AI4D PRESENTATION 11th MARCH, 2022

Research and Services Network (A Hub) for Responsible Artificial Intelligence for Climate Action Innovation in Africa [RESEN-RAICAIA]







Professor KONE Daouda

Director WASCAL Capacity Building Department

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Combating Climate Change. Improving Livelihoods



SPONSORED BY THE





1- Professor Kone Daouda (Lead Applicant)

Director Capacity Building Department West African Science Center Service on Climate Change and Adapted Land Use (WASCAL)

Email: kone.d@wascal.org

2- Professor Majaliwa Mwanjalolo Jackson-Gilbert

Technical Assistant to the Executive Secretary Regional Universities Forum for Capacity Building in Agriculture (RUFORUM)

Email: majaliwam@gmail.com

3- Dr. Racine Ly

Director - Data Management, Digital Products, and Technology, AKADEMIYA2063, Kigali, Rwanda Email: rly@akademiya2063.org











WASCAL seeks to become one of Africa's leading science-based institutions in the provision of climate services in and for West Africa



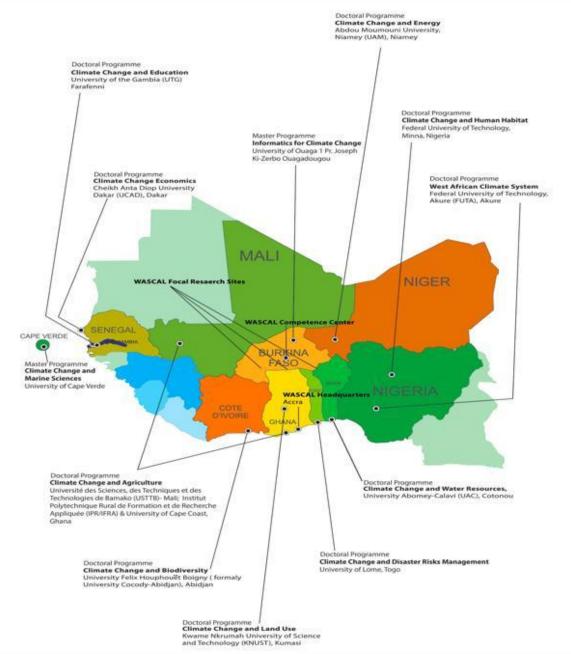


OUR MISSION

To provide information and knowledge at the local, national, and regional levels to its West African member countries to cope with the adverse impacts of climate change and devise integrated mid and long-term options to build up resilient and productive socio-ecological landscapes.

WascaL West African Science Service Ceritre on Climate Change and Adapted Land Use

WASCAL SCHOOLS IN WEST AFRICA

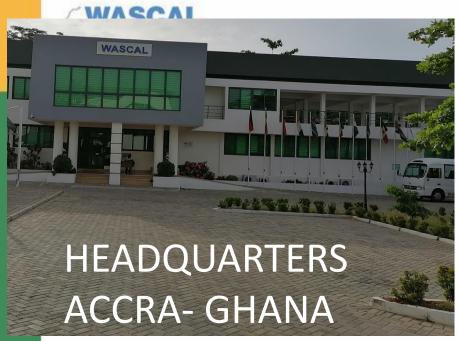




WASCAL CAPACITY BUILDING DEPARTMENT

Educate the next generation of climat experts for Africa in different climate related issues for more resilience of the communities using suitable and sustainable management strategies.

Strengthen in relevant areas the existing human capacity of member countries to allow them to participate in the on-going global discourse on climate change and respond to current and future adaptation /mitigation challenges.









General Objective

To create an innovative research network in order to implement climate action in Africa through the responsible development and deployment of artificial intelligence innovations.

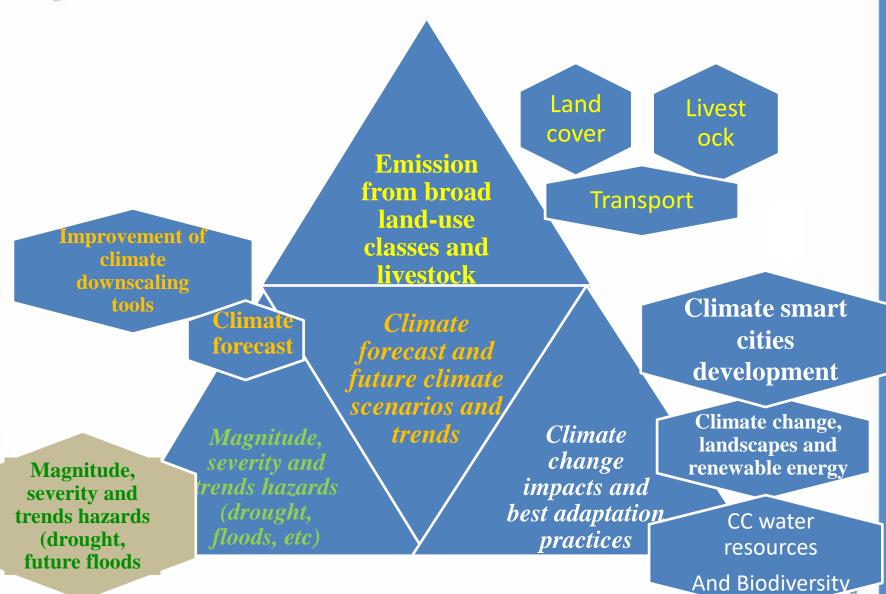


Specific Objectives

- 1. Deepen understanding of how to develop and scale responsible AI innovations for climate action in sub-Saharan Africa;
- 2. Build the capacity of 10 groups of African innovators and researchers to develop, deploy and scale responsible AI applications in climate action; and
- 3. Facilitate the contribution of African research to international AI policy and practice conversations



Main subject focus





Describe the network structure and setup

- High level description of how the network will be built and what it will look like
- Use an image if possible.

Promoting AI Deploiement



Applied
Research
Technology
developement
Net working



Policy and Gender issues
Communication
Monitoring



Innovation-Al development

Capacity Building

PROJECT SCHEDULE

WASCAL West African Science Service Centre on Climate Change and Adapted Land Use

Contributing to the overall AI4D Africa program strategy

Year 1

Year 2

Year 3

Kick off

- Establish and manage the network of Al for Climate Action
- Hold a subgrantee training on responsible Al practices and approaches

Hold a virtual biannual lesson sharing event Joint Communication

- Hold two research proposals development Write-shop to respond to Calls for Proposals
- •Submit at least 20 research proposals to access additional funding

Organise two
annual crossproject
networking,
lesson sharing
and collaboration
with other AI4D
tracks

- Support uptake and scaling of research for policy or practice change
- Develop peer reviewed articles policy briefs

Implementation of the subgrants including sub-grantee monitoring and evaluation

Technical backstopping, training workshops, networking and cross-project learning support to sub-grantees

Contributing to advancing knowledge and policy dialogues

Project management and evaluation



KEY RESULTS

- A network of at least 30 researchers and innovators (at least 3 per project) in responsible AI for climate action Developed.
- Mechanisms for expanding the network and leveraging more resources put in place
- At least 20 (10 female and 10 male) PhD trained
- At least 40 peer reviewed publications generated
- Knowledge generated widely disseminated to scientists and policy makers on the continent



West African Science Service Centre on Climate Change and Adapted Land Use (WASCAL) in partnership with

The Regional Universities Forum for Capacity Building in Agriculture (RUFORUM);

and

AKADEMIYA2063

Call for proposals of the Canada's International Development Research Centre (IDRC) and the Swedish International Development Agency (Sida) Graduate Research Grants

Call ID: IDRC-SIDA-RUFORUM/WASCAL/A2063-GRG /2022 called IDRC-SIDA-RESEN-RAICAIA-GRG /2022

Call for research proposals

On behalf of the Research and Services Network (A Hub) for Responsible Artificial Intelligence for Climate Action Innovation in Africa [RESEN-RAICAIA],

7	ecting on deliverable	Deliverables	Responsible	Participants	12	1 2	3 4	5	6 7	8 9	10 1	1 12	1 2	3	4 5	5 6	7	8 9	10	11 12	1 3	2 3	4 5	6 7	8	
•	CONTROL OF THE CONTRO	Kick-off meeting Inception report Number of meetings	WASCAL with all partners All (WASCAL to contact)	RUFORUM (2) AKADEMIYA (2)	LOA						Н	+			-		H	+		-				-		
-1	Sender strategy	Gender Strategy Report	RUFORUM								т	\neg		П	T	T	H	T	П		П					
	stablish and manage the network of Al for Climate Action	Gender Strategy Report	KOFOKOW			ш											Ш				ш					
j	1.1. Develop and publish a call for proposals for AI for climate Action innovation research	Call	RUFORUM	WASCAL & A2063										П	T	T	П									
2	Constitute a multi-disciplinary review committee of experts with equal participation of men and women	Committee of experts	RUFORUM collects the information	WASCAL & A2063																						
Ţ																										
3	.2. Review and selection of the 10 sub-grants	10 selected Grants	RUFORUM	WASCAL & AKADEMIYA			Swee	ks-selection																		
	.3. Implementation of the sub-grants including sub-grantee monitoring and evaluation	Grant Network set-digitable receptacle-	RUFORUM	WASCAL & AKADEMIYA			_																			
5	.4. Constitution of the Network of AI for Climate Action in Africa	communication channel	A2063	WASCAL & RUFORUM																	Ш	\perp		\perp		
_																										
ı	2. Technical backstopping, training workshops, networking and cross-project learning support to sub-grantees																									
	2.1. Organise Principal Investigators' Orientation meeting to train on research methodologies and administrative requirements	Report on Principal Investigator training on research methodology and	AKADEMIYA & RUFORUM																							
٥	2.1. Organise Principal Investigators: Orientation meeting to train on research methodologies and administrative requirements	Orientation, Training Materials	AKADEMITA & RUFURUM																							
₇	2.2. Hold a sub-grantee training on responsible AI practices and approaches	Training modules and report of the	AKADEMIYA2063																							
-		training including list of sub-grantees Report of the highlights of lessons									H	+	-		-	+	H	+		+	H			+	-	
8	2.3. Hold a virtual bi-annual lesson sharing event	leamt	WASCAL	RUFORUM-AKADEMIYA2063							ш	٠,			4	+		_		_				$-\!\!\!+\!\!\!\!-\!\!\!\!+\!\!\!\!-$	_	Н
9	2.4. Establish joint project communication channels to share lessons including mailing list, groups for discussions and social media pages	Established communication channels/social media platforms	WASCAL	RUFORUM-AKADEMIYA2063							x									х						
١	MATERIAL CONTROL OF THE CONTROL OF T	Cross-project collaboration including the Profiling of Inventory of Requests												ш												
10	2.5. Facilitate cross-project collaboration where appropriate	for Support and number of collaborations brokered.	RUFORUM & ACADEMIYA	WASCAL																						
11	2.6. Link network members in finding engagement opportunities with climate change initiatives that may benefit from their	Platform for sharing information (WhatsApp, Mailing Lists, Presentation	WASCAL	RUFORUM-AKADEMIYA2063			Т																			
_	research results and methods	of Results, etc)				Ш	+	1 1																		
12	2.7. Look for funding opportunities to scale out sub-grantee research and its results	Profile of Funding Opportunities	All partners			Ш	_	\perp															_	_ _		\sqcup
13	2.8. Hold two research proposals development Write-shop to respond to Calls for Proposals	Report on two research proposal writeshop and list of attendees and	AKADEMIYA2063																							
14	2.9. Submit 20 research proposals	trainers contact Proposals successfully developed and	RUFORUM & ACADEMIYA2063	WASCAL													H	1								
_		submitted for funding Organised Seminars and Talks for Sub-	AKADEMIYA2063			H	+	+		+			4	\vdash		+			Ħ			+	+	+	+	+
15	2.10. Connect sub-grantees to other global research networks in AI for Climate Change	grantees	ANADEMIYAZU63		-	Н	_	+	\perp	-			H	+		+	H			+		44	+		-	+
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	ernational collaboration, cross-project communication and collaboration with other AI4D programmes 3.1. Establish a formal partnership with agriculture and food systems, education and gender/inclusion						_	_	_					-	_			_	1 1	_		т т	_		_	
	racks specifying joint activities	MoU and Report on Joint Activities	WASCAL	RUFORUM-AKADEMIYA2063																						
7	3.3. Participate in the creation of joint AI4D communication channels	Creation of AI4D Joint communication channel	WASCAL	RUFORUM-AKADEMIYA2063																						
_	3.4. Organise two annual cross-project networking, lesson sharing and collaboration with other AI4D	Two annual project nekworking									H						H	1								
	racks	meetings organized for sharing lessons	WASCAL	RUFORUM-AKADEMIYA2063																						
	3.5 Coordinate and participate in at least two international Climate Change AI networks conferences to engage in global and multi-disciplinary exchange	Publications of the proceedings of two international Climate Change Al	WASCAL/all partners																							
_	nanti-disciplinary exchange	networks conferences WASCAL	WASCAL	RUFORUM-AKADEMIYA2063			-				\vdash	-	-	+	-	-	+	-	+						-	
_	Contributing to advancing knowledge and policy dialogues	WASCAL	WASCAL	KOFOKOM-AKADEMITA2003																						
_	1.1. Produce a baseline scanning document of AI for climate action innovations in Africa	Production of baseline scanning	AKADEMIYA2063	WASCAL & RUFORUM							Н							-				##				Н
_		document of AI in Africa Strategy on communication and	WASCAL	RUFORUM-AKADEMIYA2063							\vdash	-	-	+	-		H	-	+	+				+	-	
21	4.2. Develop a communication and knowledge management strategy for the Hub	knowledge management Reports on the state of Al Innovations	WASCAL	RUFURUM-AKADEMITA2063		$\vdash\vdash\vdash$				-	H	+		++	-	+	H	+	+	_	H				-	
22	1.3. Produce 2 reports on the state of AI innovations in climate action in Africa	in Africa (ask subgrant leader to do that)	AKADEMIYA2063	WASCAL-RUFORUM																						
7	4.4 Design of the state of the	Compilation of lessons learned from									H						H				H					
	4.4. Design a framework for facilitating the synthesis of lessons learned from across the different innovation projects supported by the network	innovative projects and recommendations for future projects	WASCAL	RUFORUM-AKADEMIYA2063														н								
24	1.5. Establish a data center to store data generated from research projects	Establishment of Data center	WASCAL	RUFORUM-AKADEMIYA2063			+		+		Н			H	-	+	H	-		+	H		-	+	_	Н
_	1.6. Support uptake and scaling of research for policy or practice change	Strategy for managing change	RUFORUM				_		_					+	-	+	H	+		_		+	-	+		Н
_	1.7. Annually release data sets that are generated by the research project	Availability of data sets on the Data	AKADEMIYA2063	WASCAL & RUFORUM		H	+	+	+	+	+	+	H	H	+	+	H	-	H	+	H	+	+	+	+	+
_	1.7. Annuary release data sets that are generated by the research project 1.8. Facilitate development and publication of scientific peer reviewed articles from research projects in accordance with IDRC's	center	WASCAL (Coordinate Subgrantee	MAGGAL & ROPOROM		Н	+	+	+		+	+		+	-	+	+	F	+	+	H	+	+		-	+
	 racuitate development and publication of scientific peer reviewed articles from research projects in accordance with IDRC's Open Access Policy 	Number of articles published in high quality journals	WASCAL (Coordinate Subgrantee team with all partners)																							
28	4.9. Develop peer reviewed articles at consolidating the outputs from the 10 research projects	Articles developed for high quality journals	Subgrantee team with all partners								П			Ħ	T		П									П
29	1.10. Develop policy briefs from the scientific publications	Policy briefs from scientific publication	WASCAL/RUFORUM			Ш			\Box		Ħ			Ħ	Ť	T	Ħ		Ħ			11		T		Ħ
30	4.11. Organise two continental level policy meetings to discuss AI for Climate Change Policy	Reports on two continental meetings on policy meetings	WASCAL/ACADEMIYA2063								П			Ħ	T											П
_	1.12. Hold social media campaigns on research outputs	Organization of social media campaigns	WASCAL	RUFORUM-AKADEMIYA2063		Ш											أليرا									П
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i. Co	ntributing to the overall AI4D Africa program strategy							1																	1	1 1
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-		and highlights of attendees Monitoring and evaluation of AI4D	WASCAL RUFORUM	RUFORUM-AKADEMIYA2063 WASCAL & AKADEMIYA2063		Tim	ing to b	e determi	ined by	IDRC				П	T		П	T	П		П					
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KEY RESULTS

- A network of at least 30 researchers and innovators (at least 3 per project) in responsible AI for climate action Developed.
- Mechanisms for expanding the network and leveraging more resources put in place
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