

Uganda Water and Environment Week 2020

Sunday 13th - Friday 18th September 2020

Venue: Ministry of Water and Environment - Luzira

Theme: "Water and Environment Resources for Inclusive-Growth, Employment and Wealth Creation."

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UWEWK 2020 PROGRAM









UGANDA WATER AND ENVIROMENT WEEK (UWEWK) 2020

Sunday 13th - Friday 18th September 2020

OVERVIEW

Uganda Water and Environment Week (UWEWK) is a weeklong event that is organized annually by Ministry of Water and Environment (MWE) through the Water Resources Institute (WRI). Since its inception in 2018, the event seeks to contribute towards the attainment of Sustainable Socio-economic Transformation in achieving Ugandan National Development Plan and Vision 2040. It provides an interface between sector actors and other stakeholders for knowledge exchange, dialoguing, learning for improvement of Uganda's water and environment resources.

UWEWK2020, was scheduled to take place at end of March2020 at the Water Resources Institute in Entebbe but was postponed due to COVID-19. The aim of UWEWK 2020 is to explore "The role of water and environment resources in the achievement of the third National Development Plan (NDP III) goal and targets. Additionally, it will assess the centrality of water and environment resources in increasing sustainable household incomes and improved quality of life of the population and achievement of "Sustainable Industrialization for Inclusive-growth, Employment and Wealth Creation".

The event is organised under the theme: "water and environment resources for inclusivegrowth, employment and wealth creation". Three sub-themes are proposed to further elaborate on water and environment issues and challenges. These include:

- a) Water and Environment Security for Inclusive-growth This sub-theme is to explore the impacts of degradation of water, environment and natural resources on achievement of NDPIII targets and what needs to be done to ensure water and environmental security for inclusive growth. It intends to discuss the governance challenges associated with environment and natural resources management and transboundary water cooperation and present possible solutions to promote sound water, environment and natural resources management and prevent transboundary conflicts. This subtheme will also look into ensuring coordinated and sustainable national infrastructure projects considering that Uganda's economy relies almost entirely on the stock of water, environmental and natural resources to produce goods and deliver services. It will address the new approaches to achieving Water-Food-Energy nexus as well as approaches for addressing water scarcity and through non-conventional water and environment resources management approaches.
- b) Water and Environment for Employment and Wealth Creation This sub-theme is to discuss how societies should govern and develop their water and environment resources for employment and wealth creation and improving people's livelihood. Accessibility to safe and clean water is, for many people, a matter of daily survival, or

can help to break the vicious circle of poverty. Similarly, the effectiveness of wastewater treatment, sanitation improvement and disposal can have far reaching effects on survival and meaningful productivity. Improving natural resources governance and development is therefore essential to alleviating global poverty. The sub-theme will also give focus to innovative solutions for more efficient and productive development and management of water, environment and natural resources; case studies of integrated water development and management schemes that account for the water demand and supply as well as land and the environment. It will also explore opportunities for increasing incomes and employment through sustainable use and value addition to water, environment and natural resources.

c) Climate change and achievement of NDP III goals - This sub-theme is to explore the impacts of climate change, both positive and negative, on the social and economic sectors of Uganda, and explore existing and potential innovative climate change mitigation and adaptation options that are key in supporting the achievement of various NDP3 goals and targets and specifically employment and wealth creation, and general economic growth.

Overall Goal

The overall goal of UWEWK 2020 is: improved understanding of the importance of sustainable management and development of water and environment resources in Sustainable Industrialization for Inclusive-growth, Employment and Wealth Creation.

Objectives

The objectives of UWEWK 2020 are to:

- a. Highlight how water and environment contribution to Sustainable Industrialization for Inclusive-growth, Employment and Wealth Creation
- b. Focus on the inseparable link between security of water, energy, food and ecosystems which is critical to underpin Inclusive-growth, Employment and Wealth Creation and hence achievement of the third National Development Plan (NDP3).
- c. Deliberate on the role of effective water and environment management and governance in ensuring coordinated and sustainable national infrastructure projects;_

UWEWK 2020 WELCOMES YOU National Organizing Committee



Dr Florence Grace Adongo Director of Water Resources Management Ministry of Water and Environment CHAIRPERSON, NATIONAL ORGANIZING COMMITTEE



Dr. Callist Tindimugaya Commissioner, Water Resource Planning and Regulation Ministry of Water and Environment **CHAIRPERSON, TECHNICAL COMMITTEE**

MEMBERS OF THE ORGANIZING COMM	MEMBERS OF THE ORGANIZING COMMITTEE						
NAMES	ORGANIZATION						
Ms Flavia Waduwa	Ministry of Water and Environment						
Dr. Nicholas Kiggundu	Makerere University						
Rosemirta Birungi	AFID						
Eng . Daniel Opwanya	PVT						
Jane Nabuunya Mulumba	IRC						
Margaret Mwebesa Athieno	MWE-Directorate of Environmental Affairs						
Joseph Epitu	Ministry of Water and Environment						
Eng. Sonko Kiwanuka	WSS Services						
Dr Yazdi Bamutaze	Makerere University						
Dr. Ronald Semyalo	Makerere University						
Dr Lawrence Orikiriza	Makerere University						
Dr. Patrick Musinguzi	Makerere University						
Barbara Ntambirweki	ACODE						
Lydia Ngozi	GIZ-Uganda						
Spera Atuhairwe	Life Water International						
Edwin Muhumuza	Youth Go Green						
Ms. Mary Namukose	GIZ-Uganda						
John Okiira	ACODE						
Faith Kanyago	UMI						

MEMBERS OF THE ORGANIZING COMMITTEE					
NAMES	ORGANIZATION				
Cate Zziwa Nimanya	Water for People				
Sophie Kutegeka	IUCN				
Ms Andama Carolyn	DFCU				
Ms. Marjorie Mugyenyi	DDCL				
Ms Grace Katuramu Gwendolyn Kyoburungi	DDCL MWE- Water Resources Institute				
Roland Biryahwaho	Water Aid Uganda				
Chrystelle Kyatengegwa	MWE- Water Resources Planning and Regulation				
Solomon Kyeyune	Free Lance Consultant				
Stacey Natukunda	MWE- Water Resources Planning and Regulation				
Francis Xavier Kizito	MWE- Water Resources Institute				
Atwiine Mathew Kariisa	Ministry of Water and Environment				
Orijabo Albert	MWE- Water Resources Planning and Regulation				
Waiswa Nelson	MWE- Water Resources Planning and Regulation				
Irene Kambedha	MWE- Directorate of Environmental Affairs				
Deus Kirunda	Ministry of Water and Environment				
Emmanuel Jumba	Ministry of Water and Environment				
Sowed Sewagudde	Ministry of Water and Environment				
Anthelem Iragena	MWE- Water Resources Planning and Regulation				
Nathan Mununuzi	MWE- Directorate of Environmental Affairs				
Geoffrey Ayeni	Uganda Walkers Association				
William Mawenu	MWE- Directorate of Environmental Affairs				
Dr Acan Santa Grace-Walkers	Uganda Walkers Association				
Lillian Nkwenge	Uganda National Meteorological Authority				
Namuyiga Winnie	Water Resources Institute				
Gerald Babi	MWE- Water Resources Planning and Regulation				
Athamah Kajimu	MWE- Water Resources Planning and RegulationMWE- Water Resources Planning and Regulation				
Maimunah Kasujja	Water Resources Institute				
Rachel Atuhairwe	Water Resources Institute				
Joshua Mugabi Nyombi					
Rehema Aanyu	UWASNET				

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MEMBERS OF THE ORGANIZING COMMITTEE					
NAMES	ORGANIZATION				
Nancy Nahabbo	MWE- Water Resources Planning and Regulation				
Atuhaire Brenda	MWE- Water Resources Planning and Regulation				
Kansiime Charity	MWE- Water Resources Planning and Regulation				
Namurebire Yosam	MWE-ITWA				
Bulyaba Hanifa	Ministry of Water and Environment				
Bogere Muzamiru	MWE- ITWA				
Nalumu Jovan	Ministry of Water and Environment				

CONTACT US

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Website:www.mwe.go.ug

For more details please refer to the Program below.

GUESTS at UWEWK2020 Opening Ceremony on 13 September 2020 Time 14:00 – 17:00



H.E. Yoweri Kaguta Museveni **President Republic of Uganda**



Hon. Sam Cheptoris Minister Ministry of Water and Environment

KEY NOTE SPEAKERS AND PANELISTS

SPEAKERS: Dialogue session on 13 September 2020 - Water and Environment Resources for inclusive-growth, employment and wealth creation, Time 2p.m. – 5 p.m.

KEY NOTE SPEAKER



Dr Fred Muhumuza Policy Development Analyst and Lecturer, School of Economics, Makerere and Kyambogo Univesities



Hon. Kefa Kiwanuka Chairperson, Natural Resources Committee, Parliament of Uganda

PANELISTS



Hon. Elly Karuhanga Chairman, Private Sector Foundation



Ms. Elsie G. Attafuah Resident Representative, United Nations Development Program in Uganda



Prof. Pamela Mbabazi Chairperson, National Planning Authority



Godber Tumushabe Associate Director Great Lakes Institute for Strategic Studies



Alfred Okot Okidi Permanent Secretary Ministry of Water and Environment

SPEAKERS: Dialogue session on 14 September 2020: Water and Environment Security for inclusive-growth, Time 10:00 to 12:00p.m.

KEY NOTE SPEAKER



Ronald Kaggwa Manager- Production, Trade and Tourism Planning - National Planning Authority

Querido Antonio Louis Ferreira FAO Country Representative, Uganda

David Duli Country Director, WWF Uganda Country Office

PANELISTS



Jane Nabunnya Mulumba Country Director IRC International Water and Sanitation Centre – Uganda



Mathias Katamba Managing Director, DFCU Bank



Collins Oloya Director, Directorate of Environment Affairs, MWE

SPEAKERS: Dialogue session on 15 September 2020: Water and Environment for Employment and Wealth Creation, Time 10:00-12:00p.m.



Prof. Alex Ariho Chief Executive Officer African Agribusiness Incubators Network

KEY NOTE SPEAKER



James Ebitu Permanent Secretary Ministry of Gender, Labour and Social Development

PANELISTS



Sophie Kutegeka Country Director, IUCN



Eng Joseph Oriono Eyatu Director of Water Development, Ministry of Water and Environment



Cate Zziwa Nimanya Country Director, Water for People Uganda



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Dr Tom Okurut Executive Director, NEMA

SPEAKERS: Dialogue session on 16 September 2020: Climate change and NDP III, Time 10:00 – 12:00p.m.



Dr Willy Kakuru Consultant, Food and Agricultural Organization

KEY NOTE SPEAKER



Edwin Muhumuza Founder and CEO Youth Go Green



Marion Iceduna Consortium Manager ECO-DRR, CARE

PANELISTS



Dr Florence Grace Adongo Director of Water Resources Management, Ministry of Water and Environment



Hon. Biyika Lawrence Songa Chairperson, Parliamentary Committee on climate change Parliament of Uganda



Edith Kateme Kasajja Former Deputy Executive Director, NPA and Member of Uganda CC Negotiating Team

SPEAKERS: UWEWK2020 wrap up session on 18 September 2020



Dr.Joseph Muvawala Executive Director, National Planning Authority

PANELISTS



Maris Wanyera Director- Cash and Debt Policy, Ministry of Finance



Patrick Kahangire Retired Director of Water Development and Presidential Adviser on Water issues



Dr Eng Siver Mugisha Managing Director, National Water and Sewerage Corporation



Dr Arthur Bainomugisha Executive Director, ACODE



Jane Mselle Sembuche Country Director, WaterAid

PROGRAMME FOR THE UGANDA WATER AND ENVIRONMENT WEEK 2020 (UWEWK2020) Theme: Water and Environment Resources for inclusive-growth employment and Wealth Creation

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DAY	TIME SLOT	ACTIVITY								
DAT	TIME SLOT									
		OPENING CEREMONY: @ MWE Auditoriun and Live-stream on L	JBC & NBS TVS, and ZOOM							
	14:00 - 14:05	Welcome and Introduction to the UWEWK2020								
2020	14:05 - 14:10	Welcome Remarks, Chair National Organizing Committee								
er :	14:10 - 14:15	Welcome Remarks, Minister of Water and Environment Opening Speech by H.E the President of the Republic of Uganda - <u>Yoweri Kaguta Museveni</u>								
September	14:15 - 14:30	Key Note Speaker: Dr Fred Muhumuza, Policy Development								
	14:30 - 14:50	Key Note Presentation: "Water and Environment Resources for inclusive-growth, employment and wealth creation" Analyst and Lecturer, Makerere University								
Sunday 13th	14:50 - 16:30	Panel Discussion (Prof. Dr Pamela Mbabazi, Chairperson National Planning Authority; Hon. Kefa Kiwanuka, Chairperson Natural Resources Committee of Parliament; Mr. Alfred Okot Okidi- Permanent Secretary, MWE; Ms. Elsie G. Attafuah -UNDP Resisdent Representative for Uganda; Hon. Elly Karuhanga, Chairman, Private Sector Foundation; Mr. Godber Tumushabe - Associate Director, Great Lakes Institute for Strategic Studies) Moderator: Mr. Maurice Mugisha, UBC								
	16:30 - 17:00	Plenary Discussion								
	END OF DAY OI	VE								
		Sub-theme No. I - Water and Environment Security for inclu	isive- growth - (ZOOM)							
2020	10:00 - 10:10 Key Note Presentation: "Water and Environment Security for inclusive-growth" Key Note Speaker: Mr. Ronald Kaggwa, Manager- National Planning Authority									
September 2020	10:10 - 11:40	Panel Discussion - Mr Querido Antonio Louis Ferreira, FAO Country Representative; Mr. Mathias Katamba - Nabunnya Mulumba- Country Director, IRC; Mr. Collins Oloya, Director, DEA; Mr. David Duli, Country Direct		Moderator: Sonko Kiwanuka - Director WSS Services (U)						
14th S	11:40 - 12:00	Panel and Plenary - Virtual Online -Discussion and Feedback		Ltd.						
	LUNCH BREAK									
Monday		Parallel Sessions (ZOOM)								
W	14:-00 - 16:00	Session 1: Water and Environment Security for inclusive-growth - Policy, Session 2: Trainin	g on Sustainable Development Goal No. 6 ideo, presentation, and Plenary Discussio							
	END OF DAY TV	vo								
		Sub-theme No. II - Water and Environment for Employment and	d Wealth Creation (ZOOM)							
er 2020	10:00 - 10:10	Key Note Presentation: "Water and Environment for Employment and Wealth Creation"	Key Note Speaker: Prof. Alex Ariho, CEO, Network							
September	10:10 - 11:40	Panel Discussion: Mr. James Ebitu - Permanent Secretary, Gender, Labour and Social Development; Eng Joss Executive Director, NEMA; Ms. Cate Zziwa Nimanya - Country Director, Water for People, and Ms. Sophie K		Moderator: Dr Callist Tindimugaya, Commissioner, MWE						
	11:40 - 12:00	Panel and Plenary - Virtual Online -Discussion and Feedback								
Tuesday 15th	LUNCH BREAK									
esd		Parallel Sessions (ZOOM)								
Ţ	14:-00 - 16:00	Session 3: Water and Environment for Employment and Wealth Creation - Session 4: Trainin Policy, Practice & Scientific Papers Presentation, refer to annex 1 refer to annex 3	g on Turning Waste to wealth: a video, p	resentation, and Plenary Discussion,						
	END OF DAY TH	IREE								
		Sub-theme No. III- Climate Change and achievement of National Deve	elopment Plan III Goals - (ZOOM)							
0		Ŭ	Key Note Speaker: Dr Willy Kakuru- Cons	ultant, Food and Agricultural						
202	10:00 - 10:10	Key Note Presentation: "Climate Change and National Development Plan III -"	Organization							
September 2020	10:10 - 11:40	Panel Discussion: Hon Lawrence Biyika Songa, Chairperson-Parliamentary Committee on Climate Change; D Water Resources Management, MWE; Ms. Edith Kateme Kasajja, Former Deputy Executive Director, NPA an Uganda; Mr. Edwin Muhumuza - Founder and CEO Youth Go Green; Ms. Marion Iceduna, Consortium Mana	d Member of Climate Change Negotiating T							
16th Sept	11:40 - 12:00	Panel and Plenary - Virtual Online -Discussion and Feedback								
	LUNCH BREAK									
lesd		Parallel Sessions (ZOOM)								
Wednesday	14:-00 - 16:00	Session 5: Climate Change and achievement of National Development Plan III Goals - Policy, Practice & Scientific Papers Presentation, refer to annex 1		ral resources based enterprises - by rideo, presentation, and Plenary 3						
	END OF DAY FO	UIR								
~		Water Security Conference (ZOOM)								
er 2020	10:00 - 12:00	Kampala Water Security Action and Investment plan conference sponsored by GIZ: refer to annex 4		Moderator: Maurice						
September	12:00 - 12:30	Followed by a Plenary - Virtual Online -Discussion and Feedback		Mugisha, UBC						
	LUNCH BREAK									
		Parallel Sessions (ZOOM)								
Thursday 17th	14:-00 - 16:00			<u>LO</u> : Training - An Introduction to nt Based Implementation of IWRM iH, refer to annex 3						
F	END OF DAY FI									
	END OF DAT FI									

		Parallel Sessions (ZOOM)				
10:00 - 12:00	Session 11: Water and Environment Security for inclusive-growth - Policy, Practice & Scientific Papers Presentation - Part III, refer to annex 1	Session 12: Side Event -Adapting to impacts of Climate Change through a Catchment based IWRM approach - Experiences from EURECCCA Project, refer to annex 5	Session 13: Training on approaches to climate change mitigation and adaptation: a video, presentation, and Plenary Discussion. <i>refer to Annext 3</i>			
LUNCH BREAK						
UWEWK2020 WRAP UP & CLOSING CEREMONY @ MWE Auditoriun and Live-stream on UBC & NBS TVs. and ZOOM						
14:00 - 14:05 14:05 - 14:15	о , , , , , , , , , , , , , , , , , , ,					
Panel Discussion: Dr Joseph Muvawala - Executive Director, National Planning Authority; Mr.Patrick Kahangire, Retired Director of Water Moderator: Maurice Mugisha (UBC) 14:15 - 15:30 Development and Presidential Adviser on Water issues; Ms. Maris Wanyera, Director: Cash and Debt Policy, Ministry of Finance; Dr Eng. Moderator: Maurice Mugisha (UBC) 14:15 - 15:30 Diveronment and Presidential Adviser on Water issues; Ms. Maris Wanyera, Director: Cash and Debt Policy, Ministry of Finance; Dr Eng. Moderator: Maurice Mugisha (UBC) 14:15 - 15:30 Diveronment and Presidential Adviser on Water issues; Ms. Maris Wanyera, Director: Cash and Debt Policy, Ministry of Finance; Dr Eng. Moderator: Maurice Mugisha (UBC) 14:15 - 15:30 Diveronment and Presidential Adviser on Water issues; Ms. Jane Mselle Sembuche - Country Director, WaterAid; Dr Arthur Bainomugisha - Executive Moderator: Mugisha (UBC) Director, ACODE Director, ACODE Market M						
15:30 - 15:35	Remarks by Minister of State (Water)					
15:35 - 15:45	51					
5:45 - 16:00 Closing Speech by Guest of Honour: Rt Hon. Dr. Ruhakana Rugunda, Prime Minister of the Republic of Uganda END OF UWEWK 2020 CONFERENCE						

ANNEXES

Annex 1: Paper Presentation Time table (ZOOM) – presentation order and program may change without prior notice

Session 1:

S/No.	Date of presentatio n	Time of presentati on	Title of Abstract	Theme for UWEWK 2020	Category of applied research	Author's Name
1	7	Five	Reliability of Rural Water: a Fundamental for Inclusive Growth	Sub-t		Elibabeth Buhungiro
2	Monday	(05) N	Assessing the Water Sanitation and Hygiene facilities using GIS in the pro-poor urban in Kampala	Sub-theme	Policy	Andrew Ssendyowa
3	lay 14th	Five (05) Minutes each Presentation	Improving Dam Surveillance and monitoring in countries with non- existent legal and regulatory dam safety frameworks – A Case of Isimba Hydropower Plant (Uganda)			G. Rwakafunjo
4	th Se	ach F	Catchment degradation; a threat to Valley tanks: Case Study: Lokok Catchment, Karamoja	ter a		Kajimu Athamah
5	de	ře	Ecosystem depletion attributes and cubing it in Maziba catchment	nd		Gilbert Tusiime
6	September	senta	Effect of Livestock Production Systems On Physio-Chemical Properties of Water in Mpigi District	Envi		Reuben Kawagga
7	be	tio	The Climate Change Discourse: Where is the Media?	ī		Rebecca Nabatanzi
8	r 20;	1 and	Water and Environmental perspectives for refugee settlement: the case of Nyumanzi camp, Uganda	ımer		Gladys Acaya
9	2020 between	55 minu	Integrating Water Sanitation and Hygiene in school development plans; Experiences, lessons and recommendations based on the five schools in Kampala.	nt Secur	Practice	C. Kizito
10		tes of P	Integrating Technology-Driven Solutions to Improve The Production and Utilization of Weather Products and Services in Uganda	rity for	tice	Georgina Campbell Flatter
11	10:00-12:00	55 minutes of Plenary Discussion	Groundwater resources management for sustainable socio- economic development in Uganda: status, challenges and prospects	1: Water and Environment Security for Inclusive -growth		Callist Tindimugaya
12	12:00	iscussic	Sustainability of water and hygiene in rural healthcare facilities in western Uganda: Preliminary findings from interviews with stakeholders and a scoping review of the literature.	re -grov		Jenna Davis
13		'n	Justification for monitoring of groundwater levels in town water supplies in Uganda- a case of Albert Nile Catchment	vth		Johnson Pule

Session 3

S/No.	Date of presentatio n	Time of presentati on	Title of Abstract	Theme for UWEWK 2020	Category of applied research	Author's Name
14			Uganda to pay high price for tampering with environment. A Case study, Rwizi catchment, Mbarara Municipality	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Policy	Gilbert Tusiime
15			Assessing the water footprint of irrigated rice production for Doho rice irrigation scheme, Butalejja district	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Policy	Naula Catherine
16	겁	Five ((Could the Health-Energy-Water-Agriculture Nexus be the Solution for improving African livelihoods?	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Policy	Patrick Musinguzi
17	esday	15) Minut	Better Livelihood Opportunities for Catchment Management in Maziba Sub Catchment, Kagera Catchment	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Practice	Gilbert Tusiime
18	15th \$	Five (05) Minutes each Presentation and	Challenges and opportunities for promoting private sector investment in tree seedling production in Uganda	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Practice	Dennis B Mujuni
19	Septer	Present	Citizens' perceptions on water, sanitation and hygiene service delivery impact on associated businesses and the water and environmental management for inclusive growth	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Practice	Andrew Tebandeke
20	nber 2	lation an	Developing Shea value chain for Wealth creation in Aswa catchment, northern Uganda	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Practice	Sophie Kutegeka
21	020 be	55	The relevance of WASH community initiatives in boosting livelihoo	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Practice	Shafiq Kakeeto
22	etweer	nutes of	The Role of Pollution Control Task Force (PTF) in Improving Environmental Compliance -A case study of Industries in Kampala City, Uganda	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Practice	Stacey Natunkunda
23	ח 10:0	Plenary	Moving Sanitation in Rural Growth Centres (RGCs) - A Business Opp	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Practice	Stephen Alege
24	Tuesday 15th September 2020 between 10:00-12:00	minutes of Plenary Discussion	Trace metal pollution in the surface water and bioaccumulation in the Brycinus sadleri (Sadleri robber) and Barbus altianalis (Rippon barbel) fish species from River Rwizi in Western Uganda; the risks to both human health and economic development.	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Scientific	Anthony Basooma
25			Situation of Groundwater Resources in Urban Areas of Uganda-The Case of Kampala City	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Scientific	Julius Aheebwa
26			Safe water, Wealth and Household income among homes that harvest rainwater	Sub-theme 2: Water and Environment for Employment and Wealth Creation	Scientific	David Baguma

Session 5.

S/No.	Date of presentatio n	Time of presentati on	Title of Abstract	Theme for UWEWK 2020	Category of applied research	Author's Name
27	Wednesday	Fiv	What is the contribution of sustainable biomass production and utilization towards achievement of Environment and Natural Resources and Sustainable Energy Programs National Development Plan III (2020/21-2024/25) Targets	Sub-theme 3: Climate Change and acheivements of NDP III goals	Policy	Arafa Kamoga
28	lesd	05) MI	Excessive deforestation in Uganda	Sub-theme 3: Climate Change and acheivements of NDP III goals	Policy	Simon Peter Okello
29	-	inutes	Nodding Syndrome illness infections in northern Uganda	Sub-theme 3: Climate Change and acheivements of NDP III goals	Policy	Simon Peter Okello
30	6th Se	each	Examination of use of agro-ecologically based management strategies for resiliency to climate disasters as an approach to achievement of NDP III	Sub-theme 3: Climate Change and acheivements of NDP III goals	Practice	Nakayemba Allen
31	ptem 12:	resen Disc	Technology Needs Assessment for Climate Change Adaptation in the Forestry Sector in Uganda.	Sub-theme 3: Climate Change and acheivements of NDP III goals	Practice	Joshua Zake
32	September 12:00	Presentation and Discussion	Farmers' Adaptation to Climate Variability Using Mobile Phones A Case of Kasangombe Sub-County, Nakaseke District, Uganda	Sub-theme 3: Climate Change and acheivements of NDP III goals	Practice	Rashid Lukwago
33	r 2020		Using the Impact based forecasting methodology (IBF) to reduce anticipated risks	Sub-theme 3: Climate Change and acheivements of NDP III goals	Practice	Irene Amuron
34		65 mi	National-Scale impact-based forecasting of flood risk in Uganda (NIMFRU)	Sub-theme 3: Climate Change and acheivements of NDP III goals	Practice	Tumusiime D Moses
35	between	tes of	Drought Assessment (1987-2017) And Adaptive Capacity of Households to Water Scarcity in Kasali Sub-County, Kyotera District, Uganda	Sub-theme 3: Climate Change and acheivements of NDP III goals	Scientific	Joseph Mukasa
36	10:00 ו	Plenary	Low Flow Analysis in Lake Albert, Edward and Victoria Basins	Sub-theme 3: Climate Change and acheivements of NDP III goals	Scientific	Nanyunja Sylvia Ndahura
37	00-		Comparative Suitability of the Global Hydrological Model GLOFAS Against a Catchment-Based Model to Simulate and Predict Floods in Uganda	Sub-theme 3: Climate Change and acheivements of NDP III goals	Scientific	Mulangwa Douglas

Session 8.

S/No.	Date of presentatio n	Time of presentati on	Title of Abstract	Theme for UWEWK 2020	Category of applied research	Author's Name
38			Integrated Environmental Management Principles and Application: Case of NWSC			Innocent Twesigye
39			The role of Watershed Partners in averting impacts of environmental degradation and poor water quality supply at River Mpanga Catchment	s		Lydia Biira
40	Thur	ive (05)	Enhancing waterborne toilets to reduce water usage in schools: Experience from Kampala	ub-the n		Jude Byansi Zziwa
41	sday 1	Minutes	Gendering The Design, Planning, Implementation and Operation of Sanitation-Hygiene Programs Under RWSSP in Karamoja	ne 1: W		Prossy Nambi
42	7th S∉	each Pr	Lessons from the WASH Infrastructure - Age analysis in Kabarole District, Rwenzori Region.	/aer an	Practice	Florence Anobe
43	pteml	esentati	Setting A Foundation for Citywide Inclusive Sanitation, Kampala City	d Envir	tice	Bernadette Kwebiiha
44	ber 203	on and 5	The Water Security Action and Investment Plan for Greater Kampala: Tools and approaches to promote integrated planning for Water Security at the metropolitan scale	onment		Lydia Ngonzi
45	20 bet	5 minut	Water Security Threats Facing Greater Kampala: Current and Future Trends and Need for Transformative Institutions	Securi		Lydia Ngonzi
46	ween '	es of Ple	Gender Equity in Agroforestry Resource Management in Elgon Regi	ty for l		Peter Fuuna
47	Thursday 17th September 2020 between 10:00-12:00	~	Assessment of the Faecal Sludge Management Services Delivery in Mbarara Municipality, Uganda	Sub-the me 1: Waer and Environment Security for Inclusive-growth		Charles B. Niwagaba
48	12:00	cussion	Knowledge, Attitudes and Practices Towards Household Treatment of Piped Water Among Rural Households in Busoro Parish- Busoro Sub-County, Kabarole District, Uganda	:-growt	Scientific	Otto Businge
49		-	Assessing the Impact of Land Use and Land Cover Changes on the Stream Flows Case Study-Upper River Rwizi Catchment	3	Scientific	Pamela Musiimeta
50			Impacts of Climate Variability and Land Use Changes On Streamflow in Upper Rwizi Sub Catchment, Uganda			Arinaitwe Kimosho Emmanuel

Session 11

S/No.	Date of presentatio n	Time of presentati on	Title of Abstract	Theme for UWEWK 2020	Category of applied research	Author's Name
51		Fiv	Role of Uganda's National Hydrological Service in Inclusive Growth	Sub-		David Kataratambi
52	Friday	e (05)	The potential of rainwater harvesting for domestic and irrigation of selected crops in Mbale Distrct, Uganda	Sub-theme		Joash Bwambale
53	lay 18th	Five (05) Minutes each Presentation and 55	Molecular genetic diversity and differentiation of Nile tilapia (Oreochromis niloticus, L 1758) in East African natural and stocked populations			Papius Dias Tibihika
54		each Pr	The Right of Use and Economics of Irrigation Water in Uganda- A Comparative Analysis of Small Scale Irrigation Schemes in Eastern, Northern and Western Uganda	ater an		Ogwal Harold
55	September	esent	Bacteriological Quality of Potable Borehole Water In a Peri-urban Area – A Case Study from Iriiri, Napak District, Uganda	d En		S. Kizza-Nkambwe
56	ber	lation	Assessment of Ground Water Potential in The Upper Nile Water Management Zone	viron	Scie	Daniel Samson Okurut
57	2020	and	A collaborative resource-recovery game to enhance urban sanitation planning	men	Scientific	Charles B. Niwagaba
58) bet		The impact of abstraction on the quality and quantity of groundwater in Kampala. A case of Kawempe division	t Sec	C	Thaddeus Matovu
59	between	nutes	Developing and Validating a Landsat Model to Argument In-situ Monitoring of Fresh Water Lakes in Uganda	urity		Esther Namakula
60	n 10:00-12:00	minutes of Plenary Discussion	Impact of irrigated and non-irrigated cropping systems on soil physio-chemical properties in a small scale irrigation farming system in Eastern Uganda	1: Water and Environment Security for Inclusive -growth		Issa Kaduyu
61	0-12	ry Dis	Spatial Vulnerability Assessment of River Mitano Catchment to Degradation in SW Uganda-Congo Boarder	lusive		Patrick Musinguzi
62	2:00	scuss	Massive soil loss due to erosion beyond tolerable limits and an environment threat in the highlands of Uganda	e -gro		Patrick Musinguzi
63		ion	Transforming lives of the rural vulnerable communities through the provision of safe, sustainable domestic water supply and sanitation services	owth		Azzora David

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Annex 2: Career Talk (ZOOM)

Session 6 Program – PROGRAMME: 2nd Career Talk for YOUNG WATER AND ENVIRONMENT PROFESSIONALS

Wednesday September 16, 2020 at 1:50- 4:30 p.m. East Africa Standard Time (EAST)

Topic	Proposed Panellist	Main topics to cover	Time
Welcome remarks	Moderator-Kemi Ruyondo	Welcome participants, ask participants to check in the chat, where they are joining in from, what are their expectations	15 minutes (<u>Starts from</u> <u>1:50 pm</u>)
Recap from the last career talk-key lessons moving forward	Mary Namukose	History of career talk, Key messages from last year and the link to career talk at UWEWK 2020, Objectives of the career talk	10 minutes
Recap	Moderator-Kemi	Samples and reads some of the expectations of participants, Introduces the next presenter	5 minutes
Personal Story 1- Career journey from a senior professional	Senior Professional: Dr. Flower Msuya (AWARD Alumni from Tanzania)	Career development from entry to retirement, Challenges and How you navigated them? Advice to YWEP	20 minutes
Personal Story 2- Career journey from a YWP	Emerging Water and Environment Professional: Shafiq Kakeeto from SVN Uganda	Journey from University up to date, Finding that job- the challenges encountered, Impact of COVID to you as a YWEP- Take away for the YWEP	15 minutes
Q &A to panellist	ts- moderated by Faith		10 minutes
Career Purpose -Road Map	Allan Bukusi: Leadership Coach MDI- Nairobi, Kenya	Career roadmap- why it's important? Prepare for exit the day you get a job- brief remarks on retirement	20 minutes
Q &A to panellist	ts- moderated by Mary		10 minutes
Ice breaker	Chat Question by Kemi	What comes to your mind when someone mentions: Mentorship Reads answers from the polls and introduces next speaker	5 minutes
Role of mentorship in professional development	Dr. Sarah Mubiru, Kampala Uganda	Role/benefits of mentorship, Who is a mentor, mentee and their roles and responsibilities? Where can you find a mentor? Dos and Don'ts	20 minutes
Q &A to panellist	ts- Moderated by Kemi		10 minutes
Closure		Group Photo: Participants turn on cameras, thank you message,	10 minutes
TOTAL TIME			150 Minutes

Annex 3: Training Concept Notes (ZOOM)

Session 2 - Training on SDG 6 - Monday September 14, 2020 at 2:00- 5:00 pm EAST.

BACKGROUND

Water and sanitation, as absolute necessities for people, planet and prosperity, are at the very core of sustainable development. Safe drinking water and adequate sanitation and good hygiene are pillars of human health and well-being. The 2030 Agenda for Sustainable Development includes a dedicated goal on Water and Sanitation (SDG 6) that sets out to "ensure availability and sustainable management of water and sanitation for all." SDG 6 expands the MDG focus on drinking Water and Sanitation to cover the entire water cycle, including the management of water, wastewater and ecosystem resources. SDG 6 does not only have strong linkages to all of the other SDGs, it also underpins them; therefore, meeting SDG 6 would go a long way towards achieving much of the 2030 Agenda. It has however been noted that there is still limited understanding and capacity by the various stakeholders on the meaning of SDG 6 and its various indicators and targets and how to collect and interpret data.

Purpose the training

Therefore the proposed training aims to enhance the understanding of SDG 6 and it monitoring framework, the scope and meaning of the various indicators and how to collect and interpret the data in Uganda's context.

Target Beneficiaries

This training targets water, sanitation and hygiene sector stakeholders in including those that are engaged in policy formulation and those that are implementing WASH related interventions. It also targets the other line sectors of energy, agriculture, health and education etc.

Proposed Approach and training methodology

Considering the time allocation of 2 – 3 hours, the training shall focus on the following

Introduction to the SDG 6 training

- Meet and get know the participants and facilitators
- Expectations and Objectives

Overview of the SDG framework

- Linkage between SDG 6 and other goals
- Water and sanitation contribution to sustainable development
- Monitoring water and sanitation in the 2030 Agenda at global level

Implementation of the SDGs with special focus on SDG 6 in Uganda

- SDG 6 indicators, targets and monitoring methodologies
- Overview of SDG 6.1 SDG 6.6 indicators, targets and monitoring methodologies
- Data collection, analysis and interpretation base on case studies on 6.3 and 6.6 indicators

Training schedule

Activities	Facilitator	Time	(EAST)
Activities	Facilitator	Start	End
Introduction to the Training	Solomon	14:00	14:20
Overview of SDG 6	Dr. Callist	14:20	14:50
Question and Answer		14:50	15:10
Implementation of SDGs (Goal six)	Rose Mirta	15:10	16:00
Data collection and Analysis (6.3)	Trinah K	16:00	16:25
Data collection and Analysis (6.6)	Carol N & Joseph E	16:25	16:45
Question and Answer and closure		16:45	17:00

Implementation

- The water resources institute shall spear head the training working with the thematic Teams and other resource persons.
- Training shall be modulated by Solomon. The facilitators shall be as shown in the training schedule.
- Training shall be delivered online on Zoom on Monday 14th September 2020. The facilitators shall convene at the MWE auditorium.

Session 4 - Applied Training: Turning Waste to Wealth– Tuesday September 15, 2020 at 2:00-4:00 pm EAST

Conveners: Water for People, GIZ and Kampala Capital City Authority

Title of the Applied Training: Turning Waste to Wealth

Description of Training Facilities and other logistics needed:

- ✓ Open space where black soldier flies and market waste can be displayed to participants showing the break done process of the waste by the flies.
- ✓ Open space where briquettes and compost can be displayed to participants
- ✓ A table to display the IEC materials/ tools
- \checkmark Chairs with social distancing and masks.

Profile of the Target Participants:

- ✓ Town council or Municipal officials
- ✓ District Officials (District Education officers, Community Development officers, District Health officers among others
- ✓ NGOs promoting Sanitation
- ✓ Ministry officials especially from MOEs, MWE- Public Health Specialists
- ✓ Other WASH practitioners

Prior knowledge or experie Basic knowledge in Sanitatio	-	Professional or educational requirements: None
Profile of the Facilitators	working on	Engineers with over 10 years of experience treatment and re-use options ntal Health professionals

Proposed Learning objectives of the Applied Training

- ✓ To gain knowledge on re-use options for faecal sludge (co-composting, briquettes and Bio toilets)
- ✓ To build capacity of participants on how to make faecal sludge briquettes, design and construct biotoilets and co-composting using black soldier flies)
- ✓ To gain understanding of the business models around FS briquetting and co-composting.

Description of the Applied Training: Content/Subject Matter:

Faecal Sludge Briquette: As part of the sanitation mission, disposal or repurposing of accumulating fecal sludge has become a concern. One option for addressing the problem is to convert some of it into a heating fuel in the form of eco-briquettes, sticks and honeycomb blocks.

Black Soldier Flies: One tonne of larva comprise of 1.5 million larva and need 3.5 tonnes of organic waste to feed. KCCA has created a farm producing half a ton of larva a week. The black solder fly larva has been found to thrive on organic market waste and 50% pit waste.

Method of facilitation:

02 Short video clips showcasing actual FS briquetting process including; production & packaging, and black soldier flies production process including waste break down process by the flies. In addition, actual demonstration of the production processes for both briquette and black soldier flies will be done in the open space at the ministry in the presence of a few participants. An interactive session of question and answer, as well as quizzes will be done. Most active participants will be motivated with prices.

✓ **Wrap-up module:** Summarize the learnings and follow up actions

Didactics:

- ✓ Lecture
- ✓ Debate/discussion
- ✓ Role play

✓ Exercise

✓ Demonstration ✓ Quiz

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Session 7 **Enhancing Natural Resources based entrepreneurship for wealth creation** – Wednesday September 16, 2020 at 2:00- 4:00 pm EAST

Conveners: Makerere University (CAES) & Ministry of Water and Environment

Team members: Dr. Patrick Musinguzi, Prof Twaha Basamba, Gwendolyn Zake, et. al.

Background

The Ministry of Water and Environment (MWE) in collaboration with key partners are organizing the 3rd Uganda Water and Environmental Week (UWEWK) at the Water Resources Institute (WRI) in Entebbe from Monday 23rd March to Friday 27th March 2020. The theme is 'Water and Environment Resources for Inclusive-Growth, Employment and Wealth Creation'. The UWEWK 2020 is now intrinsically linked to the (i) Sustainable Development Goals (SDGs); with the ultimate goal of achievement of economic goals such as reaching middle income status by 2020; and to (ii) the Uganda's National Development Plan III (NDP III), which focuses on achieving structural transformation through increased industrial activity, with emphasis on manufacturing, including value addition in agro-processing. As Uganda seeks to industrialize and meet national development goals, development and management of water and environment resources will be critical to ensuring steady growth of the manufacturing, agricultural and service sectors.

It is against this background the UWEWK 2020 has considered building capacity of interested practioners and related parties in natural resource based entrepreneurship for wealth creation. Uganda is well-endowed with a range of natural resources, critical for empowering entrepreneurs to utilize the resources optimally with right investment decisions.

Goal of the training:

The goal of the training is to build capacity in skills of entrepreneurs in various natural resources for better investment decisions and effective management

Module Objective

The main objective of this module is to empower entrepreneurs with skills in natural resource planning and investment so that they can use resources for wealth creation while maintaining the environment.

Learning Outcomes

At the end of this module, the trainees should be able to know;

- (i) Major natural resources for wealth creation in Uganda
- (ii) Attributes of successful entrepreneurship
- (iii) Natural resources, wealth creation and sustainable environment management
- (iv) The planning cycle
- (v) Organizing an on-farm/natural resource based business plan
- (vi) The successful natural resource based enterprises
- (vii) Management and monitoring of the natural resource enterprises



Module outline

- 1. Introduction to natural resources planning for wealth creation
- 2. Understanding different resources in Uganda
- 3. Factors to consider during natural resources planning
- 4. The planning cycle
- 5. Data sources for planning
- 6. Components of a land/resource use plan
- 7. Organizing a land based business plan
- 8. The successful natural resource based enterprises (Examples of successes in forestry, agriculture, water, etc)
- 9. Management and monitoring of the natural resource enterprises

Session 9: Training on Solar pumping and micro irrigation: a video, presentation, and Plenary Discussion, on Thursday September 17, 2020 at 2:00- 4:00 pm EAST

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	ning:			
Description of Training F ✓ Solar powered W	'acilities and other ater Supply for Irri	•		
Profile of the Target Part	11 /			
✓ WASH Practitione	-			
Prior knowledge or expe Some technical knowled supply systems.	-	Professional or educational requirements: None.		
Profile of the Facilitators EWB USAGuidelines for WASH sec				
		 Developed practical design, installation, and O&M manuals and training workshops 		
	its and application ble challenges design ts for inspection d	d Training s of solar powered water supply for irrigation uring installation		
 Understand benef Understand possil Basic principles of Critical componer Basic principles of Description of the Applie Content/Subject Matter:	its and applications ole challenges design its for inspection de Operation and Ma ed Training: ater Supply Applica	d Training s of solar powered water supply for irrigation uring installation aintenance		
 Understand possil Basic principles of Critical componer Basic principles of Description of the Applie Content/Subject Matter: Solar powered Wa Design Principles Installation inspect 	its and applications ole challenges design its for inspection de Operation and Ma ed Training: ater Supply Applica	d Training s of solar powered water supply for irrigation uring installation aintenance		

Session 10: An Introduction to Catchment Based Implementation of IWRM and WASH Thursday September 17, 2020 at 2:00- 4:00 pm EAST

Conveners: IRC International Water and Sanitation Centre Uganda

Title of the Applied Training: An Introduction to Catchment Based Implementation of IWRM and WASH

Description of Training Facilities and other logistics needed:

In this training there is need for breakout groups for discussion and the mentimeter for participants inputs.

A link to the 2hours 30 minutes training should be shared early for prior registration by the participant.

Profile of the Target Participants:

- \checkmark Academicians and students of public Health, Water and Environment, Development
- ✓ WASH CSOs and implementing partners of Government
- ✓ Catchment Based Management Committee members and supporters
- ✓ Water and Sanitation Developers
- ✓ Private sector Players in the WASH and Environment sectors
- ✓ Policy Makers and other interested professionals

Prior knowledge or experie	ence required:	Professional or educational requirements:
Open		Open
Profile of the Facilitators	Regulation- DWR ✓ Prof Emmanuel K	ssistant Commissioner for Policy and M/MWE asimbazi – WASH IWRM Specialist ve on IWRM Sector Working Group

Proposed Learning objectives of the Applied Training

✓ To Increase participants awareness, knowledge and skills in WASH & IWRM linkages

- ✓ To enlighten participants on the government policy priorities for WASH & IWRM
- $\checkmark~$ To show case and thus promote adoption of the catchment-based management approach to IWRM & WASH
- ✓ To share the impact story for Watershed Programme as a best of practice approach

Description of the Applied Training:

Content/Subject Matter:

The applied training will focus on policy and practice for WASH and IWRM linkages. A presentation on the government policy environment and priorities for WASH and IWRM will be followed up with a presentation and discussion of the Catchment Based Management Approach for Water Resources- experiences of AWMZ in the Rwenzori Region. The Training will also use case study of the Watershed programme on building capacity of CSOs, promoting learning and advocacy for inclusive WASH and IWRM.

The following are the topics for presentation

- ✓ Policy position of Government on WASH & IWRM
- ✓ Catchment Based Management approach to WASH & IWRM
- ✓ Watershed Impact Story in the Rwenzori Region- Learning, Capacity Development and Advocacy for WASH – IWRM

Participants will be involved in plenary discussion following guided questions. Mentimeter will be used for the participants to share key highlights

Didactics:

\checkmark	Lecture/Presentation	✓	Multimedia
\checkmark	Discussion	✓	Group work

Session 13: Approaches to Climate Change Adaptation and Mitigation on Friday September 18, 2020 at 10:00- 12:00 pm EAST

Title of the Applied Training: Approaches to Climate Change Adaptation and Mitigation		
 Description of Training Fac ✓ Projector ✓ Audio equipment 	ilities and other	logistics needed:
	onal ministries agers in private	, Departments and Authorities sector and civil society organizations; nd
Prior knowledge or experie Basic Science and Geography	nce required:	Professional or educational requirements: Diploma and Degree holders
 Profile of the Facilitators Trofile of the Facilitators Dr. Kennedy Igbokwe - Team Leader Climate Change Program, Food and Agriculture Organization of the United Nations Dr. Emmanuel Zziwa - Assistant Team Leader Climate Change Program, Food and Agriculture Organization of the United Nations 		

- Explained key concepts, terminologies and principles of climate change adaptation and mitigation
- ✓ Acquired increased knowledge and skill on the application of variety of tools and methods/ approaches for climate change adaptation planning, implementation, monitoring and evaluation

Description of the Applied Training:

Content/Subject Matter:

- ✓ The training aims to enhance capacity of different stakeholders to understand climate change science better and be able to explain the framework, tools and approaches for facilitating the planning, designing and implementation of climate change adaptation and mitigation projects. The following training sessions will be covered:
 - Basic Climate Change Science: Global warming, Greenhouse gases and consequences and Climate Change Scenarios
 - Responses to Climate Change Mitigation and Adaptation
 - Adaptation to Climate Change: Understanding the framework and application of tools and methods for CC adaptation planning, designing, implementation monitoring and evaluation
 - Mitigation to Climate Change: Understanding the framework and application of tools and methods for climate change mitigation planning, designing, implementation, monitoring and evaluation
 - o Action planning

Didactics:

✓ Lecture with participation
 ✓ videos
 ✓ Action planning

Annex 4: Water Security e- Conference, Thursday September 17, 2020 Time 10:00 to 12:00 (EAST)

THEME: WATER SECURITY FOR INCLUSIVE URBAN GROWTH

The national vision to transform Uganda's economy through industrialization is dependent on the country's capacity to strengthen fundamentals that drive socio-economic development, which include among others, urban development, land management, water and environment resources management, and innovation (GOU, 2013).

Water security has emerged as a primary sustainability challenge for urban areas at national and international level since it is a key determinant for security of other vital societal aspects including the economy, food, public health, and the environment and thus has a complex political spectrum that goes far beyond the traditional water sector. To achieve water security, there is need for policy makers (.gov), the private sector (.com) and civil society (.org) to create an environment which allows among other things, to enhance livelihoods of the urban poor who encroach on vital natural urban ecosystems, to mitigate and manage flood risk and damage, to efficiently use and manage surface and ground water resources, to reduce, treat and recycle waste and waste water, to protect and restore urban wetlands and forest ecosystems, and to make use of cross sector benefits arising from continued investment in water security.

The Ministry of Water and Environment, Kampala Capital City Authority, National Water and Sewerage Corporation, Uganda Manufacturers Association with support from the GIZ Natural Resource Stewardship (NatuReS) programme, will be hosting the Water Security E-Conference. The e-conference aims to bring together policy makers, the private sector, civil society, and academia to discuss the centrality of water security in achieving sustainable industrialization for inclusive urban growth, employment and wealth creation – NDP III and the role of collective planning and action in achieving water security for inclusive urban growth with a focus on Greater Kampala Metropolitan Area (GKMA). Greater Kampala Metropolitan Area has been earmarked as an economic engine to drive structural transformation of Uganda's economy to a competitive upper middle-income country. To achieve positive structural transformation, there is need to understand, project, plan and address water security threats likely to hinder growth and frustrate development efforts within and outside the Greater Kampala Metropolitan Area.

E-Conference Objectives

The e-conference aims to strengthen the dialogue between actors and bridge the gap between evidence, policy and action through dissemination of the findings of the Water Security Action and Investment Plan (WSAIP) for the Greater Kampala Metropolitan Area. Specific objectives of the conference are:

- 1. To disseminate evidence to support investment in water security for inclusive urban development.
- 2. To discuss the water security agenda for Greater Kampala and the need for targeted investment actions.
- 3. To highlight the significance of private sector engagement in realizing the water security agenda.

E-CONFERENCE SESSION PLAN

Time	Item	Responsibility	
9:30 am- 10:00am	Participants Log on		
10:00am- 10.10am	Welcome and Introduction to the e-conference	Moderator- Maurice Mugisha	
	Ice Breaker		
10.10am- 10.20am		Dorothy Kisaka Executive Director, KCCA)	
10.20am- 10.30am	Opening Remarks	Jordan Martindale, UK Foreign and Common Wealth Development Office	
10.30am- 10:40am		Mr. Alfred Okot Okidi Permanent Secretary, Ministry of Water and Environment	
10.40am- 10:55am	Keynote address Water Security and Urban Growth: Exploring the link between water security and inclusive urban growth, employment, and wealth creation.	Dr. Fred Muhumuza, Makerere University	
10.55am- 11.00am	Ice Breaker		
11.00am - 11.10am	 Introduction to the Water Security Action Plan (WSAIP) Overview of Water Security in GKMA 	Dr. Callist Tindimugaya (MWE)	
11.10am - 11.20am	 The Water Security Action Plan (WSAIP): Key findings Evidence for water security investments Investment options and implementation towards a water secure GKMA 	Anthelem Iragena (MWE) and Christopher Kanyesigye (NWSC)	
11.20am- 11.50 am	Interactive Question and Answer Session	Moderator	
Panel Discussion			
	What role can private sector play in achieving water security Chairman Uganda Manufacturers Association (UMA) Board		
	Stewardship approach in addressing water security in Lusaka, Zambia GIZ Zambia		
11.50 am- 12.20pm	Role of evidence and decision support tools in achieving water security Professor Ken Strzepek (IEc)	Moderator	
12.20pm- 12.30pm	Closing Remarks	Dr. Silver Mugisha Managing Director National Water and Sewerage Corporation	

Mode of delivery

• The water security e-conference will be held online via an easily accessible and usable platform. An access link will be shared to participants.

Participants

• Over 250 guests will be invited to e-conference. E-invitations with the access link will be shared via email. Guests from the Ministries, Departments and Line Agencies, private sector, civil society organizations, academia and development partners will be invited.

Annex 5: Session 12 - Side Event - Adapting to impacts of Climate Change through a Catchment based IWRM approach - Experiences from EURECCCA Project, Friday September 18, 2020 Time 10:00 to 12:00 (EAST)

Conveners: EURECCCA Project Team- Ministry of Water and Environment

Objectives of the session

- Share experiences of how a catchment based approach to the management of water and related resources is being used to improve resilience of the communities to impacts of climate change
- Highlight the role of stakeholders in the management of water and related resources
- Highlight key climate change adaptation actions that can improve resilience of the communities and improve their livelihoods and incomes

Introduction

The "Enhancing Resilience of Communities to Climate Change through Catchment Based Integrated Management of Water and Related Resources in Uganda" (EURECCCA) Project was designed to support Uganda's Government efforts to implement Integrated Water Resources Management (IWRM) through Catchment Management Planning and implementation to increase the resilience of communities to the risk of floods and landslides in Maziba, Aswa, and Awoja Catchments. The overall goal of the project is to increase the resilience of communities to floods and landslides in Awoja, Maziba, and Aswa Catchments through promoting catchment based integrated, equitable and sustainable management of water and related resources. The project is implemented through 3 components namely; Component 1-Establishing Frameworks for Climate Resilient Catchment Management in Awoja, Aswa, and Maziba catchments; Component 2 - Implementing concrete adaptation actions for resilient and sustained ecosystems, agricultural landscapes and diversification of livelihood systems and Component 3-Building capacities of extension services and institutions at sub-catchment, catchment and WMZ level to support local communities and knowledge management.

Experiences from the project

1. Multi sectoral Strategic guidance of the project

The project is guided by various committees including the Project Steering Committee whose role is to provide strategic guidance to the project, ensure that resources are efficiently utilized, the project objectives are achieved in an efficient and effective manner. This is achieved through regular meetings to review and approve annual and quarterly project work plans and budgets, review and approve quarterly and annual progress reports, Review and approve project technical reports, and review and approve any modifications to the project execution strategies and arrangements. The PSC is composed of a multi sectoral team from various government institutions eg. Ministry of Agriculture, Ministry of Finance, Planning and Economic Development, Civil Society, NEMA, Climate Change Department, Directorate of Environmental Affairs and Ministry of Trade, Industries and Cooperatives. As a result, the different agencies have supported the Directorate of Water Resources Management in successfully implementing the project. For example, Ministry of Trade has been instrumental in guiding the operationalisation of the use of the revolving fund through the Water and Environment Cooperatives, as an incentive for communities to start other Income Generating Activities which are friendly to the environment.

2. Formation of Catchment and sub catchment management structures

Three (3) fully functional Catchment management structures and 9 sub catchment management structures have been formed and supported to hold meetings as well as support the project activities. These committees consist of both political and technical leaders, representatives of the disabled, women (37%), youth and elderly at district and subcounty level. They have been mandated to oversee and participate in the implementation of activities within their catchments and as such, the project has witnessed successful mobilisation of community members during project execution resulting from their leaders being at the fore front of the implementation. Apart from the regular meetings that the committees hold, the capacity building initiatives by the project have placed these leaders in a good position to be ambassadors of CbIWRM in the various offices they hold.

3. Partnering with Other Government Institutions for sustainability

Three (3) demonstration centres to facilitate experience sharing regarding ecosystems conservation, control of floods and landslides and Alternative Income Generating Activities have been established at National Agricultural Research Organisation research centres of NASSARI in Serere, KAZARDI in Kabale and NGETTA in Lira respectively. The Ministry of Water and Environment signed an MOU with NARO to this effect to provide land to demonstrate the various best practices in order to ensure sustainability of the demonstration centres even beyond the project period. The project has in turn supported NARO to set up the demonstration plots, renovate and equip their training facilities at the 3 research centres in order to create a conducive environment for training various stakeholders.

4. Promotion of improved cooking stoves through women groups

One of methods targeted by the EURECCCA project to reduce on deforestation in the catchment is through promotion of improved energy saving stoves. This has been done through identifying existing 18 women groups (6 per catchment) to partner with in this cause. The women groups were then trained and given the skills of producing and marketing the cookstoves as well as given funds to produce the cookstoves within the communities. As such, the women have been empowered with an alternative source of income and a skill. The communities have also appreciated the energy saving stoves as a means of reducing the amount of firewood used, the amount of time taken cooking and the amount of money spent in a household.

5. Support of existing tree nurseries to produce tree seedlings

Restoration of degraded land is one of the major outputs of the project where it is expected that 1,200,000 tree seedlings are expected to be planted. The EURECCCA project targeted the existing tree nurseries in the catchment and supported them with trainings, tools, inputs and seeds to expand their tree nurseries and supply the required tree seedlings. As such, the 9 targeted tree nurseries (3 per catchment) have been able to supply the community members with various tree species that have been planted. The nursery operators have also been trained on how to manage a tree nursery and grow trees and are in charge of following up the planted trees so as to ensure a high survival rate.

6. Community based restoration of degraded areas

The project has employed a stakeholder/ community-based approach of restoring degraded riverbanks, wetlands and construction of water harvesting and flood control structures as a means of enhancing the resilience of the ecosystems and communities to the risk of floods and landslides. As such, local consultants were hired to support the communities to prepare restoration action plans and later supervise their implementation. The communities that were mobilised during the preparation of these plans were the same communities that implemented the action plans by providing labour to construct the water harvesting and flood control structures, plant the tree seedlings and install the pillars, all required for restoration of the ecosystems.

Invitation to Participate in the Side Event

During the UWEWK2020, the proponents of EURECCCA Project will share the above experiences and lessons learnt, so far, in a two-hour session on the side lines of other events on Friday September 18, 2020 starting from 10a.m. EAST. Please register to participate in this side event. You are welcome.

