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For improved transboundary water investment and management for Africa

9-12 December 2024
Entebbe, Uganda (Hybrid)

Welcome message

On behalf of all of the organizers and partners, we warmly welcome you to this Pan-African Water Governance and International Water Law Training, now in its seventh year!

The objective of the training is foster partnership and build capacity building for improved practices in transboundary water law and developing agreements for transboundary cooperation in Africa. Despite significant legal developments in international water law during the last few decades, several challenges remain. Some of the 64 transboundary rivers in Africa are still without legal arrangements for transboundary water cooperation while others are not operational across the entire basin due to important riparian states having been left out. In some cases, these arrangements lack the proper funding and devotion to face the intensifying global challenges on transboundary water resources while there is also a lot to be done in order to factor groundwater aquifers into the same equation.

This training seeks to bring participants from across Africa together in order to share lessons learned and deepen knowledge and understanding of water governance and international water law irrespective of differing backgrounds and disciplines. In doing so, the training will focus not only on the applicable legal rules and principles that shape how countries across the continent cooperate over their transboundary rivers, lakes and aquifers; but also, the more practical challenges and experiences in the implementation of international water law.

The training will be delivered through three main elements, i) lectures and Q&A sessions delivered by leading experts in the field to promote "practitioner-to-practitioner" learning; ii) case study presentations from practitioners 'in the field'; and iii) simulation exercises facilitated by the aforementioned experts.

Several core themes will run throughout the training. In its focus on international water law across Africa, the training will explore the rules and principles that are applicable to a diverse range of water bodies, including transboundary river basins and aquifers. Additionally, in not only looking at 'law on paper', but also looking at the practical challenges of implementation, the training will consider the national governance setting (laws, policies and institutions) in place to ensure that transboundary arrangements are implemented in an effective and efficient manner. A further theme that runs throughout the training is that of investment in transboundary water cooperation. Core facilitators will participate throughout the workshop to ensure that these key themes are considered throughout the lectures, case study presentations and simulation exercises.

We hope that this event will work as a steppingstone towards stronger collaboration related to international water law experiences and expertise in Africa.

We are looking forward to welcoming you all in Entebbe and online!

On behalf of the core organizing partners,

Water Convention Secretariat UNECE, Global Water Partnership, Water Resources Institute, University of Northumbria

TRAINING PROGRAM

Participants and trainers arrive on the weekend.

DAY 1 - Monday, 9 December

- 8:00-9:00 Registration
- 9:00 10:00 Opening session, Moderated by Remy Kinna, UN Water Convention
 - Opening remarks (15 mins)
 - o Mr. Komlan Sangbana, UN Water Convention (5 mins)
 - Ms Loreen Katiyo, Global Water Partnership Southern Africa & Mr. George Sanga, (formerly) Global Water Partnership East Africa (5 mins)
 - Alfred Okot Okidi, Permanent Secretary, Ministry of Water and Environment, Uganda (5 mins)
 - Keynote: "Uganda's transboundary cooperation: harnessing international water law frameworks for investment, development and peace" Callist Tindimugaya, Uganda, Water Resources Institute/CapNet (8 mins)
 - Introduction & overview of training (30 mins)
 - Brief overview of training & Introduce trainers origins, aims, agenda, outcomes, Remy Kinna (8 mins)
 - Mentimeter poll to get snapshot of participants & expectations (15 mins) Remy Kinna & Yelysaveta Demydenko (online)
- 10:00 11:00 Transboundary water cooperation in Africa and international law challenges and opportunities, facilitated by Remy Kinna
 - Transboundary water cooperation in Africa: How are we doing? Insights from SDG 6.5.1 and 6.5.2 reporting, Alistair Rieu-Clarke and Yelysaveta Demydenko - online (8 mins)
 - Governance architecture for transboundary waters across Africa, Emmanuel Kasimbazi (8 mins), Overview of legal and institutional architecture applicable to rivers, lakes and aquifers across Africa
 - Introduction of Practical Guide and how it can support development of agreements and achievement of SDGs, Komlan Sangbana (8 min)
 - Use of IWRM tools for negotiation, GWP toolbox, MOOC Yelysaveta Demydenko (online) (8 min)
 - Q&A (20 mins)
- 11:00 11:30 Break and Group Photo
- 11:30 12:30 Infrastructure and investment on transboundary waters in Africa, facilitated by Komlan Sangbana
 - Current status of transboundary water infrastructure and investment in Africa Loreen Katiyo, Global Water Partnership, Africa Coordination Unit/AUDA-NEPAD with Ibra Wahabou, Head of Infrastructure and Transport Unit, AUDA-NEPAD (8 mins)
 - Snapshot of past and current investments; types and levels of investment opportunities; future potential for investment and key challenges across Africa

- Mainstreaming climate change into basin agreements in Africa lessons learned for promoting & attracting investments? Diane Arjoon, Principal Rural Water Security Officer, African Water Facility, African Development Bank (8 mins)
- World Bank tools for advancing and supporting investments in transboundary basins in Africa, Anders Jagerskog, Global Focal Point for Transboundary Waters and Program Manager for the Cooperation in International Waters in Africa (CIWA), World Bank - online (8 mins)
- Q&A (30 mins)
- 12:00 12:30 An introduction to international water law the basics, Alistair Rieu-Clarke
 - Overview of evolution of international water law and its key elements, i.e., scope, substantive norms, procedural and institutional requirements, dispute settlement procedures (12 mins) Alistair Rieu-Clarke
 - **Q&A** (15 mins)
- 12:30 14:00 Lunch break
- 14:00 15:30 The role and relevance of the 1992 Water Convention and 1997 Watercourses Convention within an African transboundary investment context, facilitated by Komlan Sangbana & Remy Kinna
 - Overview of the UN Global Water Conventions, Remy Kinna (12 mins)
 - Evolution and current status of the Conventions, and relationship with ILC Draft Articles on Transboundary Aquifers.
 - Value added of Conventions in terms of supplementary existing legal arrangements at a regional, basin and bilateral level.
 - Normative content of Water Conventions, including similarities and differences, and relationship to African arrangements, e.g. SADC Revised Protocol
 - Institutional framework and programme of work supporting implementation of the Water Convention at transboundary and national levels
 - How could Global Conventions support transboundary investments?
 - Q&A (15 mins)
 - **PANEL DISCUSSION:** Accession to the Water Conventions an African perspective (60 mins including Q&A) Komlan Sangana
 - Introductory remarks (5 mins): Current status of accession across Africa, Komlan Sangbana
 - Country and basin organisation perspectives on accession, and how accession can support transboundary water investments and other developments,
 - ZAMBIA (Emma Ndlovu)
 - COTE D'IVOIRE (Wonnan Yeo)
 - ZIMBABWE (Norest Ndawana)
 - OMVS (Kandas Conde)
 - LVBC (David Mlote)
 - Q&A (15 mins)
- 15:30 16:00 Break
- 16:00 16:30 **The global water conventions, what's in them for me?** facilitated by Komlan Sangbana & Remy Kinna

- Participants will break into designated groups to discuss the added value of the water conventions at national and transboundary levels, particularly with its relevance in supporting transboundary water investments; and the challenges in ensuring transboundary rivers, lakes and aquifers are governed in an equitable and reasonable manner.
- 16:30 17:30 **Explanation of Group Exercise, distribution of materials** facilitated by Alistair Rieu-Clarke, Remy Kinna, Komlan Sangbana, Mutoy Mubiala, Loreen Katiyo, George Sanga
 - Plenary: Overview of the exercise & sessions (15 mins)
 - Group work: facilitator-led discussion of facts and initial issue-spotting (45 mins)
- 18:30 20:00 Welcome Reception

DAY 2 - TUESDAY, 10 December

- 9:00 9:15 Recap of day one and Agenda for Day 2, facilitated by Remy Kinna
- 9:15 10:45 Substantive norms in international water law facilitated by Alistair Rieu-Clarke
 - Overview of key principles of equitable and reasonable use, and no significant harm, Emmanuel Kasimbazi (8 mins)
 - Scope and meaning of substantive norms, including relevant factors and circumstances to take into account at national and transboundary levels when determining what is equitable and reasonable;
 - Practical examples of how countries have sought to ensure that their shared waters are used and protected in an equitable and reasonable way; as well as the challenges countries face in achieving equitable outcomes.
 - Protection of the ecosystems of international watercourses and international law, Juan Carlos Sanchez (8 mins)
 - Practice in the development international law relating to protection of ecosystems, treaty practice and customary international law; draw upon national experience, e.g. environmental reserve.
 - Q&A (20 mins)
 - PANEL DISCUSSION: Applying different substantive norms in transboundary water cooperation – current practice within Africa (45 mins including Q&A) Komlan Sangbana
 - Relebohile Lebeta (TBC): Transboundary benefits of the Lesotho –
 Botswana Water Transfer project
 - Callist Tindimugaya: Assessing benefits of transboundary water cooperation in the Sio-Malaba-Malakisi River Basin
 - Mutoy Mubiala: The application of international water law principles and norms in the implementation of major water projects (Water transfer, GERD-INGA)
 - Q&A (15 mins)
- 10:45 11:15 Break
- 11:15 12:15 Procedural aspects of international water law, including dispute settlement mechanism and institutional arrangements, Facilitated by Remy Kinna

- Notification and consultation of planned measures, Alistair Rieu-Clarke (8 mins)
 - Consider evolution and current status of customary international law relating notification and consultation of planned measures, including infrastructure projects; compare treaty practice across Africa and elsewhere; compare development bank policies; consider national level implications on notification, e.g. timing of notification vis-à-vis national planning processes.
- Environmental impact assessment (EIA) and transboundary waters,
 Emmanuel Kasimbazi (8 mins)
 - Trace evolution and current status of EIA in international law; consider scope of a 'transboundary' EIA; alignment of national EIA legislation with transboundary commitments.
- Stakeholder participation and transboundary waters, Sylvester Matemu (8 mins)
 - Overview of treaty practice in Africa related to stakeholder participation in transboundary water management, including case study of the Nile Basin Discourse
- International water law and dispute settlement, Mutoy Mubiala (8 min)
 - Dispute settlement in the implementation of major water projects, with a focus on negotiation techniques – GERD-INGA
- **Q&A** (20 min)

12:15 – 12:45 Special session on Gender

- Introduction on Gender in water Diplomacy, Natasha Carmi online, Geneva Water Hub (GWP MED) (8 min)
 - Highlighting importance of integrating gender sensitivity and women's empowerment
 - Case studies: From Egypt and Morocco.
- World Bank Women in Water Program and CIWA Gender Equality and Social Inclusion (GESI) Framework, Anders Jagerskog - online, World Bank (8 min)
 - GESI articulates a transformative approach to guide transboundary water engagements across Africa
- Q&A (10 mins) and noting Women in Water Diplomacy Network

12:45 - 14:00 Lunch

- 14:00 15:30 Institutional arrangements for transboundary water management and investments, facilitated by Komlan Sangbana
 - An overview of types of joint institutional arrangements in Africa, Loreen Katiyo (8 mins)
 - Highlight different institutional arrangements in place; scope, mandate and function; decision-making procedures; river basin organisations vis-à-vis management arrangements for transboundary aquifers; highlight linkages with national level coordination within basin/aquifer organisation structures.
 - The Cooperative Framework Agreement and the Nile Basin Initiative: What the CFA's entry into force means for the basin and the region – Florence Grace Adongo, Executive Director, Nile Basin Initiative - online (8 mins)

- PANEL DISCUSSION: River basin organisations in Africa (60 mins including Q&A) moderated by George Sanga
 - Introductory remarks (5 mins): Status and evolution of river and lake basin organisations across Africa and emerging trends
 - Basin organisation perspectives on how effective water governance can support transboundary water investments and other developments
 - OMVG (Nassirou Condetto Toure)
 - LIMCOM (Zvikomorero Manyangadze)
 - MBA (Razaki Sanoussi)
 - ZAMCOM (Gerald Mundondwa)
 - Q&A (15 mins)

15:30 - 16:00 Break

- 16:00 17:30 Negotiating transboundary water agreements and institutional arrangements facilitated by Alistair Rieu-Clarke
 - Negotiating transboundary water cooperation bridging theory and practice Komlan Sangbana (8 min)
 - In support of simulated negotiation exercise; consider both theory and practice in negotiating transboundary arrangements for rivers, lakes and aquifers.
 - How to make the most of the Practical Guide
 - Lessons learned from negotiating the Buzi, Pungwe and Save agreements: Background of the basin, negotiation experience from developing agreement, panel discussion, Pinimidzai Sithole online (8 min)
 - Q&A (10 min)
 - PANEL DISCUSSION: Negotiation of agreements and joint institutions for transboundary waters in Africa (60 mins including Q&A) moderated by Loreen Katiyo
 - Country and basin organisation provide African perspectives on the process, challenges, successes, lessons learned and advice for negotiating agreements and institutional arrangements
 - CUVKUN (Xanani Baloyi)
 - Namibia (Winnie Sibeya / Sevelia Koshipiyu)
 - Angola (Ivuila Antonio Rufino)
 - SMAB
 - Mauritania (Bacar Teiss)
 - LUAPULA
 - DRC (Bienvenu Mulwa Gagusa)
 - BUPUSA (Elisha Madambombe)
 - Mozambique (Alda Maunda)
 - **Q&A** (15 mins)
- 17:30 18:00 **Group Exercise:** facilitated by Alistair Rieu-Clarke, Remy Kinna, Komlan Sangbana, Mutoy Mubiala, Loreen Katiyo, George Sanga
 - Facilitator-led discussions focusing on the key aspects from Day 2 (30 mins)
 - Set clear roles and responsibilities in the sub-groups to prepare for Day 4

DAY 3 – WEDNESDAY, 11 December

For Face-to-face participants: Field trip to Jinja and River Nile / Online participants: Break day.

DAY 4 – THURSDAY, 12 December

Participants depart to home destinations

9:00 – 9:15	Reflections on the field trip
9:15 – 10:30	Group Exercise: Simulated agreement negotiation exercise (Part 1)
10:30-11:00	Break
11:00-12:30	Group Exercise: Simulated agreement negotiation exercise (Part 2)
12:30 – 14:00	Working Lunch: Finalise simulated negotiation exercise (Part 3)
14:00 – 15:30	Plenary discussion on Group Exercise: Reflections, lessons, ideas and outcomes
15:30 - 16:00	Break
16:00 - 16:45	Workshop reflection, next steps, resources and alumni network
16:45 – 17:15	Presentation of certificates and photo opportunities
17:15 - 17:30	Workshop closing

Facilitators/Guest lecturers (in person)



Dr Komlan Sangbana is a Legal Officer with the Secretariat of the Convention on the Protection and Use of Transboundary Watercourses and International Lakes. In this capacity, he leads the Convention's efforts on engagement and accession in West and Central Africa, as well as on the development of agreements and the establishment of joint bodies. He previously held positions in academia in both Togo and Switzerland and later worked as a Scientific Officer at the Geneva Water Hub, focusing on the governance of transboundary water basins in Europe and Africa. A

member of the African Society for International Law and the Platform for International Water Law (University of Geneva Law School), Mr. Sangbana holds a postgraduate degree in Public Law from the University of Lome (Togo) and a Doctorate in International Law from the University of Geneva (Switzerland). He has co-edited books, authored a monograph, and published several articles in various areas of International Water Law.



Mr Rémy Kinna is a Legal Officer working with the Secretariat of the UN Water Convention, serviced by UNECE. An environmental lawyer by training with specialisation in international water law, he leads the Convention's engagement and accession processes in Southern Africa, Eastern Africa and Asia-Pacific and on Transboundary Water Allocation. Prior to joining the UN in 2019, he worked for many years across Southeast Asia with environmental rights and humanitarian NGOs, having previously worked in law firms, academia and consulted on international water law in Asia, Africa and globally. Rémy holds undergraduate Law, Science

(Honours) and French degrees from Monash University in Australia and a Master of Laws from the University of Cape Town's Institute of Marine and Environmental Law where he was an Honorary Research Associate from 2015-2018. He has published extensively and was the Book Review Editor of the journal 'Water International' from 2013-2019.



Dr Loreen Katiyo is the Transboundary Water Governance and Environment Specialist at Global Water Partnership Southern Africa & Africa Coordination Unit. She also supports the Africa Union Development Agency (AUDA-NEPAD)'s Programme for Infrastructure Development in Africa (PIDA) Priority Action Plan (PAP) II, providing technical and coordination advisory for this continentally prioritised portfolio of regional and transboundary water investment projects. She has 18 years of experience in the Water and Environment sectors, and prior and current experiences include work in the Zambezi River Basin with WWF,

the Limpopo, Orange Senqu, Buzi, Pungwe, Save, Cuvelai and Kunene with Global Water Partnership, and several other PIDA Water Project basins with AUDA-NEPAD. Loreen has a PhD in Bioscience Engineering and a MSc in Water Resources Engineering, both from KU Leuven, Belgium, and a BSc Honours in Civil Engineering from the University of Zimbabwe.



Dr Callist Tindimugaya works with the Ministry of Water and Environment in Uganda as the Head of the Department for Water Resources Planning and Regulation with overall responsibility for ensuring sustainable and equitable utilization and protection of water resources of the country. Dr Tindimugaya has for over 10 years been representing Uganda on the Technical Advisory Committees of the Nile Basin Initiative (NBI) and Inter Government Authority on Development (IGAD). He is also a Vice President of the International Association of Hydrogeologists responsible for Sub-Saharan Africa.



Prof Alistair Rieu-Clarke is a Professor of Law at Northumbria University, Newcastle. His research interests focus on transboundary water cooperation, treaty compliance and implementation, hydropower projects and the sustainable development goals. His research has explored the role and relevance of both the UN Watercourses Convention and the Water Convention; as well as the application of international law within specific transboundary river basins, including the Mekong and the Nile. Since September 2016, he has been

working with the Water Convention Secretariat on reporting under the Water Convention and reporting under SDG indicator 6.5.2. He has contributed to Pan-Africa water governance and international water law training events since 2015, and has delivered postgraduate training in international water law for various institutions, including Edinburgh Law School, ETH-Zürich, University of Dundee, and for Global Water Partnership's Massive Open Online Course - Governance for Transboundary Freshwater Security.



Dr. Mutoy Mubiala holds his Ph.D. in international relations (specializing in international water law) from the Graduate Institute in International and Development Studies at the University of Geneva (Switzerland) in 1994. He is currently an Associate Professor of International Law at the Faculty of Law and the Water High School at the University of Kinshasa (D.R. Congo). Prior to this position, he worked as a Human Rights Officer with the United Nations from 1994 to 2019 and a Research Associate with the UNEP/UNITAR Programme on International Environmental Law and Policy from 1993 to 1994. He has

extensively published on international water law, including his doctoral thesis on L'évolution du droit des cours d'eau internationaux à la lumière de l'expérience africaine, notamment dans le bassin du Congo-Zaïre (Paris, Presses Universitaires de France, 1995). More recently, he has co-authored a book on La facilitation par la R.D. Congo des négociations tripartites entre l'Egypte, l'Ethiopie et le Soudan sur le Grand barrage éthiopien de la Renaissance (GERD) (Kinshasa, Ita'Yala Printer, 2022).



Dr. Juan Carlos Sanchez joined IWMI (International Water Management Institute) in 2022 as Senior Researcher on Water Governance and Policy. Currently he is the Research Group Leader on Water Governance and Political Economy. Before IWMI, he served as GIZ (*Deutsche Gesellschaft für Internationale Zusammenarbeit*) Technical Advisor — to the Nile Basin Initiative, where he focused on issues of wetlands and biodiversity conservation at the cross-border level. He holds a PhD from the University of Dundee (Centre for Water Law, Policy and Science) in Scotland and also worked with the International Union for the Conservation of Nature (IUCN)

on transboundary water cooperation for over 10 years in more than 20 countries.

TRAINING ON WATER GOVERNANCE AND INTERNATIONAL WATER LAW



Mr. George Sanga was until recently the Regional Coordinator of Global Water Partnership (GWP) Eastern Africa Region. His career path includes working with reputable global and regional organizations including UNICEF, East African Wildlife Society and Norwegian Church Aid. He has recently been involved in supporting the UNECE-led process towards accession to the Water Conventions by various countries in the Eastern Africa Region. George also sits in

the Advisory Committee of the European Water initiative for fostering International Sustainable Development (euWater4i-SD) and is also an official nominator for the prestigious Earthshot Prize. He holds a masters degree in environmental planning & management from the Catholic University of Eastern Africa and double bachelors in ICT and Sociology from Bournemouth University (UK) and Western New England University, Springfield, Massachusetts, USA respectively.



Professor Emmanuel Byarugaba Kasimbazi is a Professor of Law and a senior consultant in environmental and natural resources management and governance. Emmanuel's experience focuses on the development of policies, laws, guidelines, strategies and institutional reforms in the water and environment sector. Emmanuel is an outstanding environmental lawyer in Africa and beyond. His work has significantly contributed to the development and implementation of environmental law at national, regional and international levels. He has published over 30 monographs, book chapters,

articles, working papers and reports. Emmanuel is the former Director of the Environmental Law Centre at School of Law, Makerere University, Kampala, Uganda. He is the Environmental Law Expert of the Agreement on the Conservation of African-Eurasian Migratory Waterbirds and current Chair of the Specialist Group of Biodiversity Law of the World Commission on Environmental Law (WCEL) of IUCN. He is a Fellow of the Uganda National Academy of Sciences, the African Academy of Sciences and the World Academy of Sciences. Emmanuel's academic background includes the following degrees and diplomas: University of Kwazulu-Natal PhD (Law), University of Calgary (LLM), Law Development Centre, Diploma in Legal Practice (PGDLP), and the University of Dar as salaam.



Eng. Sylvester Anthony Matemu is an expert in transboundary water resources management and cooperation. He is a former Executive Director of the Nile Basin Initiative Secretariat (2021 -2023) and during this period he served as President of African Network of Basin Organizations (ANBO). Since January 2024 he is Regional Manager of Nile Basin Discourse (NBD), a regional network of more than 600 CSOs/NGOs. NBD supports communication between citizens and governments and also acts as a knowledge cum capacity sharing platform for stakeholders within and across

the 10 Nile basin countries. Eng. Matemu has brought to the NBD and the NBI institutions an extensive record in the public sector, spanning a period of 41 years, 27 of which were spent in the water sector. As a senior civil servant, he has served in different capacities including chairpersonship of various Technical Advisory Committees at national, regional, and international levels; board member of various water-related institutions; and advisory roles to Ministers responsible for Water, higher education, communication, science and technology in Tanzania. Since 2003, Eng. Matemu's expertise in transboundary water cooperation has been frequently requested for at high-level, regional and international forums, where he has either made presentations or been invited to serve on various technical committees. Eng. Sylvester A. Matemu has a background in Civil Engineering and holds a Master of Laws in International and National Water Law and Policy, University of Dundee (Scotland).

Facilitators/Guest lecturers (online)



Ms Yvelysaveta (Lisa) Demydenko is a Senior Programme Associate in the Water Solutions for SDGs team at the Global Water Partnership Organisation (GWPO) in Stockholm, with over 7 years of experience in International Water Law, Water Governance, and Transboundary Water Cooperation. Previously, she worked as Environmental Officer with the OSCE in Ukraine, where she led assessments of environmental risks and impact of armed conflict on

environment. She also contributed to data collection and analysis for reporting under the Water Convention and monitoring SDG indicator 6.5.2 while at the UNECE Water Convention in Geneva, and supported Energy Efficiency and Climate projects by GIZ in Ukraine. Yelysaveta holds a Master of Laws in Environmental Law from Stockholm University, Master and Bachelor degrees in International Law from Taras Shevchenko National University of Kyiv, and has completed courses in IWRM and International Water Law from the University of Geneva.



Dr. Pinimidzai Sithole is a development expert with 16 years' experience in the consulting, research, lecturing and international publication. He specialises in the fields of political economy, environmental issues, water policy and strategy, plural laws, natural resource governance, catchment management, gender mainstreaming and livelihoods development. He has facilitated training of trainers' courses and workshops in WASH, gender mainstreaming and capacity building. He holds a PhD in Public Administration (with a thesis focusing on comparative analysis of rural water governance in the Limpopo

Basin) from the University of the Western Cape, South Africa (in collaboration with IWMI), a Masters in Sociology and Social Anthropology and a Bachelor in Sociology (Hons) from the University of Zimbabwe.



Mr. Dimitris Faloutsos is the Global Water Partnership's Deputy Coordinator on the Transboundary Waters Cooperation theme and the Deputy Regional Coordinator of Global Water Partnership - Mediterranean. He is an Environmental scientist with an MSc in Oceanography. He has twenty years of experience in designing and implementing processes and projects in the fields of integrated water resources management applied in a source-to-sea context. He has extensively worked with multi-stakeholders partnerships and

developed several strategic documents and management plans. His work has led to the enhancement of transboundary cooperation in a number of shared basins, including through the signing of relevant legal arrangements.