

9th World Water Forum

Action Group 2A – Ensure universal access to water (in rural areas)

Action Group 2A is invited to implement activities that will help to ensure universal access to drinking water for rural development, and contribute directly in achieving SDGs 6.1 and 1.4. We propose to articulate our activities (ideas, projects) around 4 themes to contribute effectively in achieving universal and equitable access to safe drinking water in rural areas: (i) Governance and institutional framework for universal access to safe drinking water in rural areas; (ii) Mapping and monitoring data platform; (iii) Sustainable water resources development and technological options for developing growth investments.; (iv) Service delivery models for rural water supply.

A description of each theme is proposed in the table below, an activity can cover more than one theme. We also proposed a template of proposal to be completed to facilitate coordination. **The inclusion of topics such as raising awareness of the importance of water resources, promoting co-responsibility** (inclusion) in its management, and fostering a water culture as cross-cutting themes in each of the actions, is relevant.



ACTION TITLE 1: Governance and institutional framework for universal access to safe drinking water in rural areas In order to provide safe drinking water for all by 2030, policymakers are required to engage sector reforms to create a new framework for governance and enabling environment for assets and services sustainable management. Learning from previous experiences (Implementation of the MDGs) each government should identify adequate reforms and acceleration mechanisms for reaching the SDGs 6.1 and 1.4. These reforms also involve each government's commitment to cover some cost components to ensure affordable cost of access to safe drinking water. There is a pressing need of understanding and guidance to decision-makers and practitioners on how to set up the enabling environment for inclusive water governance. Actions (either at a pilot phase or already underway) on governance and institutional frameworks are welcomed, specifically the ones that refer specifically to the inclusion and participation of women and girls in decision-making regarding water resource management. The incorporation of current International initiatives into project proposal is highly recommended Overall Objective: Enhance the understanding of the choice criteria of governance and financing mechanism for the development and management of DWS infrastructure in rural areas. Overall purpose and expected results: Identify through the proposed projects (consultation phase), the choice criteria of governance and financing mechanism for successful DWS infrastructures development and management projects in rural areas. Decentralization and inclusion of women and girls in governance, as well as international initiatives will be valued. Overall SDGs Alignment: 6.1 and 1.4. Coherence with other Priorities:2B; 2E; 3F **ORGANISATION (S):** Earth Science Center EMAIL ADDRESS: aryaritesh111@gmail.com **CONTACT'S NAME :** Ritesh Arya

PROJECTS INCLUDED	OBJECTIVE	EXPECTED RESULTS	SDGs	IMPLEMENTATION	PARTICIPANTS	REPLICABILITY	REGIONAL	POTENTIAL
In order of priority			ALIGN-		AND	IN OTHER	REPRESENTATIVE-	OVERLAPPING
and level of impact			MENT		STAKEHOLDERS	CONTEXTS	NESS	OR
					REPRESENTATIVE-			COHERENCE
					NESS			WITH OTHER
								AGs



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Project 1 – INVOLVING	Educate and	• Guidelines to	6.1	Earth Scier	e • National and	YES	2B
LOCAL COMMUNITY	Involve the rural	Educate and	6.B	Center	local authorities;		2E
FOR SAFE AFORDABLE	community in	Involve the rural			Private sector		3F
SUSTAINABLE WATER	addressing the	community about			(Consulting		
FOR ALL	water issues	the water issues			firms)		
		and solutions;			NGOs		
		 Decentralize water 					
		supply schemes					

DESCRIPTION AND INFORMATION OF PROJECT 1:

Rural areas have traditional wisdom which has been inherited since time immemorial. Each community has particular problem. Any solution proposed by action group should blend the modern advancement solutions with local problems. The main aim of the proposal will be to educate the rural community about the water issues and involve them in implementing the water solutions. It should be a two-way solution with better coordination between Government and the village communities. The Water solution suggested should be based on proposing water supply schemes which suggest less transportation of water, less dependency on electricity, more use of local water resources including judicial use of groundwater and surface water. Keeping the local water bodies clean from pollution is biggest challenge for providing affordable clean safe free water for all. Cleanliness is the key solution to all water problems. Separate budget for maintaining good sanitation and sewerage works. Will go a long way to provide SAFE FREE SUSTAINABLE WATER to all

I expect that if we follow these guidelines and decentralise the water supply schemes with involvement of the village communities then we can achieve the target of providing affordable drinking water to all in a very short and sustainable way. The water project planned in such a way will give 24x7 clean water at very affordable price which in due course of time will be almost free. The investments made in sewerage and treatment plants are very less in comparison to the money spent on transporting clean water from other sources. If we can add the mantra of CLEAN VILLAGE WATER then our 80-90 % problem is solved.



ACTION TITLE 2: Mapping and monitoring data platform

The availability of data and information on existing asset and water services (infrastructure and operational) in rural areas is a major challenge for assessing the impact of previous interventions, and informing decision-making processes (development of new policies, new water supply services) in order to achieve universal access to safe drinking water. It is so important to explore how best data and information can be collected, analyzed, and presented to support informed decision-making at different levels (local, national, regional), and global monitoring and assessment initiatives. Actions or initiatives in relation to the collection and availability of data and information are encouraged. Overall Objective: **Explore how best data and information can be collected, analyzed, and presented to support informed decision-making from local level and national levels to global levels.**

Overall purpose and expected results: Digital mapping of water supply systems on a web platform (Cloud); Real time reporting of the exploitations of the water supply systems;

Overall SDGs Alignment: 6.1, 6.3, 6.4

Coherence with other Priorities: 4E

ORGANISATION (S) : ANAEPMR					EMAIL ADDRESS: samigan@presidence.bj				
CONTACT'S NAME : S	CONTACT'S NAME : Sylvain Migan								
PROJECTS INCLUDED In order of priority and level of impact	OBJECTIVE	EXPECTED RESULTS	SDGs ALIGN- MENT	IMPLEMENTATION	PARTICIPANTS AND STAKEHOLDERS REPRESENTATIVE- NESS	REPLICABILITY IN OTHER CONTEXTS	REGIONAL REPRESENTATIVE- NESS	POTENTIAL OVERLAPPING OR COHERENCE WITH OTHER AGs	
Project 1 – eTRANSFORM RURAL WATER SUPPLY SECTOR : Benin Case	Water schemes asset control, Operation & Maintenance and service delivery monitoring using ICT and artificial intelligence.	 Digital mapping and folding of all information on existing water supply systems components, as well as their operation and maintenance 	 Digital mapping of 649 existing water supply systems on a web platform (Cloud); 	6.1, 6.3, 6.4	• ANAEPMR	 National and local authorities; Private sector (Consulting firms) Financial partner NGOs 	Yes	4 E	



		trough web-	Real time					
		based platform.	reporting of					
		The platform	operation &					
		would serve to	maintenance					
		manage the	of the existing					
		customer	piped water					
		portfolio, and to	schemes;					
		establish at						
		different						
		geographic						
		scale, data on						
		the number of						
		systems, the						
		rate of service,						
		the number of						
		reservoirs, the						
		number and						
		categories of						
		energies, the						
		number and						
		different types						
		of service						
		points, the						
		length and the						
		different						
		categories of						
		network.						
Project 2 – DIGITAL	Unsure the	Allow from a web	Integrate in a	6.1, 6.3, 6.4	ANAEPMR	National and	Yes	4 E
MANAGEMENT OF	uniqueness and	platform and with	unique and			local		
THE PLANNING OF	homogeneity of	maximum	useful web			authorities;		
TECHNICAL	all the	efficiency to :	platform :			Private		
STUDIES AND	knowledge and	• Organize and	 data on the 			sector		
SUPERVISION OF	performance	monitor the	components			(Consulting		



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THE	monitoring	contract of the	of existing		firms;	
CONSTRUCTION OF	services of	water systems	DWS		Construction	
DRINKING WATER	water systems	operation	systems		companies)	
SYSTEMS IN BENIN		companies;	• data on		 Financial 	
		• Plan and	future DWS		partner	
		monitor the	systems		NGOs	
		execution and				
		acceptance of				
		construction				
		work for new				
		systems and				
		upgrade of				
		existing				
		systems;				
		 Add value to all 				
		water systems				
		at all times;				
		 Plan the renewal 				
		of water				
		systems				
		infrastructure.				
DESCRIPTION AND IN	FORMATION OF F	PROJECT 1 and 2:				

Decision-makers and managers of DWS projects often face the challenge of the availability of useful data on DWS in rural areas, and their operation. To meet this challenge, and succeed in giving universal access to drinking water in an equitable way to the rural populations of Benin, the government of Benin through the ANAEPMR, engaged based on DWS assets inventory in rural areas in 2019, the implementation of (i) of digital documentation of existing assets, and (ii) digital management of technical studies and monitoring of the execution of drinking water supply works. The implementation of the project allows the monitoring of DWS and operators performance of, and provide a data room in form of interactive dashboards available at different levels (the national, departmental, municipal, and local). The tool is organized to ensure the automated updating of DWS assets data from the technical design studies phase, until their completion and final acceptance.



ACTION TITLE 3: Sustainable water resources development and technological options for developing growth investments. Sustainable water resources development and technological options for developing growth investments. In many water supply projects, the use of protected groundwater is preferred than the unprotected surface water. In Africa, groundwater provides about 75% of Africa's domestic water demand. However, the variability of the boreholes yields according to hydrogeological contexts, the increasing number of sources of pollution, and the increasing rainfall reduction (Climate change) are more frequently challenging the protection and sustainable exploitation of aquifers in some parts of the world. Many countries still need to make efforts to develop adequate knowledge of groundwater resources, in order to benefit from their full exploitation potential and ensuring not only continuous safe drinking water services, but also environmental sustainability. Prior to DWS projects' implementation, diligence has to be given to the assessment of the potentiality of groundwater and the risks associated with technological options, with emphasis on resilience of services to climate change. These are even more applicable to governments and agencies that are abandoning simple water supply technologies (hand pumps) for piped based supply systems (including motorized pumping, a storage tank, transporting water by pipelines to service points). Particular attention to the impact of the choice of technology, on the acceptability of the cost (affordable) by the beneficiaries, is important. Also, "nature-based solutions" such as rainwater harvesting are being promoted by international initiatives to overcome technological challenges related to bringing water infrastructure in rural isolated areas, and especially those located in remote regions. Overall Objective: Propose initiatives to overcome technological challenges related drinking water infrastructure in rural areas. Overall purpose and expected results: demonstrate et recommend the suitability of technological options in line with sustainable water resources management objectives. Overall SDGs Alignment: 6.1; 6.A Coherence with other Priorities: 4E; 3C **ORGANISATION (S)**: Earth Science Center EMAIL ADDRESS: harrison.matti@easy-h2o.org **CONTACT'S NAME :** Harrison Kwame Matti EXPECTED IMPLEMENTATION PROJECTS **OBJECTIVE** SDGs ALIGN-PARTICIPANTS REPLICABILITY REGIONAL POTENTIAL INCLUDED RESULTS MENT **IN OTHER REPRESENTATIVE-OVERLAPPING** AND In order of priority **STAKEHOLDERS** CONTEXTS NESS OR and level of impact **REPRESENTATIVE-**COHERENCE NESS WITH OTHER AGs



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Project 1 - SUPPLY	Partnership	• To highlight the	 Partnerships 	6.1;	• Easy Water for	National and	3C
OF WATER	between	importance of	for action	6.A	Everyone	local	4E
FILTRATION	Smaller and	synergy	between			authorities;	
STATIONS TO	Larger Water	between Small	Smaller and			Private	
COMMUNITY THAT	Enterprises to	Water	Larger			sector	
HAVE ACCESS TO	supply	Enterprises and	Water			(Consulting	
CONTAMINATED	appropriate	Large Water	Enterprises			firms)	
WATER SOURCES	technology for	Enterprises in	• A document			NGOs	
	different rural	meeting WHO	on water				
	settings	standards for	technologies				
		drinking water.	and				
			mapping of				
		• Mapping of					
		SWEs in country					
		and continent,					
		to see how					
		technologies					
		can be merged					
		or used at					
		different rural					
		settings					
DESCRIPTION AND IN	FORMATION OF F	PROJECT 1:					

To synergize operations, partnership is necessary for SWEs with larger Water Enterprises. In areas where large technologies are not possible SWEs can should be engaged to take up the task in providing water at the nation and WHO quality standards.

Conscious efforts must be made to map SWEs in country and continent, to see how technologies can be merged or used at different rural settings.

One document on water technologies available in countries and on the continent. This will provide an opportunity to for organizations to learn from each other and avoid the duplication of efforts and enhance cost management on projects. This will ensure that the appropriate technology is applied in different settings



ACTION TITLE 4: Service delivery models for rural water supply

Universal access to safe drinking water cannot be limited to the development of infrastructure (drilling, pumping stations, water tower, pipelines, etc.), but must also be extended to qualitative service that meet expectations. Unlike in urban areas, professional management of public water services in rural areas is not common.

Globally, 30% of people do not have access to safely managed DWS. The management of services is often associated to many risks, without suitable contract that accommodates compliance with contractual requirements and comprehensives capital and operating expenses.

Regardless of the choice of water resource, technology or investment, the continuity and sustainability of access to DWS in rural areas depend on the service delivery models (assets and service management). Actions that highlight the effectiveness of specific water management model in rural areas, especially the co-responsibility in the water management are relevant.

Overall Objective: Assess the effectiveness of different service delivery models for rural water supply.

Overall purpose and expected results: Corollate the Service delivery models with sustainable DWS in rural areas

Overall SDGs Alignment: 6.1 and 1.4.

Coherence with other Priorities:2B; 2E; 3F

ORGANISATION (S) :					EMAIL ADDRESS:				
CONTACT'S NAME :									
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Project 1		•			•				
DESCRIPTION AND INFORMATION OF PROJECT 1:									

