



ENTRO

**NILE BASIN INITIATIVE**

INITIATIVE DU BASSIN DU NIL

# NILE - FLOW VOLUME 16

JANUARY – JUNE 2024

THE VIEWS EXPRESSED IN THIS NEWSLETTER  
DO NOT NECESSARILY REPRESENT THOSE OF NBI,  
ITS MEMBER STATES, OR DEVELOPMENT PARTNERS.



## Contents

<b>Projects</b> .....	<b>1</b>
• <b>Ongoing Project</b> .....	<b>2</b>
<b>News</b> .....	<b>11</b>
<b>Event</b> .....	<b>15</b>

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## About the Newsletter

ENTRO produces a magazine called Nile-Flow. We print free copies, which are sent to our governance members, line ministries, stakeholders in the Eastern Nile Region, NBI Centers, our Development Partners and counterparts across the world.

Nile -Flow features institutional and technical information related to Nile water cooperation activities undertaken by Eastern Nile Technical Regional Office (ENTRO), Eastern Nile countries and partners.

## What is in the Name?

We have chosen “Nile -Flow” as the name of our Newsletter.

### **Nile – Our great river!**

**Flow**-The flow of our great river, running through the Four sisterly Eastern Nile Subsidiary Action Program (ENSAP) Countries of Egypt, Ethiopia, Republic of South Sudan, and the Sudan; connecting the people, their cultures, their histories, their livelihood, and shared destinies since time immemorial.

In the psychological sense also symbolizes a feeling of energized focus, of total engagement, and success in the activity being undertaken – i.e; in the ENSAP cooperation process we are all engaged in. Thus, the twin message: a description of reality, on the one hand, and a statement of hope, vision, and purpose on the other.

## Message of Executive Director



Eastern Nile Technical Regional Office (ENTRO) has been established by the Eastern Nile Council of Ministers (ENCOM) in June 2002 to identify, prepare, and facilitate implementation of cooperative projects within the Eastern Nile basin. The overall purpose of ENTRO is to support ENSAPT and ENCOM in the complex task of developing, implementing, and managing the multi-country Eastern Nile Subsidiary Action program. ENTRO country members are Egypt, Ethiopia, South Sudan and Sudan.

In this Nile Flow newsletter, a variety of topics are covered, which relate to the main recent ENTRO activities that have taken place over the past six months. ENTRO believes that the cooperation among the Nile Basin countries in general and the Eastern Nile in particular, can only be achieved through strong engagement of the stakeholders in the different ENTRO activities.



This is clearly reflected in the topics covered in this edition of the Newsletter. These include ENTRO Governance meetings, workshops/events, projects, projects discussions with our Development Partners, staff news, upcoming initiatives, and engaging conversations.

ENTRO would like to inform our esteemed readers that our newsletter and other documents including valuable reports on our projects can be found on our website

<http://entro.nilebasin.org/>, [ikp.nilebasin.org](http://ikp.nilebasin.org/).

We encourage our readers to stay updated on the latest activities at ENTRO by continuing to read our materials.

**Thank you for staying connected with us.**

**Acting Executive Director and  
Senior Regional Project Coordinator,  
Eng. Teshome Atnafie.**



## Projects

## NBI/ENTRO Project Activities.

The Eastern Nile Technical Regional Office (ENTRO) has been established by the Eastern Nile Council of Ministers (ENCOM) in June 2002 to identify, prepare, facilitate implementation, and coordinate cooperative projects within the Eastern Nile basin. The overall purpose of ENTRO is to support ENSAPT and ENCOM in the complex task of developing, implementing, and managing the multi-country Eastern Nile Subsidiary Action Program (ENSAP).



*ENSAPT Members, December 2023,*

ENTRO is governed by ENCOM as the highest decision-making body, assisted by the Eastern Nile Subsidiary Action Team (ENSAPT), composed of three senior technical officials from each Eastern Nile (EN) member country.

*"We Work to realize shared benefits of cooperative Water Resources Development and Management in the Eastern Nile".*

## Ongoing projects

## Dam Safety Management

Many of existing dams in the EN sub basin, particularly small dams, were built with limited technical investigations, inadequate design, and poor construction quality. These issues have been compounded by limited investments in operations and maintenance, as the public sector dams are mostly financed through Government transfers, which are often insufficient and neglected. As a result, many dams, particularly medium and small dams are deteriorating, posing a substantial risk to human safety and economic security, with structural and non-structural safety often falling below acceptable international standards. The deterioration of these dams, coupled with increased risk and uncertainty resulting from hydrological variability due to climate change, and uncoordinated operation in the sub basin, has placed many reservoirs at risk.

Recognizing this, key issues and actions are identified to develop and implement a dam safety regulatory framework and dam safety management plans at the EN region, national and dam owner levels. ENTRO Dam Safety previous studies have produced the following important reports:

- Road map for Preparation of a Regional Dam Safety Framework
- Reference Dam Safety Guidelines for EN
- Dam Safety Framework for the EN
- Small Dams Safety Guidelines
- Dam Safety Training Module







*Merowe Dam and Hydropower plant Sudan*

The current ongoing study aimed at improving the capacity of the riparian countries to manage risks related to the safety of dams and downstream communities and address the inter-dependencies associated with dams in transboundary basins may result in serious impacts across boundaries.

***The study has the following sub-components:***

Basin wide Reference Dam Safety Regulatory Framework and Implementation Strategy to Support Member States to develop their own National Framework.

- (i) Establishment of a Regional Dam Safety Training Center.
- (ii) Capacity Building including strengthening of National Dam Safety Units.

The implementation of these sub-components is going smoothly.

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## Flood and Drought Risk Mitigation

Flood and drought risk mitigation project contributes to improving mechanisms for cooperation in the Eastern Nile riparian countries in a challenging hydro-political environment by focusing primarily on provision of flood and drought risk mitigation services built on ENTRO's achievements in flood forecasting since 2010 and recently on Nile wide drought risk mitigation work. Some details on update of activities done and remaining work are given below.

## A. Flood Risk Mitigation (FRM)

The FRM project has three components: (a) WP1: Surveying and Data Collection – completed, (b) WP 2: FFEW enhancement and Flood Risk Mapping - completed, and © WP 3: Support in Establishing Flood Community Awareness and Preparedness - ongoing.



### WP1: Surveying and Data Collection (completed):

Ground and EO based flood topography survey, asset and community data collection completed on 15 Jan 2024, after one year work, through firm consultancy work of CMC & MEEEO, in which products were reviewed through regional inception and validation physical workshops with the following deliverables:

- Topographic survey completed for Atbara, Humera, Malakal, Akobo, Nassir, Pibor, Gambela and Itang. Asset maps for 9 sites completed and delivered to WP2 Consultant. Data shared to WP2 and WP3 consultants.
- Database conceptualization, data categorization (TS and Spatial datasets), Software development, reviewed at workshop and tested and implemented at ENTRO and operational.
- Community field survey completed, and report produced for flood prone communities at Akobo, Malakal, Pibor, Nasir, Gambela and Itang. These data were shared to WP2 and WP3 consultants.

### WP 2: EN-FFEWS enhancement and Flood Risk Mapping (completed):

EN-FFEWS enhancement and flood risk mapping, after one year work, completed in June 2024, through firm consultancy work of DHI, in which products were reviewed in regional inception and validation physical workshops with the following deliverables:

- Enhanced EN-FFEWS system completed and is operational for TSA, Blue Nile, Lake Tana, and BAS (at 35 forecast locations, rainfall over 55 catchments). The model is in public domain.  
<https://entro-ffews-dev.westeurope.cloudapp.azure.com/>
- Flood hazard maps for 16 flood prone areas produced and shared with WP3 consultant.
- Flood vulnerability and risk maps for 16 flood prone areas.
- Capacity building training conducted, on the enhanced EN-FFEWS for the national FFC experts of Ethiopia, South Sudan and Sudan. The advanced training were recorded for future re-use.



### WP3: Support in Establishing Flood Community Awareness and Preparedness (ongoing).

Update on works done: Support in Establishing Flood Community Awareness and Preparedness WP3 contract signed with MetaMeta and HKV on 15 Feb 2024; and inception workshop conducted on 4-5 April 2024 in Ethiopia.

The consultant delivered on 20 August 2024, Flood Management Strategies for each of the 17 flood prone sites (7 sites in Ethiopia – TSA, Lake tana, BAS; Four In South Sudan in BAS; and 6 in Sudan in TSA), and Community specific flood action Bulletins for each of the 17 flood prone sites.

Remaining activities: Submission of (a) flood community awareness and preparedness plan and its implementation plan, (b) flood protection report for each of the seventeen sites. Also, the remaining work are: (a) conducting national flood preparedness training workshop as well as regional validation physical workshop, (b) flood community guidelines for each of the seventeen sites will be prepared and printed with relevant local language (English, Amharic & Arabic). The work will be completed by December 2024.

### B. Drought Risk Mitigation (on going)

Development and implementation of Nile Drought Early Warning System (Nile DEWS) through firm consultancy with RMSI has been undergoing since 11th October 2023 based on the Nile basin drought early warning need, and data / knowledge gap assessment conducted by ENTRO in 2022.

**Update on works done:** Based on these baselines study, Nile DEWS regional inception workshop conducted on 29-30 January 2024, in Addis Ababa. Draft Interim report on the Nile-DEWS submitted on 15 August 2024 for review.



**Remaining activities are:** Submission of Version 1 of Nile DEWS software by the first week of September 2024 for review; conducting Nile DEWS software validation through regional workshop and feedback from the field by Jan 2025; and finalizing Nile-DEWS and get approval from the Nile Governance and to be completed by the end of May 2025 and putting the Nile-DEWS system online for the public.

### (C) ENTRO Consultation, capacity building, flood prone area field visit and other activities

ENTRO strengthened capacities of the EN national forecasting centers; and conducted community level flood awareness and preparedness training for Ethiopia, South Sudan, and Sudan including.

- FFC Ethiopia expert training conducted at Hawassa from November 27 – 29, 2023.
- FFC experts training for South Sudan and Sudan experts conducted in Juba from: 16-18 Jan 2024.
- Community level awareness training South Sudan and Sudan conducted in Juba from: 19-20 Jan 2024.
- Community level awareness training for Ethiopia was done 16-17 May 2024 in Hawassa, Ethiopia.



### Remaining activities (Up to May2025):

- Conduct community and institutional consultation / organizing field visit to flood prone areas (consultation with communities, local authorities, national water and DRM institutions)
- further build capacity of the EN national forecasting centers through EN-FFEWS further training.



### (D) Benefits to the EN Countries so far:

- The Flood and Drought Risk Mitigation project created a collaborative platform for the EN countries to work together through physical workshops, some data sharing, on working groups meeting and joint approval ENTRO products.
- Flood forecast information provided by the enhanced EN-FFEWS (through WP2 work) has been utilized by the three countries and other stakeholders to save lives and their assets, and the 2024 forecast generation and dissemination are going on. The EN-FFEWS has a potential to benefit – about 2 million people residing in the flood prone areas in the EN. The FFC national experts every year are hosted at ENTRO for training and to issue FFEW with ENTRO experts. ENTRO regularly disseminates 3-day ahead forecast flood forecasts to the three countries Water Affairs Ministries and to > 200 other stakeholders. The EN-FFEWS services are also online for the public. The Water Affairs Ministry uses it as one input for their decisions to issue warnings for the flood prone areas. This year Amhara RS South Gondar DRMC has been utilizing ENTRO forecast as one input for their local decision

(Gumara flood case was ahead forecasted by ENTRO, Rib River overflowing the Bahir Dar-Gondar bridge near Adis Zemen, on 06 Aug 2024). WhatsApp based communication set by Ethiopia Flood intern facilitated the dissemination of forecast and receiving ground condition to and from the Zonal level flood managers in Lake Tana.

- Ethiopia, South Sudan and Sudan acquired the latest floodplain topographic map (DEM) and asset maps through (WP1 work), which were shared to the countries and the countries can also be used for other engineering works.
- The Flood Risk Mitigation project activities have strengthened national offices (equipment and training) in terms of capacity and overall reduced the risk of flood devastation for ~100,000 million people in the flood prone areas Lake Tana, Atbara, Blue Nile and Baro-Akobo subbasin.





## Internship and Young Professionals:

ENTRO has taken the initiative to establish an internship project as part of its core activities and successfully implemented in the last 11 years. This project has proven immensely popular in fostering cooperation and allowing ENTRO to expand its professional network.

The internship program started in 2011 when ENTRO worked with the World Bank to modify the implementation arrangement of the Eastern Nile Planning Model (ENPM) project. This has helped ENTRO to engage the countries through partnership with scientific communities (EN universities). The Internship Project has proven more effective in terms of building in-house capacity and bringing a diversity of expertise and outreach opportunities to ENTRO and academia. It has made a significant contribution to ENTRO in terms of enhancing and developing new analytical tools and knowledge products. On the other hand, ENTRO also enhanced the capacity of interns through facilitating training in various areas related to ENTRO projects.



*Interns during field visit*

The goal of the internship project is to empower young people from the Eastern Nile countries to support the emergence of a shared understanding about the resource base – its potential, the risks it is facing and its future. So far ENTRO has implemented the 8th batch according to the project implementation plan.

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## Regional Climate Resilient Program (RCRP) for Eastern and Southern Africa.



*1st RCRP Meeting*

The purpose of this project is to improve regional preparedness for the increasing frequency, intensity, and impact of water related climate shocks on people, livelihoods, infrastructure, and ecosystems.

### Objective

The objective of the Regional Climate Resilience Program for Eastern and Southern Africa Project is to improve the management of water-related climate impacts in Eastern and Southern Africa, and, in case of an Eligible Crisis or Emergency, to respond promptly and effectively to it.

### Components of the Project

#### Component 1. Risk Management and Climate Financing

- 1.1. Climate and Disasters Risk Management
- 1.2. Climate Financing

#### Component 2. Infrastructure Investments and Sustainable Asset Management for Climate Resilience

- 2.1. Enhancing institutional capacity for long term climate risk management
- 2.2. Closing the climate resilient infrastructure gap
- 2.3. Sustainable Asset Management





**Component 3. Adaptive Climate Services for Resilient Communities**

- 3.1. Community outreach
- 3.2. Mainstreaming climate resilience in social protection programs

**Component 4. Project Management**

**Component 5. CERC**

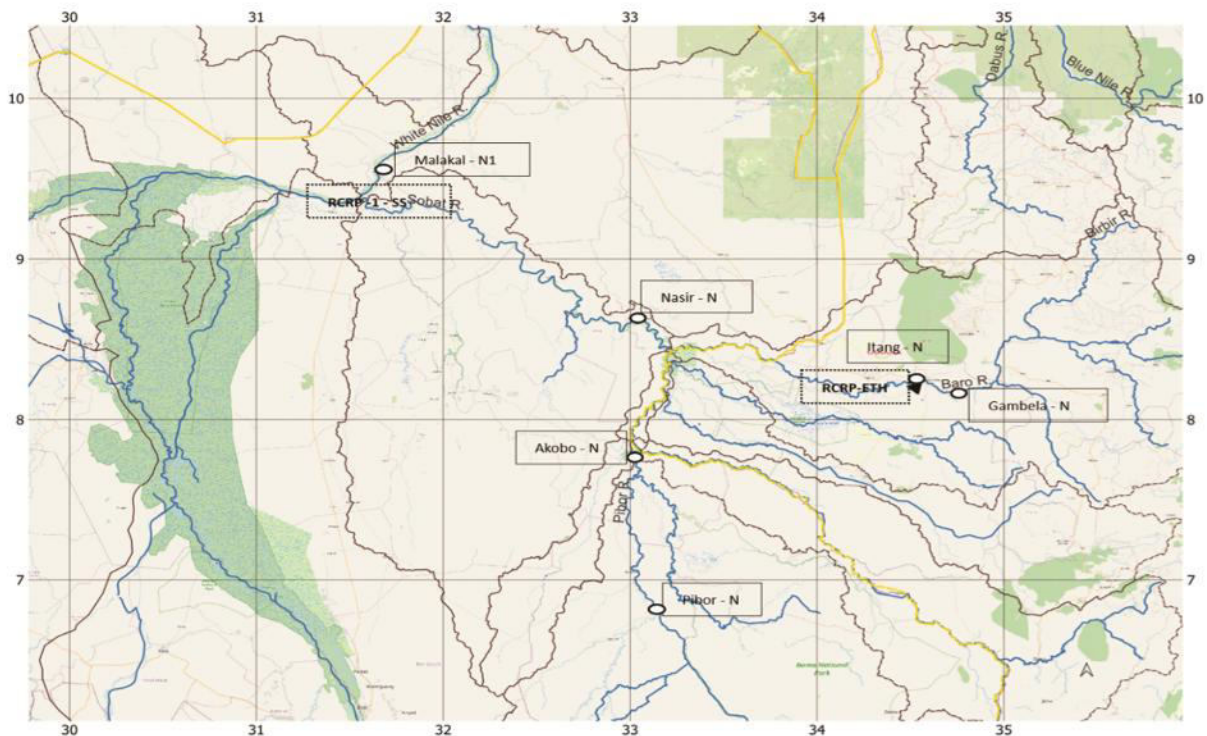
- For Comoros only: Contingent Emergency Response (CERC) mechanism
- 2.2 and 3.2 are not implemented in Nile Basin

**Project Beneficiaries:**

**A) Regional Institutions:** SADC and ENTRO’s capacity will be enhanced through their participation in tailored technical training and others.

**B) National Institutions:** Institutions responsible for Hydromet and early warning systems, disaster risk management, and water resources management at the regional, national and subnational levels, including line Ministries, government agencies, national authorities, and agencies at the national and sub-national levels.

**C) Community-Level:** Vulnerable communities and families will directly benefit from improved early warning systems and preparedness capacity.



*RCRP BAS flood risk study location map.*



### **Current Status of the project**

- The project activities planned to be implemented in the next 5 years.
- But we planned to complete the project in the next three years.
- There are Serious of Projects (SOP) on Pipeline. The present project is SOP1.
- The project become effective July 31st, 2023
- Lead Technical Specialist leading the project is at recruitment stage
- AWPB prepared and submitted to Governance and WB and approved.
- Disbursement plan prepared and submitted.
- TOR preparation for Activities started at Both Centers





**The Executive Director of the Nile Basin Secretariat (Nile-SEC) visits ENTRO head quarter office.**



*Dr. Florence Adongo Visit ENTRO*

During her attendance of three NBI events parallelly implemented in Addis Ababa National Stakeholders of Ethiopia meetings, Task Team Meetings of the Nile River Basin Investment Program, NELSAP-CU Water Quality workshop, and Nile SEC Ground Water Project workshop Dr. Florence Adongo the Nile Basin Initiative Executive Director paid a special visit to ENTRO Premises in Addis Ababa.



Dr. Florence Grace Adongo, the newly appointed Executive Director of the Nile Basin Secretariat (Nile-SEC), along with the NELSAP-CU Regional Coordinator Dr. Eng. Isaac Alukwe, were welcomed by Dr. Salih Hamad Hamid the executive Director of ENTRO and ENTRO Staff. Throughout the visit, Dr. Florence Adongo expressed her gratitude to the Executive Director of the Eastern Nile Technical Regional Office, Dr. Salih Hamad, for the warm hospitality extended to them. She also thanked ENTRO for their contributions and hard work towards the success of the shared vision, emphasizing the high expectations and needs of the initiative. Dr. Adongo highlighted the importance of unity within the Nile Basin Initiative, referring to all members as one family. She expressed optimism about the future collaboration, stating that they aim to work together even more effectively in the future.

In conclusion, Dr. Florence Adongo expressed her appreciation to ENTRO Staff and praised the management for providing excellent facilities and favorable work environment.





**The National Country Consultation team on Water Quality conducted a courtesy visit to the Eastern Nile Technical Regional Office.**



*The National Country Consultation team*

The National Country Consultation workshop on water quality was recently held in Addis Ababa from 24-26, organized by NELSAP. Following the successful completion of the workshop, the team conducted a Courtesy Visit to the ENTRO Offices. During the visit, the team was introduced to the staff and received a brief presentation about the Eastern Nile Technical Regional Office by Dr. Muna, the Regional Water Resources Modeler.

After the presentation, a lively discussion ensued, with questions raised and ideas exchanged. The team Coordinator, Engineer Sami Osman Eltoum, Acting Program Officer for Water Resources Management & Development, and Regional Water Resources Engineer from NELSAP-CU, expressed gratitude to ENTRO and its management for their hospitality and warm welcome.

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*The National Country Consultation team in the Executive Director, Dr. Salih Hamid Office*

In conclusion, the Executive Director, Dr. Salih Hamid, thanked the team for their Courtesy Visit and emphasized that ENTRO is always open to collaboration and working together towards common goals.





## CAPACITY BUILDING TRAINING FOR THE SOUTH SUDAN AND SUDAN NATIONAL FLOOD FORECASTING CENTER STAFFS AND COMMUNITY



*19-20 Jan 2024: South Sudan and Sudan community flood risk awareness and preparedness training by ENTRO and NBD in collaboration of the Water Affair Ministries of South Sudan and Sudan.*

The capacity Building training took place in Juba, South Sudan from 16-20,2024 in Coordination with NBD. ENTRO conducted awareness training to the flood affected communities from Akobo, Pibor, Nasir and Malakal towns as well as Juba in collaboration with NBD. The detailed program is attached. Training from FFC experts and Flood managers/Community leaders from Sudan were conducted.

►To enhance the capacity of the South Sudan Flood and Sudan Forecasting Center staff at headquarters and branch offices on the EN-FFEWS,

### ***The objectives of the training were: -***

► To increase awareness on FFEW and preparedness levels to building flood resilient communities to the flood affected communities and institutions from Akobo, Pibor, Nasir and Malakal towns as well as Juba in collaboration with NBD. Training from FFC experts and Flood managers/Community leaders from Sudan were conducted.



*16-18 Jan 2024: South Sudan and Sudan Flood Forecasting Center experts training on EN-FFEWS by ENTRO in collaboration of the Water Affair Ministries of South Sudan and Sudan.*

ENTRO staff provided intensive training for three days for the South Sudan and Sudan Flood Forecasting Center staff on the EN-FFEWS on the technical modelling aspects of the EN-FFEWS. FFEW experts from South Sudan MoIWR , MET (1) + Juba UNIV (1). Training was given to flood affected community leaders (20 persons) and 1 person from each town of Akobo, Pibor, Nasir and Malakal towns as well as Juba (14 from Juba with 50% female) and MAHADM . (2). NBD staff supported this training.





## Inception workshop on Development of a Nile Basin-wide Drought Early Warning System (Nile DEWS)



*Inception workshop Participant*

The Inception workshop has been conducted from 29th - 30th January 2024 in Nexus Hotel Addis Ababa, Ethiopia. The participants of this workshop are members of the ENSAPT leaders, Technical Working Group, NBD, and NBI staff from the three centers.

The overall objective of the workshop was to consult and get feedback from the Nile Basin Flood and Drought Technical Working Group, the three centers of Nile-Sec, ENTRO, NELSAP-CU, NBD, and the WB experts. With specific objective of

- Assessing and providing feedback on the consultant approach and methodology presented in the draft inception report.
- Revising the draft detailed and revised methodology and workplan.
- Consulting on the existing drought monitoring and forecast information dissemination tools at national level.



The participants of this workshop were the Technical Working Group, NBD, and NBI staff from the three centers. The NB-F&D-TWG members from the NB countries, Participant from NELSAP-CU (Member of NB-F&D-TWG / Water Resources Officer), Participant from Nile-Sec (Member of NB-F&D-TWG/ Regional Water resources Modeler), Participant from NBD (Member of NB-F&D-TWG), Professional participants from ENTRO (ED, SRPC, FDRC, WRM, PA, FO), Consultant–RMSI, the remaining members of the NB-F&D-TWG and the relevant World Bank Team join the workshop virtually.

**After the workshop the following output was met.**

- Report on the assessment and feedback on the consultant approach and methodology presented in the draft inception report.
- Report on the raft detailed and revised methodology and detailed workplan.
- Report on additional information related to DEWS in the countries.
- Participants awareness on DEWS.
- Participants continuous engagement and getting their support are ensured.

*“We Work to realize shared benefits of cooperative Water Resources Development and Management in the Eastern Nile”.*



## Validation and Dissemination Workshop on Work Package 2 - Enhancement of the Eastern Nile Flood Forecasting and Early Warning (EN-FFEWS) and Flood Risk Mapping.



*The Validation and Dissemination Workshop Participants.*

The Validation and Dissemination Workshop has taken place from 11th -13th February 2024 Bishoftu Ethiopia. With the overall objective of conducting validation and dissemination of the WP2 deliverables on the enhanced EN-FFEWS and Flood Hazard Mapping based on the draft deliverables (Models and reports) and to get feedback and validate the work. With a specific objective of reviewing and validating the draft report and enhanced models developed for Blue Nile, Lake Tana, Bas and TSA flood plains including:

- ▶ Enhanced and Improved EN-FFEWS,
- ▶ Report on the Enhanced and Improved EN-FFEWS, and
- ▶ Flood extent models including FFA and spatial layers.



**After the workshop, the following points were achieved: -**

- The EN-FFEWS Models and products improvement areas identified and validated.
- Participants' awareness increased on the enhancement of EN-FFEWS and Flood Risk Mapping project to the EN countries.
- Participants continuous engagement and getting their support is ensured.
- Information on selected flood prone areas in the EN countries from the EN- experts collected by of model validation.
- Modelers capacity building enhanced by working on the enhanced models through consultant guidance.





**The Second Media training workshop took place in South Sudan, Juba Landmark Hotel from 28-29 February 2024.**



*Media Training Participants.*

The main objective of this media training workshop is to increase understanding of journalists on existing NBI cooperation and benefit gained, to share information on challenges and opportunities related to Nile Water Resources Management and Development, and to enable them to communicate factual and evidence-based information to concerned stakeholders (private sectors, NGOs, politicians, government advisors, local communities, users of the Nile water resource etc....) to enhance cooperation among the EN countries.

*"We Work to realize shared benefits of cooperative Water Resources Development and Management in the Eastern Nile".*

The media training workshop commenced with an opening address by Dr. Salih Hamed, the Executive Director of ENTRO. Dr. Salih Hamed provided a brief overview of ENTRO's background and various projects, highlighting the importance of the media in promoting Nile cooperation and the eastern Nile region.

Dr. Salih encouraged all media houses to actively participate in the training and stressed the importance of making the training interactive.

He also expressed gratitude to the participants for attending and wished successful stay during the media training programs. Finally, he invited Engineer Thomas Jang, Host ENSAPT leader South Sudan to address welcoming remarks.

The ENSAPT Leader Engineer Thomas Jang welcomed all the media training participant to Juba South Sudan and state that as the Eastern Nile, we are united as one River, one people, one vision to harness the power of the Nile and promote the sustainable use of our water resources. It is crucial for the media to actively engage in this mission and bring awareness to the importance of the Nile. Local communities must be informed about the developments surrounding the Nile, and it is essential for decision makers to be



*Dr. Salih Hamed, the Executive Director of ENTRO during opening Remarks*

well informed to make informed choices. Also, our thoughts and prayers are with Sudan as they strive for peace, and we extend an invitation to Egypt to join us in our efforts to collaborate on Nile conservation. Finally, he invites the ENSAPT Chair Dr. Zebene Lakew to officially open the training.

The Chair of ENSAPT, Dr. Zebene Lakew, extends his gratitude to South Sudan for their warm hospitality in hosting the Media Training. He also expressed his appreciation to ENTRO for their excellent preparation of the training. Dr. Zebene emphasizes the crucial role of media and highlights the high expectations placed on journalists, as media plays a pivotal role in shaping public opinion.

as media plays a pivotal role in shaping public opinion. He stresses the importance of ensuring accurate information and avoiding misinformation, as this can lead to misunderstanding and conflicts. Collaboration and dissemination of appropriate messages are key in achieving the goals of the program. The primary objective of this program is to educate participants on media practices, promote conflict resolution, and maximize the benefits of the Nile's resources.





The efforts of the Consultant are also acknowledged and appreciated By the ENSAPT Chair. Dr. Zebene officially declares the workshop open, signaling the beginning of a productive and enlightening training session.

During the media training session, the following points were covered: Nile cooperation, water resources development and management, Environment, and climate challenges of Nile Basin, Development Communication, Media Ethics, Concepts, and Principles, Develop Narration/ Stories and Distribute Them through Social Media and discussion, Public perception/ Role of media outlet in the water resources management, The Role and Principles of Media Communication in Trans boundary Rivers Context and also Reporting Trans boundary Rivers: From Conflict to Cooperation.



**Review Workshop for Basin wide Reference  
Regulatory Framework and Dam Safety  
Training Center Establishment Deliverable.**



*Dam Safety Review Workshop Participants,*

The ENTRO/NELSAP Dam Safety Review Workshop has taken place from March 4th to March 8th, 2024, at the Nairobi Safari Club Hotel in Kenya with a total of 39 participants, including representatives from ENSAP chairs, TAC, members of the Nile Basin Dam Safety Technical Working Group (NBDSTWG), ENTRO, NELSAP-CU, Nile Sec, World Bank, consultants.

*"We Work to realize shared benefits of  
cooperative Water Resources Development  
and Management in the Eastern Nile".*





***The objectives of the workshop were mainly:***

- ▶ To review the draft Report on reference regulatory framework for dam safety management in the Nile Basin countries.
- ▶ To review the preliminary training need assessment conducted for the establishment of dam safety training center for the Nile Basin countries.
- ▶ Discuss the key findings and agree on the way forward to finalize the Reference Dam Safety Regulatory framework and training center establishment.



The workshop also reviewed the draft reports of the Consultancy on Geo-Location and Remote Detection of Dams and Reservoirs in the Nile Basin implemented by NELSAP-CU.

Workshop participants through group and country discussions provided invaluable comments and information to the Consultants who are going to finalize their work and produced very useful deliverables.

### Consulting service for work package 3- support in Establishing Flood Community Awareness and Preparedness



*Consulting service for work package 3 Participants,*

The consulting service of work package 3 took place in Bishoftu Ethiopia, from April 4-5. The overall objective of the workshop is to conduct user design/ pre planning on the establishment of flood community awareness and preparedness. With the specific objectives of introducing the project to the EN countries for their continuous engagement and getting their support, to collect information and practical data / observations on selected 17 flood prone areas from the EN Flood and Drought Risk Mitigation Regional Technical Working Group (F&DRM RTWG ) members, to discuss on the riverine flood vulnerability and risks, and to improve early warning messages and dissemination tools; and finally get feed backs on the updated detailed work plan.



The participants of this workshop were members of the Technical Working Group, NBD, and NBI staff from the three centers and the World Bank, Disaster Risk Management Commission, city/Town Flood Manager Governance (district to national). During the workshop, the major activities include presentations, reviewing studies, and discussions are took place.



After successfully completing the workshop, participants have gained valuable skills and knowledge that enhance their professional development, like

- ▶ Increasing Participants awareness on the efforts of establishing flood early warning and preparedness in EN 17 flood prone sties.
- ▶ Collecting Information on selected flood prone areas in the EN countries from the EN- experts.
- ▶ Participants continuous engagement and getting their support.
- ▶ Receiving feedback on the updated detailed work plan.

## The Regional Innovative Stakeholders Forum II took place in Juba, South Sudan



*The second Regional Innovative Stakeholder Forum Participants,*

The second Regional Innovative Stakeholder forum has gathered stakeholder as an individual or organization who directly or indirectly influenced by or has the potential to influence the achievement of NBI's 10- Year Strategy, either at national and or basin-wide level.

The critical stakeholders' engagement in the EN can contribute to the creation of an amicable atmosphere of trust and confidence; making possible the exploration of new options and alternatives; they can utilize their extensive grassroots presence to disseminate positive information – to change mindsets; to shift the focus of national conversation from fear, negativism into that of collaboration and hope.





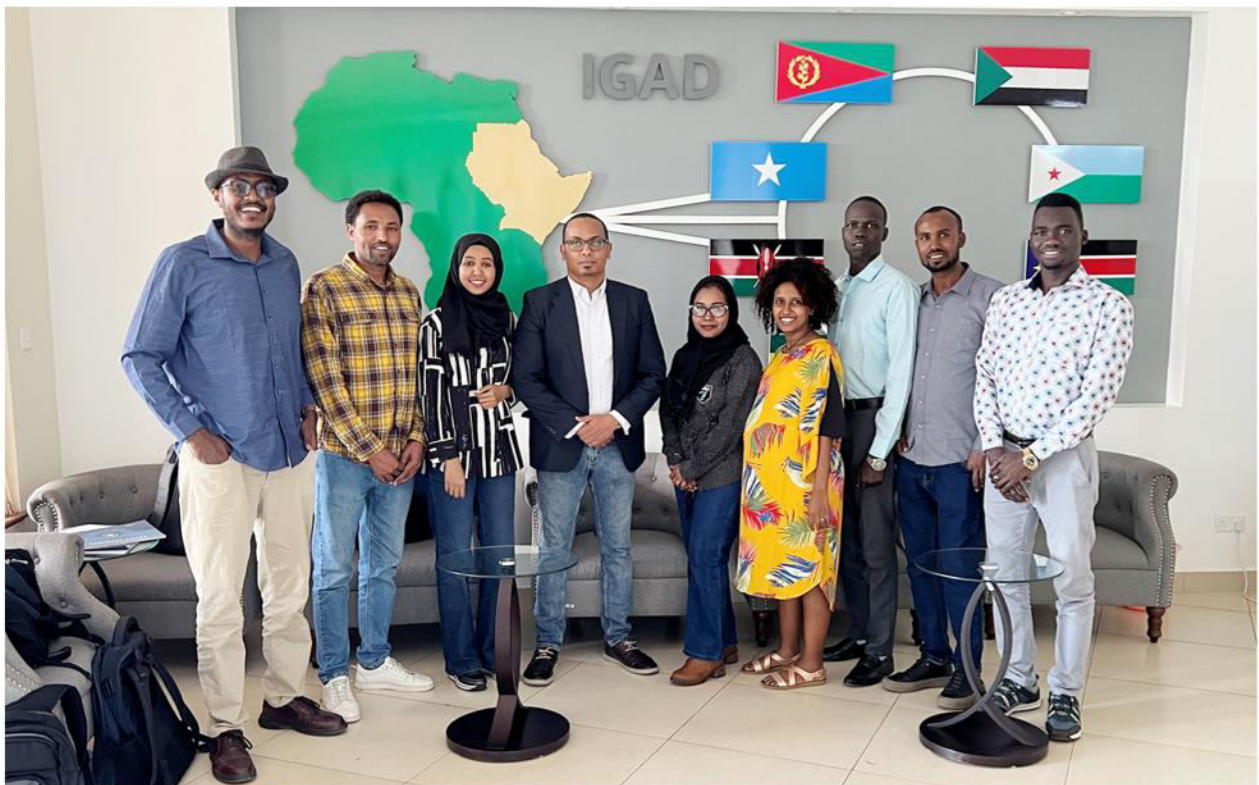


The second Regional Innovative Stakeholder Forum conducted from 16-18 April 2024 with the main objective of the to engage five critical Eastern Nile Stakeholders – the Faith Community (mainly of the two predominant faiths – Christian and Muslim), Hydropower/Dam operators and Ex-Diplomats (who have good knowledge of the Nile issues), media house owners, parliamentarians to promote all-inclusive Eastern Nile Cooperation and avoid or at least minimize misunderstanding and mistrust that hinders the shared vision.

Global experiences of TB Water resources management & development, Environmental resources of the basin & challenges, EN Hydro-diplomacy & international water law, Nile Basin Water Resources Potentials and its development status, Climate Change & its implication on EN/Nile basin are the main focus of the forum.

*"We Work to realize shared benefits of cooperative Water Resources Development and Management in the Eastern Nile".*

## The 7th NCCR Internship Batch Eastern Nile Climate Assessment: Rainfall Analysis



### *The 7th NCCR Internship Batch During Filed Visit*

The 7th batch was implemented by enrolling three interns from Ethiopia, two from South Sudan, and three from Sudan on competitive basis with the theme “Eastern Nile Climate Assessment: Rainfall Analysis” with two Sub-themes (Groups): (1) Eastern Nile River Basin Rainfall Trend Analysis and (2) Eastern Nile River Basin Rainfall Projection. The objective of the assignment was to assess and analyze the state of climate systems:

(1) by quantifying the rainfall anomalies and trends for the past 30 years in the Eastern Nile River Basin using Satellite and ground truth rainfall data from multiple national and global sources and (2) quantifying future precipitation projections (30 years period) from GCM simulation outputs of the Coupled Model Inter-Comparison Project Phase 6 (CMIP6), respectively.



**ENTRO provides: -**

- In-house training was offered to interns participating the 7th NCCR batches: the trainings are Induction Course (about Introduction to the Nile basin, The Nile Basin Initiative, and NBI structures), Geospatial and Climate Data Analysis
- Advanced training on Dynamic Climate Modelling procedures and HPC facilities; Seasonal Rainfall Prediction Systems; Drought Early Warning System (DEWS) in relation to Agriculture and Food Security; Eastern Africa Climate Drivers linkage and Impacts in the seasonal Rainfall



*Awarding Certificate*

Through these exercises, it was able to develop capacities of interns in terms of their understanding on the climate systems of the Eastern Nile River Basin, its linkage with drivers, variability, past and future trends, anomalies, analytical and spatial modeling technics together with the implication on the water resources of the basin.





*The 7th NCCR Internship Batch Field Visit to Kampala Uganda*

ENTRO has conducted an educational field visit and advanced modelling training from 24-29 April 2024 for the 7th NCCR internship batch working on the theme “Eastern Nile Water Resources Assessment: Situation Analysis” in partnership with the Nile Secretariat (Nile-Sec) in Kampala, Uganda. During the event, Interns obtained advanced modelling training on Nile Decision Support System (Nile-DSS) that include MIKE HYDRO Basin; MIKE HYDRO River; and NAM models. Each training session was facilitated with hands on exercise supported by Nile-Sec experts. As part of the mission, Interns have also engaged in a practical field excursion to the Source of Nile River system around Lake

Victoria and water resources development infrastructures (Nalubale and Kiira Hydropower facility) in Jinja. At the end, Interns have been capacitated in applying advanced techniques for water resources systems modelling, planning, and management in the terrestrial environment and familiarized with the Nile River systems.





*ENTRO Interns Visit to Nile River system around Lake Victoria and water resources development infrastructures (Nalubale and Kiira Hydropower facility) in Jinja.*

**8<sup>th</sup> NCCR internship batch working on the theme “Eastern Nile Water Resources Assessment: Situation Analysis**



*8th NCCR internship batch Filed visit*



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**The 1st Regional Steering Committee Meeting on the RCRP has been conducted in Johannesburg Republic of South Africa.**



*The 1st Regional Steering Committee Meeting Participants,*



The meeting took place from 8 to 10 May 2024 which was organized by the WB RCRP Technical Team Leader and hosted by the Southern Africa Development Commission (SADC). The meeting is the first for the Regional Steering Committee for the RCRP, under the heading of “Enhancing Regional Collaboration And Climate Financing Capacity In Eastern And Southern Africa”. The Program is envisioned as a regional multi phase engagement (Series of Projects, SOP) with the higher-level aim of strengthening the resilience of populations to climate-related shocks in Eastern and Southern Africa.

The RCRP is implemented by 5 countries namely Madagascar, Malawi, Comoros, Mozambique,

South Sudan and 2 River Basin organizations (RBOs): SADC and (ENTRO + NELSAP) representing the Nile Basin.

- Overview of the RCRP in all countries as well as the RBOs and the challenges of implementation.
- Climate Finance, improving enabling environment for accessing Carbon markets, Country Policy Frameworks, and roadmap for accessing Voluntary Carbon Markets.
- Considerations on Carbon Credit Pricing and Approaches for Monetization.
- RCRP Donor perspectives.



*During the meetings the following topics were presented and discussed,*

The meeting was attended by the Representatives of the two RBOs (From ENTRO: ED, SRPC & RCRP LS), Representatives of the 5 RCRP implementing Countries including the National RCRP Coordinators, Representatives from the African Union, AMCOW, RCRP TTL Ms. Laura Bonzanigo and many WB experts in Climate Financing who gave presentations in the issue. The upcoming RCRP RSC Meeting is scheduled to take place in Mozambique.



*Awarding Certificate for good performance*

*"We Work to realize shared benefits of cooperative Water Resources Development and Management in the Eastern Nile".*



## The Inception Workshop on the Development of the Eastern Nile Water Resource (EN WRs) Models and Tools conducted in Bishoftu, Ethiopia.



*The Inception Workshop Participants*

This workshop took place from June 27-28, 2024, with the primary goal of consulting and receiving feedback from key stakeholders such as the Nile Basin Water Resources Technical Working Groups. The purpose of this consultation is to gather input on the methodology proposed by the Consultant.

### **The specific objectives are to:**

- Provide an overview of the scope and objectives of each work package.
- Assess and provide feedback on the consultant approach and methodology presented in the draft inception report.
- Develop strategies for enhancing/developing existing tools and platforms for improved water resources management.
- Outline a road map for capacity building, streamlining knowledge platforms and establishing a web based knowledge exchange forum.





The participants of this workshop are experts in water resources modeling, water resources planning, and sediment transport modeling from the Eastern Nile (EN) countries, members of the Regional Technical Working Group, and staff from the Nile Basin Initiative (NBI) centers.

The expected outputs of workshop is to produce several key outputs, including: providing assessment and feedback on the consultant's approach and methodology outlined in the draft inception report, revising the methodology and detailed work-plan, sharing additional information related to the models and tools used in the EN countries, developing a training and capacity-building plan, creating strategies to enhance existing tools and

platforms, establishing a framework for streamlining knowledge platforms, and setting up a web-based knowledge exchange forum. The workshop will also focus on increasing participants' awareness of EN water resources models and tools.

*"We Work to realize shared benefits of cooperative Water Resources Development and Management in the Eastern Nile".*



**A consultation workshop held to discuss the strategic partnerships for the establishment of the Nile Basin Dam Safety Training Center.**



*Participant of the consultation Workshop*

The consultation Workshop is taking place from 15-17 July 2024 in Sky Light Hotel, Addis Ababa, Ethiopia. This workshop focuses on the Establishment of Regional Dam Safety Training Center for the NBI Region. The Regional Dam Safety Training Center is envisioned to contribute towards enhancing institutional and Human Resource Capacity of Nile Basin countries to better manage dam safety Risks, adopt good practice and encourage equivalence in dam safety management frame works throughout the basin. The Workshop experts will also reviews the work done so far in the establishment of the Training Center particularly the curriculum modules, the institutional framework for the Nile Basin Training center to ensure that the center will develop skills and technical competencies of policy makers, dam owners, operators, regulators, technicians, etc and ensure safe design, construction, operation and safety management of Dams, as well as ensuring sustainable operation of the center through a strong partnership with related international institutions and development partners.

The workshop was graced by a number of esteemed high officials, his Excellency Dr. Habtamu Itefa, Minister of Water and Energy of Ethiopia and ENCOM Chair, Excellency Dr. Abraha Adunga State Minister of Water and Energy of Ethiopia, ICOLD President Michel Lion and Vice President for Africa Region Dr. Quentine Shaw, Delegates from British Embassy, UNIDO and USAID Ethiopia, Unites States Bureau of Reclamation, United State Army Cops of Engineers, and United State Society of Large Dams, Canadian Dam Association, ICOLD Switzerland, International Water Disaster Management Japan, CEO of Ethiopia Electric power Mr. Ashebir Balcha, CEO Of Addis Ababa Water and Sewerage Authority Mr. Zeribun Abate, Addis Ababa University Faculty of Technology, Scientific Director Dr. Bikila Teklu, Nile SEC Executive Director, Dr. Florence Adango, Technical Advisory Committee Members, National Committee of Large dams Representatives in the Niel Basin From DRC, Ethiopia, Kenya, Rwanda, Sudan, Tanzania, and Uganda.





*Executive Director of ENTRO  
 Dr. Salih Hamad, Dr. Salih*

The welcome remarks were delivered by the Executive Director of ENTRO Dr. Salih Hamad, Dr. Salih state that ENTRO has so far done a lot in the way to establish the Regional Dam Safety Training Center by identifying key human and Institutional capacity training center gaps, training needs and develop a strategic document for subsequent activities including but not limited to curriculum development, training modules and framework for the regional training center. Also, ENTRO hired three international recognized Dam Safety experts, A senior Dam Safety Specialist and Institutional Development Specialist says Dr. Salih.



*Nile SEC Executive Director,  
 Dr. Florence Adango*

Accordingly, Dr. Salih Invited Nile SEC Executive Director, Dr. Florence Adango. During the opening remarks Nile SEC Executive Director, Dr. Florence Adango, said that “Dams and reservoirs to serve the people of the Basin effectively for the present and future generations, there must be proper Dam safety management processes right from planning, construction accompanied by proper operations and maintenance following best acceptable practices at each stage says Dr. Florence Adango which was followed by the remarks from ICOLD President Michel Lion.







*ICOLD President Michel Lion*

The ICOLD President Michel Lion state that “In the last decade, too many dams have been affected by serious incidents or failures during the first filling or the first 5 years of operation. The concern about dam safety is related to insufficient capacity and expertise at the global level. Capacity building appears to be a critical issue at the global level. Maintaining our reservoirs and creating new storage capacity is essential to meet the challenges of climate change adaptation and energy transition in the context of a growing population. We need to educate the young generation that will gradually take over” Says ICOLD President Michel.



*His Excellency Dr. Habtamu Itefa, Minister of Water and Energy of Ethiopia and ENCOM Chair*

Finally at the commencement of his address, his Excellency Dr. Habtamu Itefa, Minister of Water and Energy of Ethiopia and ENCOM Chair, emphasize that “Dam failures are among the worst manmade disasters experienced in a peacetime. We should all work together to avoid or reduce the risks at all cost and strength dam safety management in our member countries. The Government of Ethiopia is committed to provide all necessary support to operationalize this training center together with the member states.” Says Dr. Habtamu Itefa and declares the opening of the meetings and extends his best wishes for a productive workshop.

### **ENTRO Vision**

“A credible, adaptive regional institution fostering sustainable transboundary cooperation”.

### **ENTRO Mission**

“We Work to realize shared benefits of cooperative Water Resources Development and Management in the Eastern Nile”.



**R**egional Orientation, Focus on People and Environment We are committed to regional cooperation in all our activities and relationships among ourselves and with our partners. We are committed to work for the benefit of the people and the environment of the EN countries.

**I**nitiatives, Dynamism and Creativity As a team and as individuals, we take initiative and embrace new ideas for the enhancement of both our performance and our working environment. We strive for creativity to set the example and place for others.

**G**ender Balance, Equity and Respect Diversity In all our work and interactions, we give equal opportunities for both genders and seek gender balance. We also do not discriminate any individuals because of their beliefs or physical appearance. We emphasize mutual respect for individuals, recognition of their contributions, and their rights to equity in benefit sharing.

**H**onesty, Excellence and professionalism We perform all our duties in a spirit of trust, transparency and honesty. We are committed to excellence and professionalism in all our work. We do not compromise on quality and accountability.

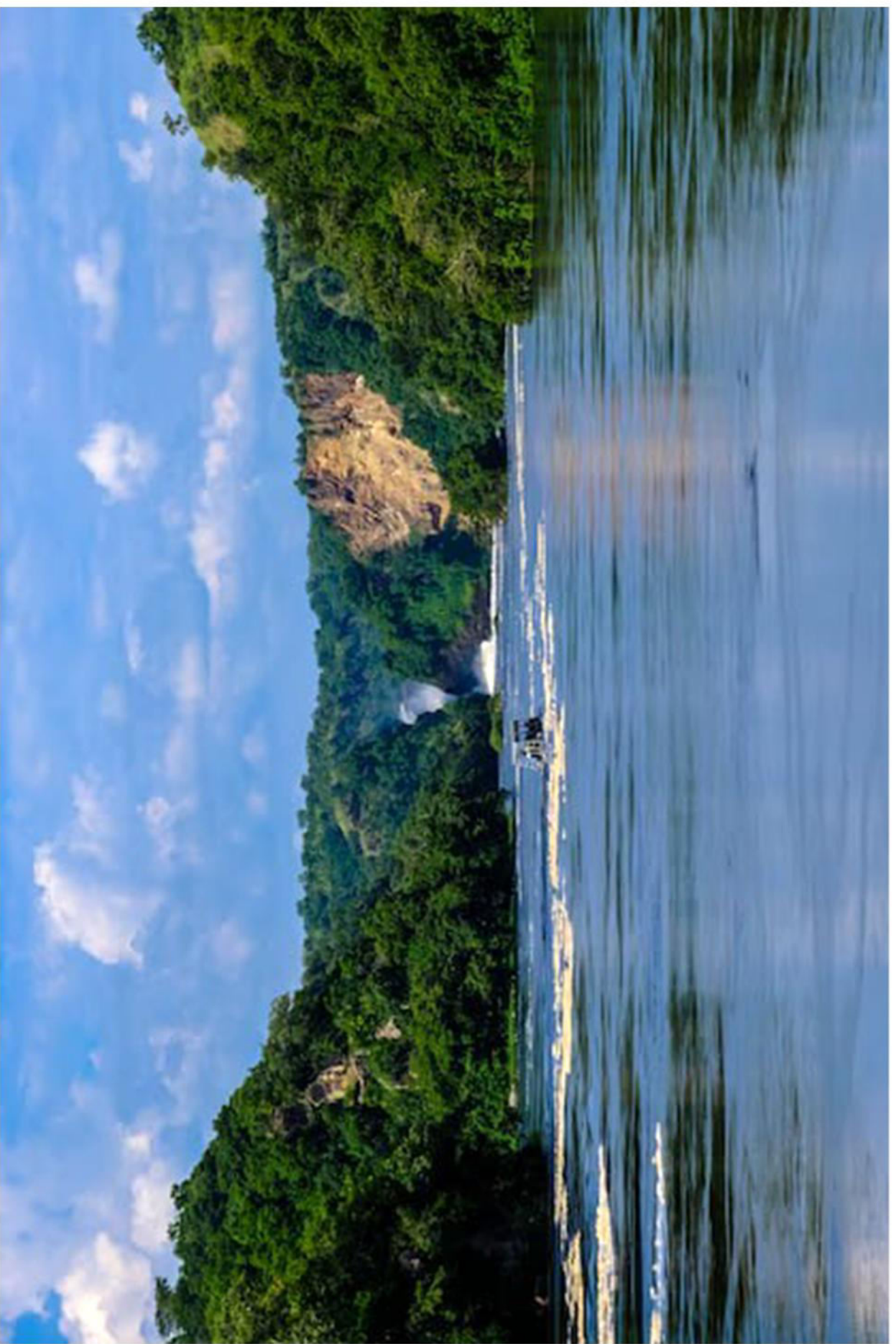
**T**eamwork, participation and partnership We choose to work in teams with our colleagues at ENTRO and with ENTRO’S owners and partners. We also seek to expand and intensify participation of non-governmental stakeholders, particularly from EN civil society and private sector.

We believe through participation and partnership we would achieve synergies otherwise lost. We hold ourselves individually and collectively accountable in achieving our commonly shared objectives.

















**One River    One People    One Vision**



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