

# Development of Climate Smart Agriculture and Climate Information System Relevant Curricula for Staff, Students and other stakeholders in Universities in Africa

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Workshop Report



**AICCRA**  
Accelerating Impacts of CGIAR  
Climate Research for Africa



# **Development of Climate Smart Agriculture and Climate Information System Relevant Curricula for Staff, Students and other stakeholders in Universities in Africa**

## **Workshop Report**

**Accelerating Impacts of CGIAR Climate Research for Africa  
(AICCRA)**

**July 2022**

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### **About AICCRA reports**

Titles in this series aim to disseminate interim climate change, agriculture, and food security research and practices and stimulate feedback from the scientific community.

### **About AICCRA**

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## **Acknowledgments**

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## **About the authors**

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## Background

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The Accelerating Impacts of [CGIAR](#) Climate Research for Africa project ([AICCRA](#)), working through [CCAFS](#), intends to make CGIAR-led cutting-edge science practices/technologies/tools available throughout Africa; especially in Sub-regions extremely vulnerable to climate change. The Regional Universities Forum for Capacity Building in Agriculture (RUFORUM), a network of 150 universities in 38 countries spanning the whole African continent is a partner in the AICCRA project. RUFORUM's contribution in the AICCRA project is focused on mobilising African universities, create awareness and enhance the use of Climate Smart Agriculture (CSA) and Climate information services (CIS) knowledge and products developed by the CGIAR Centres and other research institutions engaged in CSA and CIS. Enhancing the use of CSA and CIS involves capacity, knowledge and technology audits at national and institutional level, mobilise CGIAR and other research centres to provide CSA and CIS knowledge, technology and skills and training of faculty to deploy the CSA and CIS products in training, research and outreach. Knowledge transfer and capacity-building activities therefore form the central part of RUFORUM's participation in the AICCRA project.

RUFORUM undertook a national and institutional scoping study to identify gaps in CSA and CIS in Benin, Democratic Republic of Congo, Ethiopia, Kenya, Uganda, Zambia, and Zimbabwe. Further, the study focused on review and compilation of an inventory of existing academic programmes & courses related to CSA / CIS and the potential resource persons in the universities. The study revealed that CSA clusters vary from one country to another, but the dominant ones include Land Restoration and Agroforestry system (LRA) as the priority area number one, followed by Crop diversification CD, Water Harvesting and Management-Small scale irrigation (WHM) and Livestock & Aquaculture Management-LAM. The team thus, through consultation with different stakeholders identified seven (7) priority areas for the development of training materials to create awareness and build capacity at the university level. The initial steps were taken to identify resource persons and the drafting of course outlines and course materials where feasible.

It is against this background that RUFORUM organised a workshop for the development and refinement of CIS/CSA training materials to be used across the RUFORUM Network. The workshop took advantage of existing expertise, knowledge and innovations developed by the CGIAR and other global partners to enrich the courses and or adopt existing programs that focus on the CSA and CIS prioritised areas. The workshop provided peer to peer support and got insights from CGAIR centres such as International Livestock Research Institute (ILRI), International Research Institute for Climate and Society (IRI), Alliance of Bioversity International and CIAT and other partners under the AICCRA program, to form the building blocks for a program to train university staff for possible integration of CSA/CIS in the academic curriculum that are currently running.

## Location and period of the workshop

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The workshop was held at the Nairobi Safari Club in Nairobi, Kenya from Tuesday 12<sup>th</sup> to Friday 15<sup>th</sup> July 2022.

## Objectives

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The overall objective of workshop was to enrich and refine training materials and the approach to be adopted for CSA and CIS in universities in Africa to be further customised for next users.

The specific objectives of the workshop were:

1. Review of the content and delivery approaches for the seven (7) CSA and CIS prioritised training modules;
2. Create awareness on CSA and CIS areas of importance as identified by CGIAR partners to be taken into account in development of the prioritised CIS and CSA modules;
3. Establish the approach to be adopted for the Training of Trainers at the university level;
4. Design and enrich the format of training materials to be adopted for the university community and next users; and,

Visit demonstration sites of applied Climate Smart Agriculture (CSA) practices and Climate Information Services.

## Attendance

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The invited academia were mainly from RUFORUM member universities, apart from some exceptions belonging to West African Science Service Centre on Climate Change and Adapted Land Use (WASCAL), International Livestock Research Institute (ILRI), International Research Institute for Climate and Society (IRI) and Alliance of Bioversity International and CIAT. A total of 32 participants from 13 organisations took part in the workshop both face to face and virtually.

## Workshop Process and Timeline

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The overall objective of the four day workshop was to enrich and refine training materials and the approach to be adopted for CSA and CIS in universities in Africa to be further customised for next users. A field visit was organised to Sylvia's Basket Farm for first-hand experience and interaction with a progressive farmer practicing CSA.

## Setting the scene

Introductions,

1. Welcome statement by the Deputy Executive Secretary, RUFORUM, Dr. Florence Nakayiwa,
2. Statement from the ESA program Lead, Dr. Solomon Dawit,
3. Statement from WASCAL, Prof. Doda Kone.

Prof. Mwanjalolo Majaliwa gave insight into the results of the Scoping Study and thanked the participants for creating time to travel to Nairobi and be part of the meeting. Finally, he wished all participants a good and successful workshop.

## Approach

The approach used was individual presentation on the proposed curriculum followed feedback and group discussion. This allowed for maximum interaction among group members supported by the facilitator.

Each day was finished with the workshop participants given tasks to do focusing on the proposed curriculum themes. A recap of each day was given to remind participants of the previous day process and discussions. Programme (Annex 2). The workshop ended with a tour to CSA and/or CIS demonstrated technologies and innovations at Sylvia's Basket Farm.



**Field Visit- Sylvia's Basket Rift Valley Farm – interaction with curriculum development** workshop participants

## Main Messages

- The Accelerating Impacts of CGIAR Climate Research for Africa project (AICCRA) working through CCAFS intends to make CGIAR-led cutting-edge science practices/technologies/tools available throughout Africa; especially in Sub-regions extremely vulnerable to climate change.
- AICCRA components:
  - Knowledge generation, technology and service sharing;
  - Partnerships and capacity for delivery
  - CIS and CSA technology promotion, delivery and inclusive access to facilitate scaling
- RUFORUM as a partner in the AICCRA project is focused on mobilising African universities create awareness and enhance the use of CSA and CIS knowledge and products developed by the CGIAR Centres and other research institutions engaged in CSA and CIS.



- In West Africa RUFORUM is partnering with WASCAL, which will offer short courses to stakeholders under this AICCRA programme to ensure ease of dissemination and capacity development.
- AICCRA has six core countries – Ethiopia, Kenya, Zambia (ESA) and Ghana, Mali, Senegal (WA) as well as spill over Africa wide coverage
- RUFORUM undertook a national and institutional scoping study to identify gaps in CSA and CIS in Benin, Democratic Republic of Congo, Ethiopia, Kenya, Uganda, Zambia, and Zimbabwe. Key findings include:
- Eight modules were identified by the scoping study and training materials developed by respective resource persons as indicated below.

The scoping study a build up from the needs assessment workshop hosted during RUFORUM Triennial in Benin identified seven areas of focus for the development of Climate Smart Agriculture and Climate Information System Relevant Modules for Staff, Students and other stakeholders in Universities in Africa

Key resource persons/teams from RUFORUM member universities were commissioned to develop training materials that will then be customised, integrated in existing curricular and or offered as standalone modules in the member universities.

#	Modules	Module Development Resource Persons
1	CSA and CIS-oriented technologies and extension strategies	Oliver Wasonga Prof Agyare Wilson
2	Cost-effective renewable energy and biogas production,	Prof Katcho,
3	Improve policy review and coordination and strengthen local, national and regional institutions to support implementation of CSA and CIS	Chrispen Murungweni Prof KONE Daouda, Alice Bonou
4	Climate information service and real-time agricultural data	Prof Kibe, Egerton University Prof Majaliwa, Dr Diallo Yacouba
5	Crop-livestock aquaculture integration	Dr Chabi DJAGOUN Prof Koné Daouda
6	Nutrients and water management in crop production.	Zelalem Bekeko Gabiri Geoffrey Ethiopia
7	Indigenous and local trees based agroforestry systems involving*	Prof Achille Assogbadjo Egeru Anthony

The Modules were refined to reflect clarity of focus and logical flow at the point of delivery.

#	Modules	Module Development Resource Persons
1	Climate information service and real-time agricultural data	Majaliwa, , Amadou Coulibaly
2	CSA and CIS-oriented technologies and extension strategies	Oliver Wasonga, Antony Kibe Agyare Wilson
3	Climate smart nutrient and water management in crop production.	Zelalem Bekeko Kizza Luswata Elijah Phiri
4	Climate smart crop-livestock-aquaculture integration	Chabi DJAGOUN Fatogoma Sorho Jolyn Rukarwa
5	Indigenous and local tree based agroforestry systems	Achille Assogbadjo Egeru Anthony,
6	Cost-effective renewable energy technologies for agricultural production	Katcho Karume Alice Mweetwa
7	Policy framework to support implementation of CSA and CIS	Chrispen Murungweni KONE Daouda Alice Bonou

- To enrich the modules and to enhance their appreciation of CIS/CSA in the finalisation of the modules the teams received presentations on:
  - The Ethiopian experience of networked universities developing CIS/CSA curriculum under the AICCRA program
  - CGIAR knowledge and products on CSA and CIS (Basic CSA-CIS) including the need for bundling
  - Guiding principles in curriculum design focusing on; Scope, Sequencing, Continuity, Sequencing, Integration, Alignment and Flexibility, the approaches to ToT.
  - Pedagogical practice useful and applicable beyond the modules being developed under AICCRA
  - Policy dimensions under AICCRA envisioned to enhance collaboration through sharing of slides decks and reading lists, provision of case study material and connection to guest speakers on specific topics
  - ABCs of climate smart Agriculture and some CSA implementation tools <https://aiccra.cgiar.org/our-work/tools-support-pack> and approaches <https://csa.guide/> Including:

- CSA investment prioritisation framework
- Climate-Smart Agriculture Investment Plan Development
- Evidence for Resilient Agriculture (ERA)
- Cost benefit analysis tool for climate smart agricultural practices/technologies
- CSA Programming and Indicator Tool
- CSA Rapid Appraisal (CSA-RA): A Prioritization Tool for Out-scaling CSA
- Climate-smart village approach
- IRI Approach to Education and Training in Climate Risk Management for Agriculture involves:
  - Generation
  - Translation
  - Transferring
  - use of the information
- IRI has three modules developed based on gap analysis developed through, consultative workshops, Validation workshops, Training of Trainers and course piloting these include:
  - Climate risk management in Agriculture extension with 4 modules
  - Climate Risk Management in Agriculture with 5 topics
  - Graduate Certificate Curriculum with five modules

## Next steps

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AICCRA is a multi-partner, multi activity initiative, it is important to tap into the activities of other partners and their activities for CSA/CIS curriculum development. Specifically:

1. Follow up with the short term courses under the IRI- Columbia University which will be developed for the RUFORUM Platform
2. Follow up with WASCAL on the courses to be developed for the West Africa component but will be applicable across the RUFORUM Network. Tap into the experience of WASCAL for offering CSA/CSIS courses
3. All training modules should be ready for sharing by the end of the Month of July 2022;
4. There will be a peer review mechanism for the modules/training materials as developed
5. Course developers and focal points in the university explore/identify the appropriate staff to participate in the series of training of trainers' workshop that will follow finalisation of the training modules.
6. Loop into the activities of the RUFORUM AGM Scheduled for December 2022 in Harare for wider coverage for the training of trainers



***Sylvia's Basket explaining the CSA approach at the farm***

## Annex 1 List of Participants

No	Name	Institution	Country	Email
1	Kibe Anthony	Egerton University	Kenya	<a href="mailto:kibeanto@gmail.com">kibeanto@gmail.com</a>
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25	Solomon Dawit	ILRI	Ethiopia	online
26	Ashley Curtis	IRI	USA	online
27	Tufa Dinku	IRI	USA	online
28	Ouedraogo Mathieu	CIAT	Kigali	online
29	James Hansen	IRI	USA	online
30	Amanda Grossi	IRI	USA	online
31	Walter Baethgen	IRI	USA	online
32	Zebiak Stephen E.	IRI	USA	online

# Annex 2: Programme of the Workshop

Development of Climate Smart Agriculture and Climate Information System Relevant Curricula for Staff, Students and other stakeholders in Universities in Africa

12 – 15 July 2022

Nairobi Safari Club, Kenya

## Day 1: Tuesday 12th July 2022

TIME	ACTIVITY	RESPONSIBLE PERSONS
08:30 – 9:00	Arrival and registration of participants	Loyce Angoku, RUFORUM
9:00 – 9:10	Welcome Remarks, Background and objectives of the Workshop	Dr. Florence Nakayiwa Mayega, RUFORUM
9:10 – 9:20	Remarks from the ESA program Lead	Dr. Solomon Dawit, ILRI
9:20 – 9:30	Remarks from WASCAL, West Africa	Prof. Doda Kone
9:30 – 9:50	Presentation of the Scoping Study Report	Prof. Jackson Majaliwa Mwanjalolo, RUFORUM
9:50 – 10:00	Open discussion of the Scoping study report	All participants
<b>10:00 – 10:30</b>	<b>HEALTH/COFFEE/TEA BREAK</b>	Loyce Angoku, RUFORUM
10:30 – 11:00	Presentation of CGIAR knowledge and products on CSA and CIS ( Basic CSA-CIS)	Porf. Berhanu Belay
11:00-11:30	Open discussion on the CGIAR CSA and CIS products	
11:30 – 12:00	<b>Pedagogy</b> - Designing curriculum as standalone and integration of modules in existing curriculum- <i>format and target audience</i>	Prof Betty Ezati
12:00 – 12:30	Open discussion on Pedagogy	All participants
<b>12:30 – 13:30</b>	<b>Lunch Break</b>	<b>Loyce Angoku, RIFORUM</b>
13:30 – 17:30	Policy dimensions under AICCRA	Laura Cramer
	CSA Knowledge Products	Mathieu
	CSA-CIS Extension Services	<b>Desire Kagabo</b>
	<b>Health/Coffee/Tea Break</b>	<b>Loyce Angoku, RUFORUM</b>
	IRI's CSA and CIS knowledge products and services	Dr. Tufa Dinku
	IRI Approach to Education and Training in Climate Risk Management for Agriculture	Dr Walter Baethgen/Amanda Grossi
	Curriculum Modules for Professional Training Graduate Level Education	Dr. Jim Hansen
	<b>General Discussion</b>	
<b>18:00</b>	Closure of the day and the activity plan for day two – Refinement of training modules	

## Day Two: Wednesday, 13<sup>th</sup> July 2022

TIME	ACTIVITY	RESPONSIBLE PERSONS
08:00 – 9:00	Arrival and registration of participants	Loyce Angoku, RUFORUM
9:00 – 9:20	RECAP of Day 1	Dr. Anthony Egeru
9:20 – 9:40	Presentation of Module on <i>CSA and CIS-oriented technologies and extension strategies</i>	Dr. Oliver Vivian Wasonga, University of Nairobi
9:40 – 10:00	Open discussion of the Module - <i>Module on CSA and CIS-oriented technologies and extension strategies</i>	All participants
<b>10:00 – 10:30</b>	<b>Health Break</b>	<b>Loyce Angoku, RUFORUM</b>
10:30 – 10:50	Presentation of the module on <i>Cost-effective renewable energy and biogas production</i>	Prof. Katcho Karume, Catholique Evangelique en Afrique, DRC
10:50 – 11:20	Open discussion on the Module <i>Cost-effective renewable energy and biogas production</i>	All participants
11:20-11:40	Presentation of Module on <i>Crop-livestock aquaculture integration</i>	Dr Chabi DJAGOUN, University of Abomey Calavi, Benin
11:40-12:10	Open discussion of the module on <i>Crop-livestock aquaculture integration</i>	All participants
12:10-12:30	Presentation of the module on <i>Indigenous and local trees-based agroforestry systems</i>	Prof Achille Assogbadjo, University of Abomey Calavi
12:30-13:00	Open discussion of the module <i>Indigenous and local trees-based agroforestry systems</i>	All participants
<b>13:00 – 14:00</b>	<b>Lunch Break</b>	<b>Loyce Angoku</b>
14:00 – 14:20	Presentation of the module on <i>Policy reviews and coordination at local, national and regional institutions in support of CSA and CIS</i>	Prof. Chrispen Murungweni, Zimbabwe
14:20-14:40	Open discussion on the module on <i>Policy reviews and coordination at local, national and regional institutions in support of CSA and CIS</i>	All participants
14:40-15:30	Commentary/Presentation on the approach to the Training of Trainers at the university level	Prof Betty Ezati
	Q&A	
15:30- 18:00	Refining of Training Materials	All participants
18:00	Closure of day two and activities for day three	

([AU-NEPAD 2016](#), [Sibyl 2016](#), [FAO 2021](#))

### Day Three: Thursday, 14<sup>th</sup> July 2022

TIME	ACTIVITY	RESPONSIBLE PERSONS
08:00 – 9:00	Arrival and registration of participants	Loyce Angoku, RUFORUM
9:00 – 9:30	RECAP of Day 2	Dr. Anthony Egeru
9:30- 9:50	Presentation of the module on <i>Nutrients and water management in crop production</i>	Dr. Zelalem Bekeko, Haramaya University, Ethiopia
9:50 – 10:30	Open discussion on the Module <i>Nutrients and water management in crop production</i>	All participants
<b>10:30 – 11:00</b>	<b>HEALTH/COFFEE/TEA BREAK</b>	<b>Loyce Angoku, RUFORUM</b>
11:00 – 11:20	<b>WASCAL – Activity plan and modules-integrating Gender in training modules</b>	<b>Ptof Daouda Kone</b>
11:20 – 11:30	Discussion	
<b>12:00 -13:20</b>	Refined Curriculum Improvement areas- presentation	<b>All participants</b>
<b>13:00 – 14:00</b>	<b>Lunch Break</b>	<b>Loyce Angoku, RIFORUM</b>
14:00 – 14:20	Presentation on the approach to the Training of Trainers for next users	Dr. Ashley Curtis Amanda Grossi
14:-20- 15:20	Open discussion on the approach to the Training of Trainers for next users	All participants
<b>15:20 – 15:30</b>	<b>Health/Coffee/Tea Break</b>	<b>Loyce Angoku</b>
15:30 – 17:30	Refined Curriculum Improvement areas- presentation	All participants
18:10 – 18:20	Closure of day three, activities for day Four and next steps	Dr. Alice Mutiti Mweetwa

### Day Four – Friday 15<sup>th</sup> July 2022

TIME	ACTIVITY	RESPONSIBLE PERSONS
08:00 – 9:00	Arrival and registration of participants	Loyce Angoku, RUFORUM
9:00- 10:00	<b>Next Steps</b> - Program and logistics for Training of Trainers-	Prof. Majaliwa
<b>10:30 – 11:00</b>	<b>WORKING TEA</b>	<b>Loyce Angoku, RUFORUM</b>

**Mid-morning- Afternoon - Visit to CSA and/or CIS demonstrated technologies and innovations (Prof Wesonga/Dr. Egeru)**





**AICCRA**  
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Climate Research for Africa



## About AICCRA

Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA) is a project that helps deliver a climate-smart African future driven by science and innovation in agriculture.

It is led by the Alliance of Bioversity International and CIAT and supported by a grant from the International Development Association (IDA) of the World Bank.

Discover more at [aiccra.cgiar.org](http://aiccra.cgiar.org)

AICCRA Eastern and Southern Africa is led and hosted by OneCGIAR centers:

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AICCRA is supported by the International Development Association of the World Bank:

