innovation Challenge - Internship and Grant Opportunity: Post Sprint and Ideation Lab Report (Completed 2023)

A24226 - 3.3.4 Develop and promote climate-smart agricultural investment plans in East Africa

Description: Alliance Bioversity-CIAT and IWMI with support from other partners will develop or refine existing CSAIPs, conducting stakeholder mapping and public-private dialogues to identify potential investors, developing investment prospectuses and opportunities including for farmers, women and youth, and identifying specific financiers and financing instruments to support scaling of CSA, CSI services and agro-advisories. Key actions: - Evaluation of potential for nature-based solutions (NBS) and CSA within the CSAIP - Identify suitable financing mechanisms, the use of fiscal tools to de-risk (big and small) private sector investments in food value chains - Develop district level drought contingency plan to mitigate drought risk - Implement sustainable finance options

Start date: Jan 2021

End date: Dec 2023

Activity leader: CGIAR IWMI - International Water Management Institute Jacobs-Mata, Inga
<i.jacobs-mata@cgiar.org>

Activity status: Complete

Overall activity or progress made during this cycle: This phase is complete this will continue in the AF.

Deliverables in this activity:

- D24536: Nature-based Solutions (NbS) review report: Assessing the Potential of NbS for Climate Adaptation and Investment Opportunities for Financing NbS in Zambia
- D24474: Integrated, economically viable CSA technology packages co-designed, piloted and up-scaled for high potential areas reaching out to at least 50,000 farmers (Completed 2023)