9th World Water Forum

Actions submission format for Action Group 3E

Action Group : 3E Enhance North-South, South-South and triangular cooperation on data and information sharing, and capacity building
Coordinators International Network of Basin Organizations (INBO)
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Pilot Group observer : INBO, ICLEI

ACTION I: Better cooperation for better water information sharing
Overall Objective:

- Improve cooperation not only for better data availability, but also smoother data sharing as key necessities for sound implementation of water resources management.
- Disseminate new approaches and technologies to enhance and generalize data sharing processes
- Enlarge cooperation projects outside water communities and include ecosystem/nature/environment information and data in sharing processes

Overall purpose and expected results:
Overall SDGs Alignment: 6, 12.8, 16.10, 17.6, 17.9, 17.18
Coherence with other Priorities:

PROJECTS INCLUDED *WITHOUT order of priority and level of impact*	**OBJECTIVE**	**DESCRIPTION AND PURPOSE**	**EXPECTED RESULTS**	**SDGs ALIGNMENT**	**IMPLEMENTATION**	**PARTICIPANTS AND STAKEHOLDERS REPRESENTATIVENESS**	**REPLICABILITY IN OTHER CONTEXTS**	**REGIONAL REPRESENTATIVENESS**	**POTENTIAL OVERLAPPING OR COHERENCE WITH OTHER AGs**
Project I.1 - Enhance the use of satellite data for water resources monitoring through a dedicated think tank initiative	Establish a think tank initiative for sharing good-pratices, case studies and experiences relating to satellite information use for water resources monitoring.	This think tank (would) gather initiatives and projects that promote satellite-based approach to water management, protection and associated parameters monitoring. Satellite information use and satellite altimetry in addition to in-situ measurements, emerge as a component of operational hydrology and its field of application can be extended to various param-	Identifying good pratices to scaling-up and develop water monitoring based on satellite-based approach.	12.8, 16.10, 17.6, 17.9, 17.18	Workshops	*OiEau, AEAG, CACG*			

		eters for monitoring water resources. The MOSIS project can be an example of making of satellite datas based of several indicators for water monitoring.							
Project I.2 - Water quality monitoring from space of the Lake Chad basin for peace and sustainable development	Implement a satellite-based monitoring of water quality of the Lake Chad basin for peace and sustainable development	In the framework of the BIOPALT project that is aimed to support the restoration of degraded water resources and ecosystems , an innovative approach base on Earth Observation data has been set up to monitor Lake Chad water quality and see its evolution with time.	This satellite-based approach facilitate science-based policy-making for reducing water pollution and improving its sustainable management. Considering the lack of global water quality data and information, this approach can be implemented elsewhere to improve the knowledge on water quality of lakes and rivers. The use of satellite-based approach could be operate for disaster management as mining and industrial disaster.	12.8, 16.10, 17.6, 17.9, 17.18	UNESCO World Water Quality Portal, workshops, political level conference	*CNES, UNESCO, CBLT, AfDB, OFB, IRD*			
Project I.3 - Innovative monitoring of water resources through Earth observation satellites for adaptation to climate change in 4 African Transboundary River Basin – Senegal,	Develop an innovative water resources monitoring based on	Support the building knowledge and the following of hydrological evolution in the Congo, Senegal,	Strengthen the hydrological information system of the 4 River Basin Organizations for decision mak-	12.8, 16.10, 17.6, 17.9, 17.18	Pilot applications with CICOS and NBA, platform for monitoring flows (at different time and scales), SWOT joint workshops	*AFD, OiEau, OMVS, CICOS, ABN, CBLT, CNES, IRD*			

Congo, Niger and Lake Chad	Earth observation satellites for adaptation to climate change in 4 African Transboudary River Basin (Senegal, Congo, Niger and Lake Chad	Lake Chad and Niger River Basins through "multi-sensor" satellite data. A working group gathering the expertise of French institutions has developed first spatial pilot applications with CICOS (Congo) and NBA (Niger)and future ones are planned with OMVS (Senegal) and LCBC (Lake Chad).These applications integrate both data from classical in situ monitoring networks and satellite altimetry data	ers and users. Develop applications that enhance water information system for biodiversity preservation, water uses and climate change monitoring.						
Project I.4 - Transboundary observatory for water and biodiversity information sharing in Guyana Plateau	Establish a shared governance for transboundary management of water and bioidiversity data and information	Technical exchanges for 2 transboundary basins (Oyapock, Maroni)	Creation of a joint observatory for water and biodiversity data monitoring.	12.8, 16.10, 17.6, 17.9, 17.18	Technical workshop, data exchange platforms, political level conference	*Brazil ANA, Surinam Anton de Kom University, Office de l'Eau de Guyane*	Yes, replicability of the Guyana example at least for other shared rainforest ecosystems	Addressing Latin American Amazon region	
Project I.5 - Dissemination of INBO/UNESCO Handbook on Water Information Systems at basin scale	Disseminate principles of shared data management	INBO/UNESCO handbook presents recommendations and case studies for sounder shared Water Information Systems	Enhanced knowledge sharing processes, enhanced shared governance of data management	12.8, 16.10, 17.6, 17.9, 17.18	Pilot projects for data sharing and associated services; dissemination and training initiatives	*INBO network and partners*	Yes, for subnational as well as transboundary basin organizations	The handbook addresses all regions of the world. Following actions open and relevant worldwide	
Project I.6 - The African Water Information System (AWIS): developing data and information	Building capacity on wa-	Update of the shared information platform	*New AWIS webplatform*	12.8, 16.10, 17.6, 17.9, 17.18	UNESCO WINS Platform implementation, data sharing workshops	*ANBO, UNDP, GEF, UNESCO, OiEau*	Yes	Africa	

sharing in Africa	ter data production and sharing at African level	dedicated to water resources management for African basin organizations	*online, synchronization African water data with the global platform of UNESCO*						
ACTION II: From research communities to end-users and citizens, launching new cooperative networks Overall Objective: ● Addressing specific issues of specific territories or water users through enhanced and more cooperative experience sharing tools and approaches ● Disseminating the results of research and innovation projects, involving research communities and water users, including cities ● Involving all actors, including the public at large, using social networks ● Raising awareness through more intense and cooperative information processes Overall purpose and expected results: Overall SDGs Alignment: Coherence with other Priorities:									
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Project II.1 - Develop scientific evidence to inform policies and practices to sustain low-cost, on-site water supplies and sanitation systems in urban Africa and strengthen the capacity of individuals and institutions to conduct this vital research	*AfriWatSan is a 5-year capacity-strengthening (2015-2020) and cross-disciplinary research collaboration tackling the fundamental challenge of sustaining low-cost water supply and sanitation systems that conjunctively use the subsurface as both a source of safe water and a repository of faecal wastes.*	*AfriWatSan is establishing a Network of Urban Groundwater Observatories comprising a town (Lukaya, Uganda), a city (Kisumu, Kenya), and a mega-city (Dakar, Sénégal). Each conurbation is underlain by a shallow aquifer comprising unconsolidated alluvium and/or volcano-sedimentary sequences that provide a low-cost source of safe water and relies substantially on the use of on-site sanitation.*	*Capacity building* *• (PhD, technicians)* *New knowledge & data* *• Characterisation of urban land-use and subsurface environments in a town, city and mega-city;* *• Assessed performance of on-site and small-scale urban sanitation as well as faecal waste management;* *• Development of groundwater models to support integrated water resource management and urban groundwater governance;* *• Identified relationships among*	12.8, 16.10, 17.6, 17.9, 17.18		*Un. Cheikh Anta Diop, Dakar Sénégal, Un. Nairobi, Kenya, Un. Makerere, Kampala, Un. College London, London, GB, Royal Society, London, UK aid*			

			health outcomes, sanitation and public water supplies; *• Translation of research outputs into implementable policies.* *New tools & partnerships*						
Project II.2 - Afrialliance : Boosting and matchmaking research & innovation needs and solutions for preparedness to climate change in Africa	Joining forces to share knowledge, strengthen capacity and generally accelerate innovation to better prepare Africa to meet future climate change and water security challenges	Identification of innovation needs and solutions	Knowledge hub, policy briefs, social innovation factsheets	12.8, 16.10, 17.6, 17.9, 17.18	Identification of innovation needs and solutions	*IHE Delft, ICLEI Africa, ANBO, AfWA, Waternet, etc…*	Yes	Africa, Europe	
Project II.3 - Create a network for mutual education and data, good practices and experiences exchange between civil society stakeholders in sustainable development and lifestyles	Create, from digital platforms, networks of civil society stakeholders for the exchange of knowledge, data , good practices and experiences aimed at sustainable development and lifestyles	Spreading relevant, accurate and successful information, raising awareness among digital communities, improving international cooperation, expanding access to science, technology and innovation	Promote international cooperation (north-south, south-south and triangular) in a more simple and organic way, and finally, it will allow maintaining a history of each of these exchanges, which will translate into the ability to access information timely.	12.8, 16.10, 17.6, 17.9, 17.18	Creation and development of high-quality and relevant content based on the knowledge, experiences, data and good practices of stakeholders in a simple and easy-to-learn format that can be viralized using social media platforms.	*Youth United in Action, Latin American and the Caribeean Youth Parliament for Wate*			
Project II.4 – Creation of a Basin Islands Network	Better answer to specific and identified needs and gaps of “basin islands” or other similar territories	Exchange of experiences and good practices, development of adapted tools, production of recommendations, promotion of training programs for executives and	Dedicated tools and exchange of practices addressing the specificities of island basins.	12.8, 16.10, 17.6, 17.9, 17.18	Workshops, conferences and training sessions, electronic/data exchanges and publication of reports	*Office de l’Eau de Martinique, INBO*	Yes, worldwide replicability…for insular contexts !	Focus on the Caribean region, but global ambition	

		staff of member basin organizations as well as for local elected officials							
ACTION III: Promoting capacity development through enhanced exchanges and training Overall Objective: ● Structuring capacity development and experience sharing benefits through the dissemination of cooperative peer-to-peer/peer review approaches ● Enhancing cooperation among educative and academic partners interested in the development of more "application oriented" exchanges and teaching tools and practices ● Raising awareness on the importance of educative and training capacity development Overall purpose and expected results: Overall SDGs Alignment: Coherence with other Priorities:									
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Project III.1 - Support water cooperation to improve water resources management in 6 countries of Eastern Europe and Caucasus	Assisting **Armenia, Azerbaijan, Belarus, Georgia, Moldova, and Ukraine** in bringing their legislation and practices closer to European Union policy in the field of water management, with a main focus on the management of transboundary river basins.	Legislation, policy development and institutional strengthening, laboratory and monitoring systems, River Basin Management Plans, public awareness, communication, and stakeholders involvement.	River Basin Management Plans are developed; The water sector is equipped with the necessary human and technical capacity; The water sector has an enabling legal and regulatory framework	12.8, 16.10, 17.6, 17.9, 17.18	Development and implementation of pilot river basin management plans, building on the improved policy framework, strengthening local capacities and ensuring a strong participation of local stakeholders	*OiEau, UBA, OECD, UNECE*	Yes, for operational implementation of transboundary governance	Eastern Europe, Caucasus	
Project III.2 - Starting a North-South-South-network to promote higher education programs in water-related disciplines with a strong focus on application (i.e. practical training, teachers have practical experience, internships etc.)	Higher education to disciplines related to water resources (hydrology, water resource management, agriculture etc.) is rather often characterized by a	With strong focus on application, the aims of the network are (1) to emphasize the importance of training in applied sciences, (2) to learn from each other by exchange of people and ideas, and (3) to develop mutual training as courses, programs or other.	*Network of partners interested in higher education with a strong focus on application as a platform to exchange people and ideas and develop mutual activities (course, programs etc.) in a North-South-South partnership.*	12.8, 16.10, 17.6, 17.9, 17.18		*Hochschule Weihenstephan-Triesdorf and partners*			

	strong academic focus and science centered. Assuming the quality of this kind of training is in general rather high it is not demand-driven and fails quite often to meet the needs of real world problems. This might be especially of importance for developing and emerging countries where hands-on approaches and solution-focused training is needed.								
Project III.3 - Capacity development for water and sanitation jobs and consolidation of water training centers	Support creation and development of sustainable training centers	Reinforce sustainable training capacities in the field of water utilities as well as water resources management	Analysis of new water jobs and related training needs	12.8, 16.10, 17.6, 17.9, 17.18	Enhanced training capacities at local, national or regional levels. Creation of new training centers	*INWTC (International Network of Water Training Centers) and partners*	Yes. North-South and South-South cooperation can be mobilized.	Yes. Involvement of existing or projected training centers from Europe, Africa, Asia, Latin America.	
Project III.4 - Peer-to-peer learning: sharing experiences through peer-review exchanges in order to improve the implementation of European Water Framework Directive	Disseminate and upscale European practices of peer-to-peer exchanges in the field of water resources management	Extensive proposal of peer-to-peer exchanges as useful tools for capacity development	Organizing expert exchanges and visits, assessing and comparing practices	12.8, 16.10, 17.6, 17.9, 17.18	Enhanced dissemination of experiences among practitioners of water resources management	*OiEau, MENBO, INBO*	First circle of the project addressing European stakeholders. More broadly, taking stock of European experiences for world wide initiatives	Yes. Implementation addressing all regions	