

NEWAVE

Innovative Training Network for water governance paradigm shifts

Wednesday 26 August | 11:00 – 11:45

SIWI WORLD
WATER
WEEK

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Session

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Session Schedule

Time	Activity	Chair(s)
11:00 - 11:05	Welcome and introduction	Caterina Marinetti; Jampel Dell'Angelo
11:05 - 11:15	NEWAVE Theoretical Framework	Jampel Dell'Angelo
11:15 - 11:20	NEWAVE Training Programme	Erick Velazquez
11:20 - 11:35	Interactive Discussion	Moderator: Caterina Marinetti
11:35 - 11:40	Wrap up and closing	Caterina Marinetti; Jampel Dell'Angelo

Introduction to the NEWAVE Network



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NEWAVE 'Next Water Governance':

Marie Skłodowska-Curie Innovative Training Network (ITN)



Funded by the Horizon 2020
Framework Programme of the
European Union

NEWAVE aims to support the career development & training of researchers - with a focus on innovation skills - through international & intersectoral mobility.

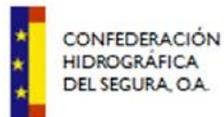
NEWAVE Host Organisations



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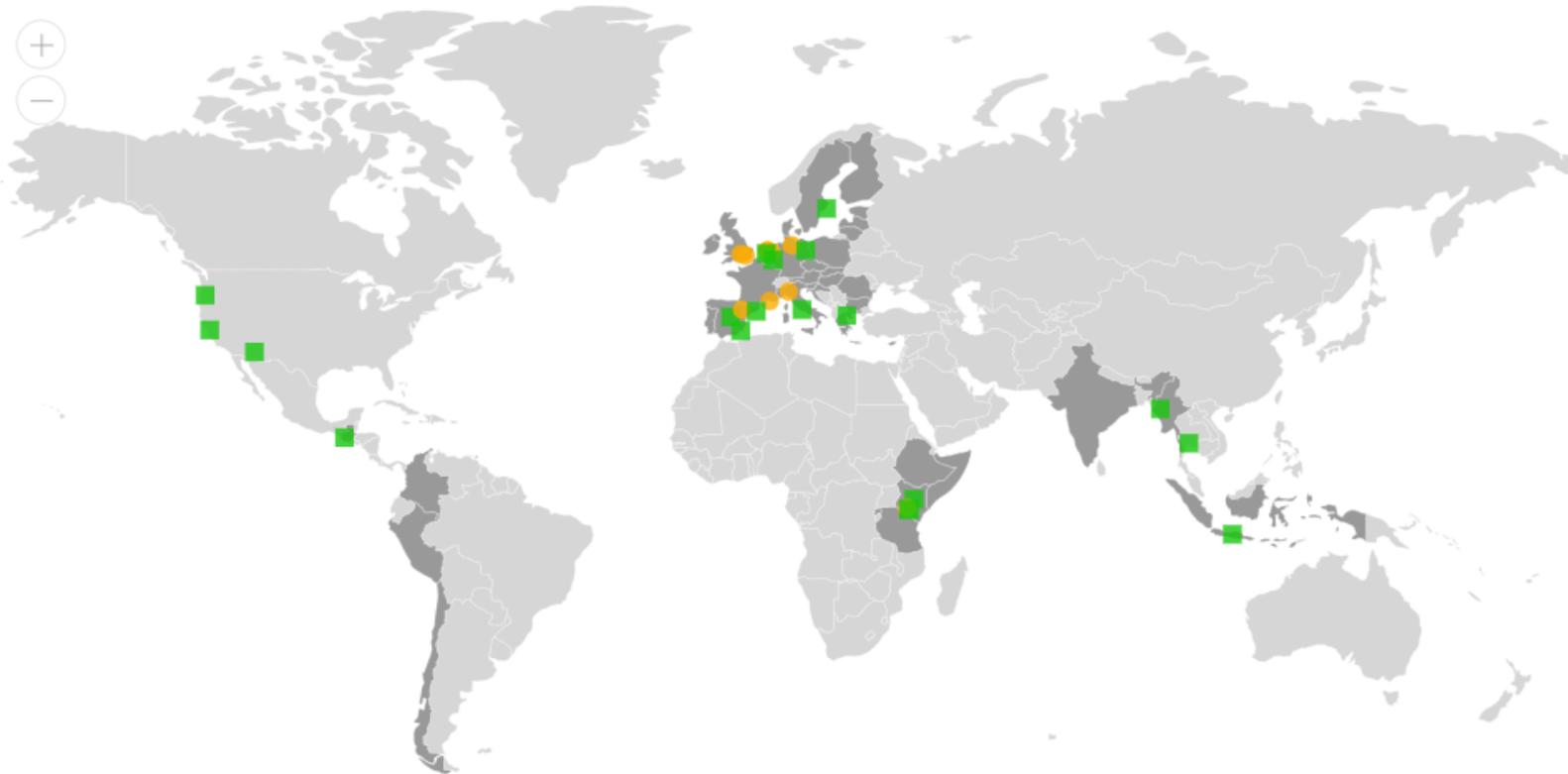
NEWAVE Partners



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Global span of members



- **Beneficiaries locations**
- **Partners location**

WGIAtlas

- Conflict Nexus
- River Politics
- Water and Migration
- Drought Mitigation
- Urban Water
- EU Water Law
- Knowledge co-production
- Water and Mining
- Water Consultancies
- Re-commoning
- Governance Models
- Informal Markets
- Urban Governance
- Corruption
- Water Finance

JS map by amCharts

Foundations

This project is based on the awareness that water governance is a:

- multigenerational,
- politically sensitive,
- socio-environmental challenge

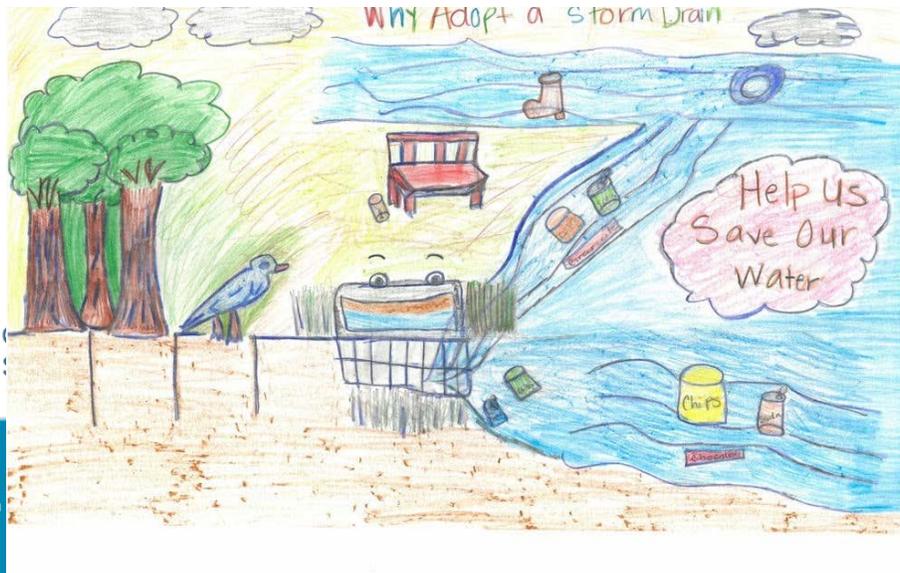
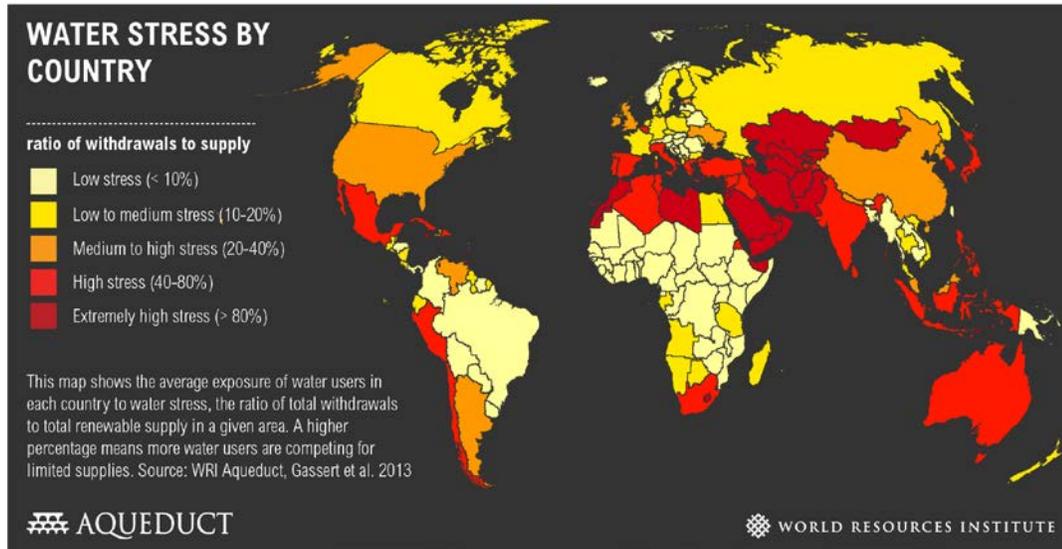
Requiring the involvement of:

- policy makers,
- civil society actors,
- entrepreneurs, and
- scientists

from different disciplines



Global Water Challenges



SDG 6 Targets Summarized By 2030...

- 6.1** All have access to safe and affordable drinking water
- 6.2** All have access to adequate sanitation and hygiene, and open defecation is eliminated
- 6.3** Improve water quality by reducing pollution, minimizing release of hazardous chemicals, and halving the proportion of untreated wastewater
- 6.4** Increase water efficiency across all sectors and ensure sustainable supply of water to reduce the number of people suffering from water scarcity.
- 6.5** Fully implement integrated water resources management—which looks at water resources holistically.
- 6.6** Protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes.

NEWAVE overarching goals

1. Bring together an excellent trans-national & transdisciplinary network of water governance organisations;
2. Develop and implement a cutting-edge actionable research agenda on the key water governance priorities & insights for future directions;
3. Train a new generation of water governance early stage researchers (ESRs) and ensure that they have the trans and interdisciplinary skills to contribute to both the academic and extra-academic worlds.

Taking on the challenge

- NEWAVE responds to urgent socio-environmental necessities
Scientists as key players; actionable outputs
- NEWAVE is designed to push the heuristic and epistemological frontiers of the water governance scientific status quo
- NEWAVE challenges the water governance **policy** status quo through a systematic approach: mixing interdisciplinary theoretical co-production, integration of multi-sectoral perspectives and empirical contextualized evidence

Training the ESRs

As leading figures in the academic, policy, private and civil society sectors:

- Understanding the multi-scalar, competing and multi-dimensional processes that characterize **socio-hydrological dynamics**;
- Developing a **leadership capacity** that accounts for the plurality of values, perspectives, backgrounds and interests that influence decision making associated with water governance; and
- Generating a **reflexive and transdisciplinary assessment capacity** for evaluating new water governance paradigms and proposals.

Five overarching Training Objectives:

1. Equip ESRs with **skills, experience and**
2. Ensure ESRs have **fundamental knowledge** of water problems, paradigms and patterns
3. Foster **methodological innovation** through advanced skills
4. Broaden training through **professionalization** of water governance scholars
5. Build a **pathway for impact** through engaged research and training by embedding ESRs with partner organisations

Selection of NEWAVE expected impacts:

Exploitable Project result	End User	Expected impact
Policy brief	<ul style="list-style-type: none"> - Policy makers - International organisations 	NEWAVE findings and recommendations inform and influence policy making at different levels
Training modules of the seasonal schools and virtual labs and MOOC courses that will be available for replication	<ul style="list-style-type: none"> -Universities -Not-for profit organisations -International organisations -Policy makers -Water professionals 	Implementation of transdisciplinary approaches to research and management of socio-hydrological challenges
Online digital and interactive water governance atlas	<ul style="list-style-type: none"> -Scientific community -Policy makers -Water professionals 	Support policy makers and water professionals to make more informed decisions in issues related to water governance
NEWAVE documentary	<ul style="list-style-type: none"> -Not-for profit organisations -Universities -General public 	Informing the non-expert public about the tenets of water governance, as well as the innovations, and findings of NEWAVE
Reflexive guidelines on water governance paradigms	<ul style="list-style-type: none"> -Policy makers -International organisations 	Motivate practitioners and professionals in the field of water governance to revisit and reevaluate the adoption and implementation of several established paradigms in order to address specific water-related issues

NEWAVE Theoretical Framework

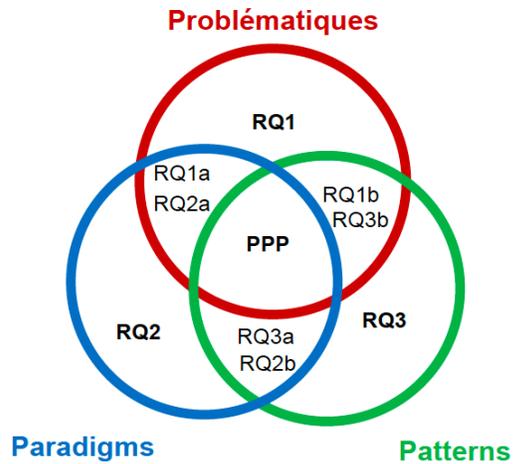


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A shared heuristic framework

Fig.1: Heuristic Framework



**Problématiques
(ESRs 1-5)**

RQ1: What are the most important contemporary water-human problématiques?

**Paradigms
(ESRs 6-10)**

RQ2: How do paradigms arise, circulate and impact water governance applications?

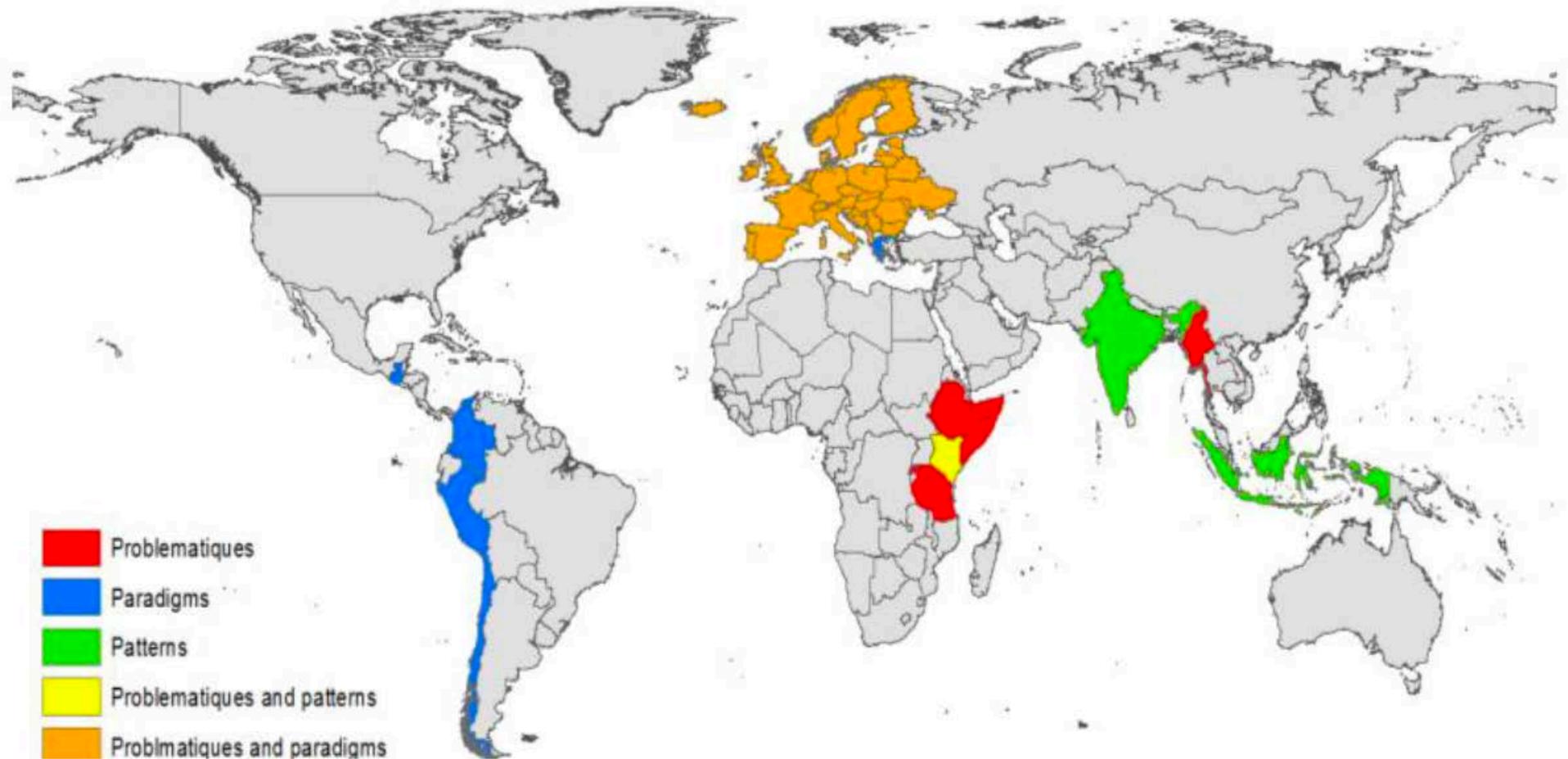
**Patterns
(ESRs 11-15)**

RQ3: What patterns of governance are prevailing in the global water governance arena and what are their outcomes?

Our research projects

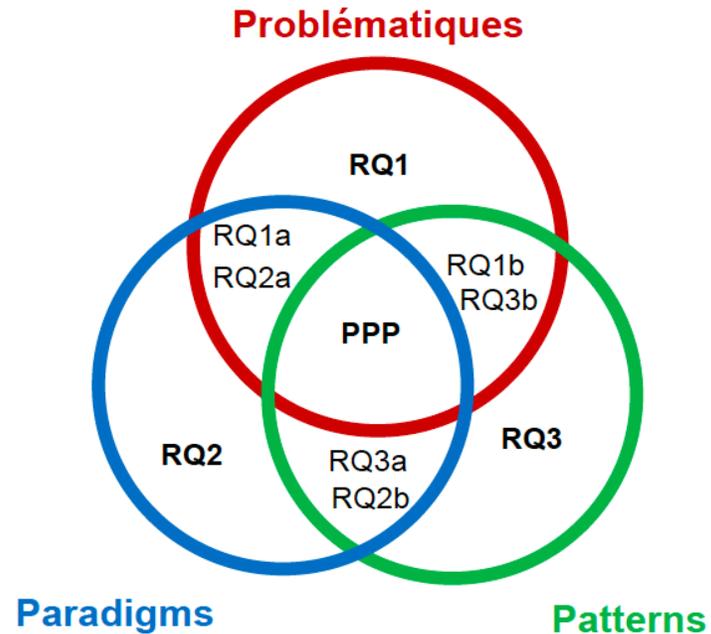
ESR	Host	Project Title	Geog. focus
1	VU Amsterdam	<i>Water-Climate-Conflict Nexus</i>	Myanmar
2	IRD	<i>River Politics</i>	Spain
3	POLIMI	<i>Water and Migration</i>	East Africa
4	UoN	<i>Drought Mitigation</i>	Kenya, Tanzania, Rwanda
5	POLIMI	<i>Urban Water</i>	Europe
6	VU Amsterdam	<i>EU Water Law</i>	Europe
7	FNCA	<i>Knowledge co-production</i>	Spain
8	UvA	<i>Water and Mining</i>	Guatemala, Peru
9	ARCADIS	<i>Water Consultancies</i>	Chile, Columbia
10	VU Amsterdam	<i>Re-commoning</i>	Greece
11	LEUPHANA	<i>Governance Models</i>	Global
12	OAXF	<i>Informal Markets</i>	Kenya
13	UvA	<i>Urban Governance</i>	Indonesia
14	SOAS	<i>Corruption</i>	India, Indonesia
15	OAXF	<i>Water Finance</i>	Kenya

Global span of research



The three P's

Fig.1: Heuristic Framework



A sound contribution to the debate on water governance will be premised on knowledge of three dimensions:

- Problématiques,
- Paradigms,
- Patterns,

and their interactions.

This heuristic framework is open to multiple disciplines

Problématiques

We are working on complex issues. In this context:

- syndromes,
- symptoms,
- drivers and causes

of human-water crises across scales

Paradigms

The concept refers to the ideological component of governance, deeply seeded ideas about how issues should be seen and dealt with:

“a cognitive model shared by a particular community of actors, and which facilitates problem solving” (Carson, 2014), or

“Ideas on steroids” (Baumgartner, 2014)

Patterns

This pertains to the governance structures already in place:

“A co-existence of modes of governance, institutions and instruments”

- Water governance regimes involve hybrids of approaches that revolve around the “state”, the “market” and the “community”.

NEWAVE Training Programme



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Training Activities

<i>Seasonal Training Schools</i>	Credits	Duration	When
NEWAVE Theoretical School (Amsterdam)	3	10 days	2021 (tbc)
NEWAVE Methodological School (Kenya)	3	10 days	2021 (tbc)
NEWAVE Transferable, Actionable and Dissemination Skills Spring School (Spain)	3	7 days	2022 (tbc)
<i>Virtual Labs</i>			
4 Virtual Labs	4 each	Every ~2 m	Nov 2020 - Jan 2024
<i>Synthesis Workshops</i>			
Synthesis Workshop 1: PPP diagnosis, and assessment	2	2 days	2022 (tbc)
Synthesis Workshop 2: future WG alternatives	2	2 days	2022 (tbc)

Virtual Labs

Virtual Lab	Description
I. Water problématiques: the meaning of a social-hydrological view on valuing water	Socio-hydrology is 'a new science of people and water' and it aims at developing a transdisciplinary approach that integrated methods and perspectives from different fields in order to address the complex and interdependent relationship between social processes and hydrological ones
II. Dissecting Water Governance Paradigms, the case of the OECD water principles and SDGs	This virtual lab will focus on the invention, dissemination and evaluation of novel ideas in the global water governance system.
III. Patterns of Governance: the case of the EU Water Framework Directive	The Water Framework Directive (WFD) is a prominent example of a radical overhaul of existing practices.
IV. Brainstorming virtual zone	It has the objective to enhance the ESRs interaction and independent development of ideas, creative initiative and collaborations

Interactive Discussion



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Question #1

- Which region are you from?
 - a. Africa
 - b. Asia
 - c. Europe
 - d. North America
 - e. Central America
 - f. South America
 - g. Oceania

Question #2

- How would you describe your gender?
 - a. Female
 - b. Male
 - c. Other
 - d. Prefer not to say

Question #3

- Please indicate your age group
 - a. Under 18
 - b. 19-29
 - c. 30-49
 - d. 50 and above

Question #4

- What best describes your background?
 - a. Student
 - b. Researcher / Academic
 - c. NGO / Civil Society
 - d. Business / Private Sector
 - e. Other

Question #5

- In your opinion, what is the main threat to global water sustainability?
 - a. Climate Change
 - b. Population pressure
 - c. Groundwater depletion and environmental contamination
 - d. Lack of infrastructures
 - e. Dysfunctional water governance mechanisms
 - f. Inappropriate market-based mechanisms
 - g. Conflicts
 - h. Other (please share your answer in the chat)

Question #6

- Based on the threat you indicated, which action would you prioritise to tackle it?
 - a. Strengthen the science-policy interface
 - b. Increase social awareness, participation, and enhance communication strategies
 - c. Set a common agenda and action plan among different stakeholders
 - d. Innovation, technology, and infrastructure
 - e. Government interventions
 - f. Expand market-based solutions
 - g. Other (please share your answer in the chat)

Question #7

- In your opinion, what should be the training and educational priorities to shape water governance leaders?
 - a. Improve analytical skills & technical knowledge
 - b. Encourage inter- and transdisciplinary approach to deal with water issues
 - c. Focus on interpersonal and soft skills (collaboration, mediation, communication, etc)
 - d. Develop extensive field experience
 - e. Other (please share your answer in the chat)

Question #8

- Which innovative tools or non-conventional instruments can help filling the gaps between scientific training, policy and practice?
 - a. Video production and screenings
 - b. Writing dissemination articles (blogs, magazines, etc)
 - c. Participative exercises within communities
 - d. Serious gaming
 - e. Social media tools
 - f. Others

Question #9

- In your opinion, what should be the role of science in the water governance debate?
 - a. Increase public awareness and dissemination
 - b. Explain reality without political and policy influence
 - c. Provide knowledge, technological advancement, and innovative solutions
 - d. Advocacy in order to influence decision-making processes
 - e. Other (please share your answer in the chat)

Question #10

- How do you feel about the way societies are dealing with the current water challenges?
 - a. Optimistic
 - b. Relatively concerned
 - c. Concerned
 - d. Very concerned
 - e. Pessimistic

(Please briefly explain why)

Conclusions

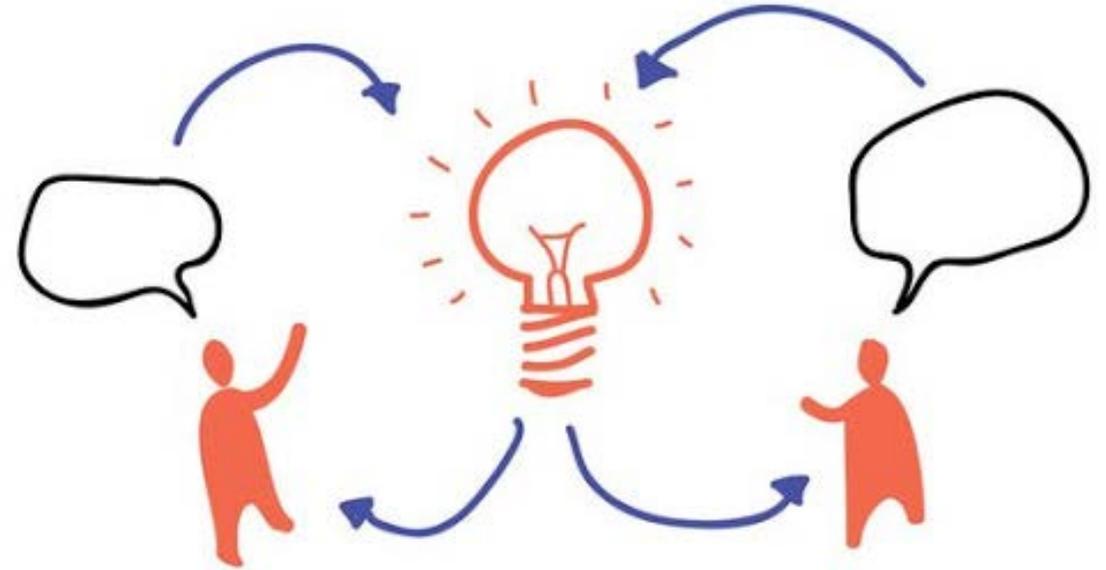


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Conclusions of the session

- Inputs on training programme
- New ideas for initiatives and ground for collaboration



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Thank you!



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