






**NILE BASIN INITIATIVE**  
INITIATIVE DU BASSIN DU NIL

**WATER QUALITY INVESTMENT PLANNING AND  
PRIORITIZATION IN THE NILE BASIN**

## OVERALL OBJECTIVE

To cooperatively address the ever-increasing water quality and pollution control challenges in the basin.

## Water Quality Investment Planning and Prioritization Thematic Area

Sub thematic areas	Lead
1. Enhancing availability and use of water quality data 	Nile Basin Initiative Secretariat (NileSEC)
2. Clarifying options for policy and institutional harmonization 	Lake Victoria Basin Commission (LVBC)
3. Multi-Criteria analysis to prioritize investments in identified hotspots 	Nile Equatorial Lakes Subsidiary Action Program Coordination Unit (NELSAP-CU)



- \* **Enhancing availability and use of water quality data** aims to support improved water quality management at national and regional levels to address the growing threats of degradation of water resources.
- \* **Clarifying options for policy and institutional harmonization** aims to identify opportunities to harmonize policies and institutional structures that govern water quality management in the Nile Equatorial Lakes (NEL) countries to enhance cooperative management of shared water resources.
- \* **Multi-Criteria analysis (MCA) to prioritize investments in identified water quality hotspots** aims to enable the Nile Basin member states to identify water quality hotspots and undertake MCA to assess alternative investment options based on policy priorities.

## Key Achievements

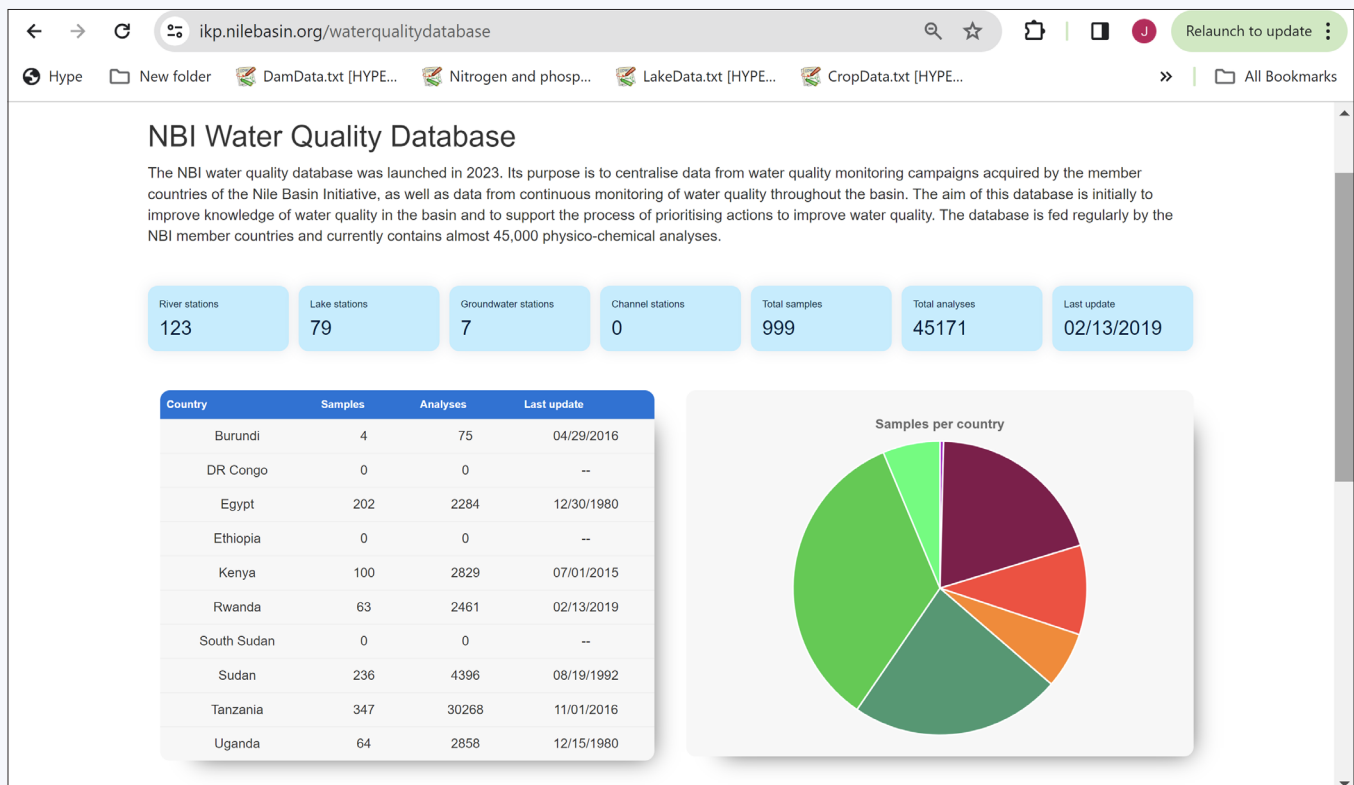
- \* An update design of water quality monitoring network, and technical specifications of water quality, sediment field tool kits and on laboratory equipment for each country were produced
- \* The development of Nile Basin water quality database was completed, deployed to NBI servers and linked to NBI Integrated knowledge portal (IKP)
- \* Water quality coarse maps produced, and water quality models developed in the six hotspots of water pollution
- \* Nine regional workshops for the NCCR regional experts working groups (REWG) on water quality were organized to discuss the project's deliverables
- \* An experiential study tour was organized for the participants from NBI and Nile Basin countries in Zambezi Watercourse Commission (ZAMCOM) to get a better understanding in water quality management and conservation activities at both national and regional levels, which will contribute to the post project sustainability in respect to pollution control and water quality management systems in their countries.
- \* Validation of the draft final East Africa Community (EAC) Water Quality Management Policy.
- \* Validation of the draft final Nile Equatorial Lakes (NEL)-Water Quality Management Strategy and Action Plan.
- \* Fifty (50) water quality hotspots (44 via literature review and an extra 6 through the Water Quality Database) identified.

## Way Forward

### Water Quality investment planning and prioritization and NCCR

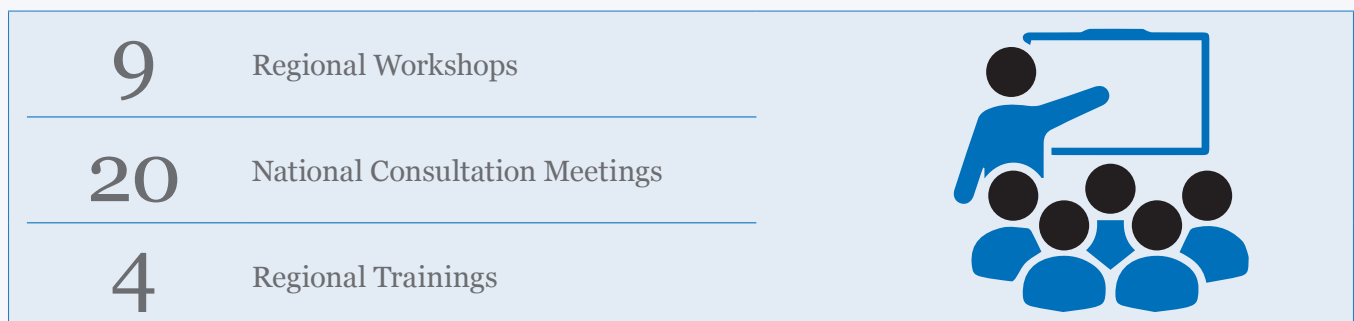
Water quality investment planning and prioritization is one of the five thematic areas of NCCR project, a project financially supported by the WB through CIWA trust fund and implemented by NBI centres in collaboration with LVBC and NBD.

- \* Approval of the draft final East Africa Community (EAC) Water Quality Management Policy and draft final Nile Equatorial Lakes (NEL)-Water Quality Management Strategy and Action Plan.
- \* Supply, installation and commissioning of laboratory equipment and water quality sensors in the Nile Basin countries
- \* Training of laboratory technicians on installation, operation and maintenance of laboratory equipment and water quality sensors
- \* Develop and agree on the water quality multicriteria analysis (MCA) objectives, goals and scenarios for the 4 selected hotspots and come up with the best investment option to water quality management



**Figure 1: NBI water quality database is developed and linked to IKP**  
<https://nilebasin.org/waterqualitydatabase>

## Water Quality Project Figures



Burundi



DR Congo



Egypt



Ethiopia



Kenya



Rwanda



South Sudan



The Sudan



Tanzania



Uganda



EAST AFRICAN COMMUNITY  
**LAKE VICTORIA  
 BASIN COMMISSION**  
*One People, One Destiny*



### Nile Basin Initiative Secretariat

P.O. Box 192  
 Entebbe - Uganda  
 Tel: +256 417 705 000  
 +256 417 705 117  
 Email: nbisec@nilebasin.org  
 Website: <http://www.nilebasin.org>  
 Facebook: /Nile Basin Initiative  
 X: @nbiweb

### Eastern Nile Technical Regional Office

Dessie Road  
 P.O. Box 27173-1000  
 Addis Ababa - Ethiopia  
 Tel: +251 116 461 130/32  
 Fax: +251 116 459 407  
 Email: entro@nilebasin.org  
 Website: <http://ensap.nilebasin.org>

### Nile Equatorial Lakes Subsidiary Action Programme Coordination Unit

Kigali City Tower  
 KCT, KN 2 St, Kigali  
 P.O. Box 6759, Kigali Rwanda  
 Tel: +250 788 307 334  
 Fax: +250 252 580 100  
 Email: nelsapcu@nilebasin.org  
 Website: <http://nelsap.nilebasin.org>

