

#### 3ème Forum Méditerranéen de l'Eau Processus Régional Méditerranéen pour le 8ème Forum Mondial de l'Eau

Le Caire, 23 janvier 2018



the 3<sup>rd</sup> Mediterranean Water Forum Mediterranean Regional Process for the 8<sup>th</sup> World Water Forum Cairo, 22-24 January 2018

#### **WG3 - DEVELOPMENT:**

WATER – ENERGY – FOOD – ECOSYSTEMS NEXUS

Summary report

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# Working Group 3 Development: Water, Energy, Food, Ecosystem Nexus The context

- Water, food, energy and ecosystems are essential for human well-being, poverty reduction and sustainable development. They are interlinked through a nexus of natural, institutional, economic and social frameworks. The Water-Energy-Food-Ecosystems Nexus approach was initially introduced in the natural resources management agenda to facilitate enhancement of water, energy and food security while preserving ecosystems and their functions and increasing climate resilience, by reducing trade-offs and shifting towards more sustainable consumption patterns while increasing efficiency, building synergies and improving governance across sectors.
- A Nexus approach to sectoral management, through enhanced technical assessment, policy dialogue, investment mobilisation, replicable applications, collaboration and coordination, is necessary to ensure that **co-benefits and trade-offs** are not only considered but also that appropriate safeguards are put in place to mitigate their detrimental effects. Importantly, **governance improvements are a cornerstone** for any reform process and policy design and implementation.
- This is particularly relevant in the case of the **Mediterranean**, where the **regional characteristics** render the implementation of an integrated approach somewhat challenging: water scarcity, natural and financial resources unevenly distributed across space and time, uncontrolled population growth coupled with rapid urbanisation trends, migratory movements often taking place under dramatic conditions, observed impacts of climate change, fast-changing consumption patterns, etc.

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### **Working Group 3**

## Development: Water, Energy, Food, Ecosystem Nexus The Objective

- ✓ To shed light on the context and the challenges of applying the nexus framework in the Mediterranean context.
- ✓ To identify, through an interplay of selected case studies (based on existing and ongoing work at national and transboundary levels) and a regional knowledge and experience sharing, tangible recommendations for actions (including the demonstration of technology transfer options, as applicable).
- ✓ To suggest decision support tools for prioritizing solutions at different geographical scales based on nexus analysis and assessments.

Session agenda:			
Session Duration	23 January 2017 14:00-16:00		
Order	Estimated lead time* (min)	Description of items/presentations	Confirmed speakers
Opening	20	Introductory remarks and setting the stage on the nexus approach in the Mediterranean context  Nexus in the UfM Water Agenda  Short Q&As	Anthi Brouma (GWP-Med) & Juan Ojeda (Typsa) Miguel García-Herraiz Roobaert (UfM Secretariat)
Panel Discussion	70	<ol> <li>Presentations and insights from selected case studies:</li> <li>EcoPeace Middle East and the Konrad Adenauer Stiftung (KAS) - the vision of a Water-Energy Nexus between Jord an, Palestine and Israel</li> <li>Groupe des Eaux de Marseille (France) - concrete solutions from smart meter to smartgrids</li> <li>SONEDE (Tunisia) - the use of solar energy in the desalination of water</li> <li>NWRC (Egypt) - Role of small dams towards achieving sustainable development</li> <li>Confederación Hidrográfica del Guadalquivir (Spain) - Irrigators' communities. The Spanish model for an efficient collective administration of the Nexus</li> <li>GWP-Med Nexus programme: Nexus in the transboundary context</li> </ol>	Alain Meyssonnier Kamel Fethi Ashraf Al Asheal Salvador Soto
The way forward	15	Discussion on future actions	Plenary
Closing	5	Conclusion and next steps	Anthi Brouma (GWP-Med) & Juan Ojeda (Typsa)

#### **Key Discussion Points - Messages to take to Brazilia**

- Provide targeted support, including structural aspects, for institutions to tackle the difficulties of handling complexity relating to the nexus application
- ✓ Pay attention to the allocation of responsibilities of Ministries and how they affect the nexus application (e.g. covering both energy and water)
- ✓ Need to develop monitoring framework to evaluate the level of success when implementing nexus applications
- ✓ Multiple fields of nexus application exist useful to have an ex-post analysis of specific examples to strengthen the case of the nexus
- ✓ Role and importance of focusing on governance of water
- ✓ Benefits from nexus application multiple: from security of sectors to social-economic and environmental, including job creation
- ✓ Technology can offer options, but cannot confront all challenges of meeting sustainable development objectives
- ✓ Need to include different stakeholders from all levels, ensuring their active involvement through appropriate legal and regulatory frameworks
- ✓ Important to think beyond the water box and consider options for integrating the integrated



Thank you for your kind attention

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