2E. Engage and Empower rural communities to be the drivers of social-economic development through water

OTS 2E2 : Thursday 24 March, 10h45-12h15, salle 6

NEW PARADIGMS TO MAKE PRODUCTIVE WATERS

Ordinary Thematic Session number 2, from the Group 2E :

Media-friendly session Title/ Titre de la session adaptée aux médias *	New paradigms to make productive waters for farmers
Media-friendly session summary (3-5 sentences)/Résumé de la session adapté aux médias (3-5 phrases) *	The overall objective is to empower smallholder farmers through new paradigms to save water by using dirty rainwaters, domestic wastewaters or saline waters. These actual abandoned waters could be used to make equitable the access to productive waters. This session will provide tools to turn saving waters into a wealth-producing resource. Reasoned access to rainwater and wastewater represents a major innovative economic asset to empower small agriculture in rural and peri-urban systems.
Keywords to describe the session's main elements (5 keywords max.)/ Mots-clés pour décrire les principaux éléments de la session (5 mots-clés maximum) *	Nature-Based Solution, Productive water, Circular economy, Saving waters, Food/Energy/Health nexus, Rainwater, Wastewater, REUSE
Description of the session (250 words max.). It should include objectives and expected outcomes and/or questions that the session intends to answer/ Description de la session (250 mots maximum). Elle doit inclure les objectifs et les résultats attendus et/ou les questions auxquelles la session se propose répondre. *	How can we use efficiently wastewaters, dirty rainwaters or saline waters for green production to save water and to empower the smallholders? Currently, the management of domestic wastewaters, dirty rainwaters and saline waters remains a major global challenge, in addition to feeding the poorest populations, or stopping soil degradation occurring through the rapid food demand and mitigating the environmental quality of our peri-urban areas. This session aims at creating opportunities for paradigm shifts and technological innovations to make these actual abandoned waters an economic and ecological asset for green production, for food and human health, and for the poverty alleviation. It will help to ensure universal access to water and sanitation through safe and efficient agricultural use, to reduce water and soil pollution, unsanitary neighborhoods, and to campaign for a local circular economy. Finally, it will provide to small-scale farmers in rural and peri-urban areas of new economic power through better use of water resources. All the SDGs are concerned by this transversal action. The achievement of all the goals will contribute de facto to SDGs16 AND 17, "peace, justice, and effective institutions" and "partnership for the achievement of the goals". The expected result of this session is to synergize the multiplicity of possible partnerships to make concrete actions and to strongly apply the advocacy on saving water as a vector of economic wealth, human well-being and ecological sustainability in the rural and peri-urban world.

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Organization name and type/Nom et type d'organisation *	IRD (French National research institute for sustainable development), French public research institution
Country/Pays *	France
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Duration of the session (max. duration allowed is 90 minutes)/ Durée de la session (la durée maximale autorisée est de 90 minutes) *	90 mn

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Draft session schedule (expected times for presentations, panel discussions, etc.)/ Projet de programme des sessions (heures prévues pour les présentations, les discussions de groupe, etc.) *	- Welcome and introduction [10'] - 6 introductions of 5 mn based on examples [30'] - Discussion Panel on questions raised in the assembly [45'] - Key messages and Conclusion [5']
Expected panellists / speakers / moderators/ Panélistes / intervenants / modérateurs attendus *	Speakers: - **Laura Le Floch (SIF, France: Gaza)** Improving water resource management for domestic and agricultural use through wastewater recycling in Gaza *Amélioration de la gestion des ressources en eau pour l'usage domestique et agricole à travers le recyclage des eaux usées à Gaza* - **Pascal Breil (INRAe, France: Egypt)** Wastewater reuse and rainfall harvesting in peri-urban area of arid countries to recover smallholder food crop production (Alexandria city, Egypt) - **Michaël Orange (TPE FiltrePlante, Sénégal) et Pierre-Yves Rochat (UN-HCR, Sénégal)** Assainissement durable et réutilisation des eaux usées pour la création d'espaces verts dans les camps de réfugiés - **Rémi Lombard-Latune (INRAe, France)** Participatory approach for implementing the multi-barriers approach promoted by WHO - **Maxime Therrillion (MASCARA, France: Sénégal)** Technologie OSMOSUN, dessalement 100% solaire pour l'irrigation - **Mohamed Nadah (SUEZ International, France)** Smart Village : développer un environnement socio-économique durable pour les populations rurales Panelists: - **<u>Moderator</u>: Didier Orange (IRD, Sénégal), confirmed** - **Laura Le Floch (SIF, France: Gaza), confirmed** - **Pascal Breil (INRAe, France: Egypt), confirmed** - **Michaël Orange (FiltrePlante, Sénégal), confirmed** - **Pierre-Yves Rochat (UN-HCR, Sénégal), confirmed** - **Rémi Lombard Latune (INRAE, France), confirmed** - **Maxime Therrillion (MASCARA, France: Sénégal), confirmed** - **Mohamed Nadah (SUEZ International, France), confirmed** - Alain Tidière (Corail-Développement, France) - **Ludovic Le Contellec (Améten, France, Mauritanie), confirmed** - **Oscar Alejandro Luna Alvarez (Young Internationalist, Venezuela), confirmed**

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CGs contributions received that will be included in the session (with a word or two about how they are included)/CGs Contributions reçues qui seront incluses dans la session (avec un mot ou deux sur la façon dont elles sont incluses)	En lien avec les travaux du GA 1F, nécessité d'accroitre la connaissance des populations sur les effets du changement climatique et sur les techniques d'adaptation, respectueuse de l'environnement. En lien avec les travaux du GA 1A et GA 2A, affirmer l'eau comme étant un bien commun et un droit humain, et garantir l'approche basée sur les droits humains dans la gestion de la ressource. In connection with the work of the GA 1F, need to increase the knowledge of the populations on the effects of climate change and on adaptation techniques, respectful of the environment. In connection with the work of GA 1A and GA 2A, affirm water as a common good and a human right, and guarantee the approach based on human rights in the management of the resource.
Potential overlaps with other OTS/Possibles chevauchements avec d'autres OTS	
Missing stakeholders/Parties prenantes manquantes *	
Intended audience and expected minimum and maximum number of participants/ Public visé et nombre minimum et maximum de participants attendus *	50 people All stakeholders concerned by the nexus Food/Health/Energy/Water saving. It will attract all people working on sanitation&health, agronomy, ecology, hydrology, ecohydrology and nature-based solutions within academic and civil arenas, in order to reinforce the cooperation between actors of the Research and the Development.
Session Format/Logistics required (e.g. preferred room type, translation, audio, and video facilities, recording, stationery, printed material, special equipment, etc.)/ Format de la session/logistique requise (par exemple, type de salle souhaité, traduction, installations audio et vidéo, enregistrement, papeterie, matériel imprimé, équipement spécial, etc.) *	Translation, audio, and video facilities, recording, stationery, (and printed material if possible)
Expected outcomes, impacts, and follow-up linkages with events and initiatives after the Forum/Résultats attendus, impacts, et liens de suivi avec les événements et initiatives après le Forum *	This session is intended to be an advocacy for the paradigm change on water saving actions to ensure sustainable intensification of agriculture and food and nutritional security in West Africa. The key political message is : Empower smallholder farmers through new wastewater and rainwater use paradigms to facilitate sustainable and equitable the access to productive waters and reduce withdrawals from the water table for irrigation needs and improve the environmental factors, in respect of the following concrete political actions :

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	1. Advocate for the improvement of global and local water governance in conjunction with structures dealing with food and agriculture issues, through the creation of an intergovernmental structure on Water&Food as part of the UN and approved by Member States. 2. Accelerate actions for autonomous sanitation and recovery and reuse of domestic wastewater and dirty rainwater to protect water resources at local level for more and better productive waters and green production. 3. These may include: Adjusting duties/taxes on relevant saving water technologies and practices; Incorporating training on sustainable technologies and practices for saving water use into agricultural curricular; Widely promoting, with extension and demonstrations, the use of sustainable saving water technologies and practices through innovative education in the universities (Problem Based Learning #PBL, Living Lab #LL, Nature Based Solutions #NBS); Providing 'smart subsidies' to increase the uptake and use of relevant smallholder saving water technologies and practices; Providing 'loan guarantees' to financial institutions that finance smallholder saving water technologies; Creating new policy frameworks and/or institutions that promote, monitor and/or regulate the sustainable use of local water resources, etc. 4. Introduce country level policies, education, structures and funding that promote the widespread up-take and use of saving water technologies that enable smallholders to sustainably use dirty surface waters and saline waters to irrigate their farms and increase their year-round yields and incomes.