

9th World Water Forum, Dakar 2022

Thematic Session Summary Template

Action group:	1B: Improve water quality and waste management
Session code:	1B3
session title:	Apply Nature-Based Solutions including green infrastructure to improve water quality and resources
session summary	<ul style="list-style-type: none"> • The need for solutions in managing water resources is obvious and strong from local to global context, which is vital to tackle emerging water security challenges caused by population growth and climate change. • Nature-based solutions can play an important role in improving the supply and quality of water and reducing the impact of natural disasters. 'Green' infrastructure, as opposed to traditional 'grey' infrastructure, focuses on preserving the functions of ecosystems, both natural and built, and environmental engineering rather than civil engineering to improve the quality of water. • The projects gathered under action 3 will concentrate on nature-based solutions and green infrastructure: how they can improve the quality of water and resources. Action 3 will show in many ways how impactful those solutions can be in project management, both in wastewater treatment and for ecosystems.
Keywords	<ol style="list-style-type: none"> 1) Nature-based solutions, 2) Green infrastructure, 3) Water quality and resources, 4) Climate change 5) Ecosystem services
Description of the session	<ul style="list-style-type: none"> ▪ The objective of this action focusing on Nature based solutions is to show how green solutions and infrastructure can

	<p>be used to offer as a means of moving beyond business-as-usual to address many of the world’s water challenges, including water quality while simultaneously delivering additional benefits vital to all aspects of sustainable development.</p> <p>*A particular focus is given to the impact of nature-based solutions on water quality, not to duplicate the work of groups focusing on NBS and ecosystems.</p> <ul style="list-style-type: none"> ▪ Projects gathered under this session will concentrate on nature-based solutions and green infrastructure: how they can improve the quality of water and resources. ▪ Thus, it will show in many ways how impactful those solutions can be in project management, both in wastewater treatment or for ecosystems with evidence and interaction opportunities ▪ The outcomes of session will contribute to SDG6, particularly achieving Target 6.2, 6.3, and 6.b, including the connection to SDG13.
Projects included	<ul style="list-style-type: none"> ▪ International Water Resources Association (IWRA) and Technical University of Cologne, Germany
Other associated organizations and stakeholders	<ul style="list-style-type: none"> • GWOPA/UN-Habitat • UNESCO IHP • AFD • AJPEAS, Sénégal • Ministry of Economy, Palestine • OECD • Suez • World Youth Parliament for Water • Youth for the Rhine • drinkPani
Duration of the session (<p>90 minutes - <i>(About 45 minutes each - for two sections, including intro and closing)</i></p>
Draft session schedule	<p>Welcome and Introduction (about 10</p>

minutes)

1. Presentations on proposed projects :

About 7/8 minutes presentation time for each project (max. 15 mins)

- a. *Project 3.2 - AFD – France: Implement local Nature-based solutions for domestic wastewater treatment (Morroco)*
- b. *AJPEAS (Youth Inclusion) – Senegal : Treatment and recovery of faecal sludge and wastewater for the ptotection of wetlands in Niayes,Dakar*

Video Information/Pitch (5-8 minutes) :
GWOPA/UN-Habitat- The Power of Peer-Partnerships to advance NBS/resilient water and sanitation service

Q/A collectively after the first round - 15 minutes

2. Panel discussion (followed by round table if possible with the space and resources)

Brief introduction of projects from panelists *(4/5 mins each – max 15 mins)*

- a. *Suez – Case Study on the work in the south of France to recharge the coastal water tables to avoid salt water intrusion*
- b. *Project 3.4 – Ministry of Economy Palestine – Removal of Nitrate from drinking water using bio filters*
- c. *OECD – Experiences on Circular Economy and Nature-Based Solutions – A case study of NBS approach- Water Governance in Peru*

Facilitate round table discussion on the challenges, opprtunities, and contribution to SDG6, in relation to the projects and suggestions of facilitators *(20 minutes)*

	<p>Closing the session with short summary/reflection/remarks (<i>about 5-10 minutes</i>)</p>
<p>Expected panellists / speakers / moderators/ Panélistes / intervenants / modérateurs attendus CGs ontributions 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)</p>	<p>Moderator : TH Köln-Technical University of Cologne, Germany ; drinkPani, Nepal (Amrita Gautam)</p> <p>Speakers:</p> <ol style="list-style-type: none"> 1. Project 3.2 AFD – France - (M. El Hidaoui Abdelghani from ONEE, Morocco) 2. AJPEAS (Youth Inclusion) – (Mbaya Isaac Diop, Senegal) <p><i>Video Message/Pitch – GWOPA/UN-Habitat (Franziska Volk, Germany)</i></p> <p>Panelists/Facilitators:</p> <ol style="list-style-type: none"> 1. Suez - France (Alexandre Duzan, general director of Sondalp) 2. OECD - Case Study Peru (Oriana ROMANO) 3. Project 3.4 – Ministry of Economy Palestine - (Mr. Salah El Sadi)
<p>Expected outcomes, impacts, and follow-up linkages with events and initiatives after the Forum</p>	<ul style="list-style-type: none"> - Projects gathered under this session will concentrate on nature-based solutions and green infrastructure: how they can improve the quality of water and resources. - Thus, it will show in many ways how impactful those solutions can be in project management, both in wastewater treatment or for ecosystems with evidence and interaction opportunities - To reflect on the experiences, learnings, achievements and for possible new initiatives, Report (including video format if possible) and Policy Brief will feed in and provide the foundation. - Then, possibilities will be enhanced for project partnerships between Organizations/Stakeholders from planning to implementation in real ground - The outcomes of session will contribute to SDG6, particularly achieving Target

	6.2, 6.3, and 6.b, including the connection to SDG13.
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