

WATER4ALL PARTNERSHIP

Water4All: Water security for the Planet

NSTC-Horizon Europe Info Day 6 October 2022

European Partnership

www.water4all-partnership.eu



Co-funded by the European Union



Agenda

1. Introduction to Water4All

Prof. Miguel A. Gilarranz, Water4All Vicechair, Spanish State Research Agency (AEI)

2. Cooperation and synergies towards Green Deal

Prof. Maciej Zalewski, Water4All Vicechair, European Regional Centre for Ecohydrology

3. The Joint Transnational Call 2022

Prof. Miguel A. Gilarranz, Water4All Vicechair, Spanish State Research Agency (AEI)

Ms. Maria Bianco, Italian Ministry of Universities and Research (MUR), 2022 Joint Call Secretariat Water4All

4. Q&A



1. Introduction to Water4All Partnership



A co-funded partnership under Horizon Europe

- National/regional research funders and policy makers
- In association with other research and economic actors
- From 2022 to 2029 and beyond
 - 1. Launch: 1st June 2022
 - 2. Some activities may last until 2032
- 79 partners
 - 23 EU MS + 8 non-EU countries

| Category | Number of partners |
|-----------------------------------|--------------------|
| R&I ministries / agencies | 34 |
| Sectoral ministries /agencies | 13 |
| Local authorities | 3 |
| EU networks | 3 |
| National/regional networks | 8 |
| Research Performing Organisations | 18 |



Water4All member countries



Aiming at concentrating water R&I actors and its funding in Europe and beyond

Vision:

- Systemic transformations across the water research and innovation pipeline, fostering the matchmaking between problem owners and solution providers.
- Ensuring water security for all in the long term



Using a holistic approach







Water4All specific impact pathways



Water4All's RDI themes: SRIA



SRIA Themes addressed through a variety of actions

| E. Internationalisation | | B. Research | and innovation Development |
|---|---|--|---|
| Developing international cooperation agreements Engaging with UN Water and other international stakeholders Developing innovative tools for cooperation | | Th | Joint transnational calls ematic annual programming Young researchers calls Demo/transfer calls |
| | A. Joint vision & SRIA SRIA Development Mapping of programmes and impacts | | |
| M | | | |
| | Development Dissemi | of synergies ination | |
| D. Demonstrating Solution eff | iciency | C. Science | – Policy - End-users interface |
| Water Living Labs (LLs) & demos at Network of LLs/demos and roadmap for der implementation Support to development of new L Market uptake support Liaising with investors | tlas monstration Ls | Kı Sı Ph Capaci Lin Too | nowledge hubs, policy WGs upport to start-ups creation D scheme; mobility scheme Vocational training ity building on systemic thinking k to research infrastructures Ibox for managing water data |



Water4All governance





2. Cooperation and synergies towards Green Deal



Cooperation and synergies promoted by Water4All

- Alignment of national/regional programmes and actions
- Coordination of actions with other partnerships and initiatives
- Coordinated use of water related infrastructures and codevelopment of living labs
- Fostering collaboration beyond Europe
- Engagement with relevant international organizations

ERCE unesco European Regional Centre Centre for Ecohydrology Under the auspices Under the auspices of UNESCO

1 M

of UNESCO



Water as the Central and Key Factor for achieving SDG and **Green Deal**



Prepared by prof. Maciej Zalewski, Vice-Chair







UNESCO IHP Intergovernmental Council, 25 April 2022 We need to re-tool our apporaches to water based sciences

RECOMENDATIONS of UNESCO IHP Intergovernmental Council

- Mainstream Governance
- Go Beyond IWRM
- Go Beyond Structures
- GO FOR NATURE BASED SOLUTIONS
- GO DIGITAL
- Re-inforce system thinking from data capturing to dissemination
- Reduce the Gap between science and policy studies, go transdisciplinary – include social and political science components
- Ultimetly SD is based on Culture



From left: **Dr Andras Szollosi-Nagi** (former Director of Division of Water Science UNESCO); **Dr Shamila Nair-Bedouelle** (Assistant Director-General for Natural Sciences of UNESCO); **Dr Abou Amani** (Acting Director of Division of Water Science UNESCO)



Water4All For Green Deal



Role of ecosystems in stabilization of hydrological cycle will be increasing with climate change







The cooperation for synergy with UNESCO Intergovernmental Hydrological Programme







ECOHYDROLOGY as transdisciplinary science for UN SDG and European Commission "Green Deal" for enhancement of catchment sustainability potential

- 1. Ecohydrology integration of understanding of hydrological and ecological processes from molecular to catchment scale towards using ecosystem processes as a management tool for enhancement of catchment sustainability potential: WBSR+CE
- Sustainability Potential WBSR+CL it is necessary for mitigation of cumulative effect increasing human impact, to set the multidimensional goal of catchment management: improve 5 crucial elements of sustainability – WATER,
 BIODIVERSITY, ECOSYSTEM SERVICES, RESILIENCE, society involvement by CULTURE and EDUCATION and all of the above translated into POLICY and LAW.
- 3. The **enhancement** is possible by integration of hydroengineering methods with Ecohydrological Nature-Based Solutions (EH-NBS) and involvement of society
- 4. For **harmonization** of enhanced ecosystem potential (WBSRC) with socjety needs, there is a need to change the paradigm from mechanistic to evolutionary-ecosystemic

Zalewski 2020



Water4All For Green Deal









Kiedrzyńska et al. 2017





Best of the Best LIFE + 2018

Jurczak, Zalewski

ERCE European Regional Centre for Ecohydrology Under the auspices of UNESCO



Ecohydrology as a scientific framework for enhancement of catchment sustainability potential WBSR +CE+PL in Strategic UN and European Commission's Documents

- 1. Strategic Plan for the 9th Phase of the Intergovermental Hydrological Programme (UNESCO IHP-IX 2022-2029)
 - the most important challenge for water management is how to increase water resources quantity and quality, and in parallel to increase biodiversity, ecosystem services for society, and resilience to impacts (WBSR). The answer is through a holistic approach which incorporates the innovative nature-based and ecohydrological solutions methods (NBS) and catchment scale systemic solutions, based on understanding the water ecosystems interplay, as both recipients and producers of water, as well as promoting society involvement through culture and education of water and sustainability (CE). Culture is deeply embodied in societal behaviour patterns, defining perception and actions, efficiency and effectiveness.

2. Fitness-Check for the Water Framework Directive

- Change of Paradigm: "to view biosphere in an evolutionary way (raising people's awareness that the biosphere has always been changing) and in a more ecosystemic manner (including sustainability of catchments and decarbonisation)" (...) "Calls for a new, holistic dimension of the WFD to be developed (...) to enhance catchment sustainability potential (...) WBSRCE" European Commission's Committee of Regions
- 3. European Partnership "Water Security for the Planet "Water4All", under Horizon Europe
 - In support of the European Green Deal and EU water-related policies, the main objective of Water4All is to enable water security for all on the long term, by boosting systemic transformations and changes across the water-research innovation pipeline, fostering the matchmaking between problem owners and solution providers.







In IWRM, the expression "without compromizing ecosystems" is not sufficient for acceleration of **SDG and achieve Green Deal**.

Ecohydrology new dimention of IWRM because:

- 1. Large numer of scientific evidences that the good status of water resources dependant on terrestrial and freshwater ecosystems which are retaining, recycling, purifying and cooling systems at the catchemnt.
- 2. Ecohydrology provides scientific framwork how to use of ecosystem properties as management tool, to integrate and to harmonize it with hydrotechnical infrastructure for synergy towards:
- 3. Enhancement of catchment sustainability potential WBSR+CE+PL



Water4All For Green Deal

Securing water is essential for Green Deal policy components:

- Circular economy,
- Zero pollution,
- Biodiversity,
- From Farm to Fork,
- Sustainable agriculture,
- Clean energy,
- Sustainable industry,
- Building and renovating,
- Sustainable mobility,

• Etc.



• Support to water-related frameworks: EU Green Deal, Water Framework Directive, Drinking Water Directive, SDGs, etc.



3. The Joint Transnational Call 2022



Topic Management of water resources: resilience, adaptation and mitigation to hydroclimatic extreme events and management tools

Context

Increase in the number, intensity and duration of hydrological extreme events

Objectives

- Deliver knowledge, models, approaches, tools and methodologies to better understand hydrological processes at different scales and to respond more efficiently to emerging water issues related to extreme events.
- Support the implementation of EU water policies and strategies related to water management and resource efficiency and protection.
- Seek for innovative governance models, and enhanced participation of stakeholders, communities and society at large.



Relation with SRIA





Topic 1: Resilience, adaptation and mitigation to hydroclimatic extreme events

1.1 Addressing knowledge gaps in our understanding of the causes of water scarcity, drought events, seasonal variability in climate impacts to develop adaptation and mitigation measures, taking climate change into account.

1.2 Developing and demonstrating innovative (or improved) societally acceptable adaptation and mitigation strategies to cope with hydro-climatic extreme events and their increase in length and duration. This includes floods and droughts, although is not limited to them, adopting a regional or a basin scale wide approach.

1.3 Improving resilience and adaptation capacity of water infrastructure (e.g., industrial water facilities, urban networks, wastewater treatment facilities, stormwater management systems and rural systems) to hydroclimatic extreme events.



Topic 2 Tools for water management - in the context of hydroclimatic extreme events

2.1 Developing tools (e.g., multi-risk approach, decision support tools, monetary/non- monetary costs valuation) to support the design and implementation of strategies for adaptation and mitigation to hydroclimatic extreme events, especially floods (including "flash-floods"), heat waves and droughts in a catchment to sea perspective.

2.2 Generating new methodologies, tools and models for water resources assessment/modelling for water bodies in scarcely monitored /data scarce areas. A combination of physical and digital solutions is expected, and opportunities provided by citizen science should be seized.

2.3 "Smartening the water system" and use of innovative digitalization, including improved/new sensors, models, communications and computing technologies.



Topic 3 Improved water governance in the context hydroclimatic extreme events and international contexts

3.1 Undertaking an analysis and developing robust Governance models for the management of water resources in the context of extreme events, is critical increasing the decision-making capacity of institutions and involvement of citizens. This should include ways of improving coordination between water managers to increase our capacity to reduce vulnerability to extreme events, as well as effectively respond to them.

3.2 Addressing and encouraging international cooperation in the field of water, including management of transboundary water resources and contribution to Water Diplomacy.



Expectations

- Contribution to the acceleration of the adoption of measures / reduction of vulnerability
- Connect actors
- Knowledge transfer.
- Impact of the deliverables on:
 - Improved water availability and optimisation of water quality and quantity for all uses in Europe, while maintaining ecosystems needs.
 - Improved resilience of European populations to water-related hazards, extreme events and climate change.
 - Supporting the implementation of the UN SDGs and ensuring a Just Transition for all.



4. Call process & Eligibility Rules

| Country | Funding Organisation | National budget |
|-----------------|----------------------|-----------------|
| Austria | FWF | 700.000,00 |
| Belgium | VLAIO | 800.000,00 |
| Belgium | FWO | 700.000,00 |
| Belgium | F.R.SFNRS | 300.000,00 |
| Brazil | CONFAP | 963.400,00 |
| Brazil | CNPq | 100.000,00 |
| Czechia | TA CR | 700.000,00 |
| Denmark | IFD | 1.000.000,00 |
| Estonia | ETAg | 150.000,00 |
| France | ANR | 1.700.000,00 |
| Germany | BMBF | 1.000.000,00 |
| Hungary | NKFIH | 330.000,00 |
| Ireland | EPA | 500.000,00 |
| Italy | MUR | 2.700.000,00 |
| Italy | MISE | 3.000.000,00 |
| Israel | MoE | 400.000,00 |
| Latvia | LZP | 500.000,00 |
| Lithuania | LMT | 150.000,00 |
| Luxembourg | FNR | 350.000,00 |
| Malta | MEEE | 300.000,00 |
| Moldova | NARD | 100.000,00 |
| Netherlands | NWO | 1.128.000,00 |
| Norway | RCN | 1.000.000,00 |
| Poland | NCBR | 1.000.000,00 |
| Portugal | FCT | 500.000,00 |
| Romania | UEFISCDI | 1.000.000,00 |
| Slovak Republic | SAS | 240.000,00 |
| South Africa | WRC and DSI | 90.000,00 |
| Spain | AEI | 1.500.000,00 |
| Spain | CDTI | 1.200.000,00 |
| Sweden | FORMAS | 2.000.000,00 |
| Switzerland | SNSF | 900.000,00 |
| Turkey | TUBITAK | 500.000,00 |
| United Kingdom | EPSRC UKRI | 299.546 |



Participating countries

34 funding organisations from 29 countries

Total funding for the Call: over 34M€ (+ EU Contribution)

The funding organisation may have defined maximum allowed budget per partner and/or project

CONSULT THE NATIONAL REGULATION ONLINE:

http://www.waterjpi.eu/joint-calls/joint-call-2022water4all/water4all national regulation master 07092022.pdf

CONSULT THE LIST OF NCP ONLINE:

http://www.waterjpi.eu/joint-calls/joint-call-2022water4all/national contact points water4all.pdf

Timeline



!! Do not wait until the last minute to submit !!

| First Step: Submission of pre-proposals | | |
|---|--|--|
| 30 June 2022 | Pre-announcement | |
| 1 Sept. 2022 | Call Publication 1 st Step opening | |
| 31 Oct. 2022 | Deadline for submission of the pre-proposals | |
| 2 - 30 Nov. 2022 | General and National eligibility checks by the CS and FPOs | |
| 20 Jan. 2023 | Notification to the applicants of the 1st step outcomes | |
| Second Step: Submission of full proposals | | |
| 20 Jan. 2023 | 2 nd step opening | |
| 20 Mar. 2023 | Deadline submission of the full proposals | |
| 21 - 27 Mar. 2023 | Eligibility check of full proposals by Call Secretariat | |
| 31 May - 1 Jun. 2023 | Evaluation Panel Meeting – Ranking list | |
| 5 Jun. 2023 | Meeting CSC for selection of proposals recommended for funding | |
| 6 Jun. 2023 | Notification to the applicants of the 2nd step outcomes | |
| 6 - 20 Jun 2023 | Period for appeal | |
| 5/6 Jul. 2023 | Final approval of the proposals recommended for funding | |
| Last quarter 2023 / 1st quarter 2024 | Start of the RD&I projects | |

Submission procedure



• **<u>STEP 1</u>**: Mandatory submission of pre-proposals through the Online Submission Platform

!! Applicants cannot enter the procedure at a later stage **!!**

- Eligibility check (Call Secretariat and related Funding Organisations)
- > First evaluation by independent evaluation experts according to the following criteria:
 - i. Excellence
 - ii. Impact

Minimum threshold, i.e., 3 out of 5 in each criterion.

- **<u>STEP 2</u>**: Applicants invited to step 2 have to **submit a full proposal via the Online Submission Platform**
 - Eligibility check (Call Secretariat)
 - Evaluation by external experts and an independent evaluation panel according to the following criteria:
 - *i.* Excellence
 - *ii.* Quality and efficiency of the implementation
 - iii. Impact

Threshold on the final score is 10/15



Consortium Composition

- Each consortium must be composed of at least a minimum of three eligible partners that request funding from participating Funding Partner Organisations from three different countries.
 - In addition, part of the eligible Partners, at least two must be from different EU Member States or Associated Countries (AC) participating in the call (https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/list-3rd-country-participation_horizon-euratom_en.pdf)
- The upper limit of eligible project partners per consortium is 7 (including 1 self- funded partner).
 - > No more than one self-funded project partner per consortium is allowed.
 - > The applicants have to prove their willingness to self-fund their own activities or the willingness of other partners to fund their activities by sending a letter of intent/commitment together with the **full proposal**.
 - > A self-funded partner cannot coordinate a project.
- The maximum number of partners from the same country within the consortium must comply with national/regional regulations.

| A consortium including organisations from Portugal, Italy and Brazil (Non EU member BUT participating in the Call | Eligible ✓ 2 different EU MS and AC (Portugal and Italy) & Partners from 3 different countries (Brazil) |
|--|---|
| A consortium including organisations from France, Spain and Greece (as self-funded partner) | Not Eligible ✓ 2 different EU MS and AC (France and Spain) & Partners from 3 different countries (Greece) whose one not requesting funding |



Other general eligibility rules

Project duration: 3 years

- The **Consortium Coordinator** must be eligible for funding by a Funding Partner Organisation (FPO) of this call.
- The Principal Investigator acting as **Consortium Coordinator** can only participate in **one** proposal of this call, i.e., he/she cannot participate in any other proposal, neither as a Consortium Coordinator nor as Principal Investigator of a partner. In roles other than that of a Coordinator, the applicants can participate in several proposals, as long as this is in line with their funding organisation's eligibility rules.
- Proposals must be written in **English**.
- The scope or scale of the proposed research should exceed a single country.



Eligibility of international research institutions

- The Joint Research Centre (JRC) can participate in a proposal as a self-funded partner.
- Institutions from countries not participating in the Call may join consortia only as partners (not as coordinator). Participation will be at the institutions' own expense.
- International institutions need to investigate their respective national eligibility guidelines if they are eligible to participate as funded partners and make sure they would be able to fulfil the duties of funded projects (i.e. signature of consortium agreement).



Changes allowed between pre & full proposals

!! The information given in the pre-proposals is binding**!!**

- No major changes regarding the proposals' content will be allowed between the pre-proposals and full proposals.
- A limited number of changes in the consortium composition maximum 2 changes of Project Partners in proposals with more than 5 partners; maximum 1 change of project partner in proposals with 5 or less partners, provided approval by the concerned Funding Organisations.
- In terms of procedure: The eligibility of new research Partners must be confirmed before the full proposal submission deadline. Changes must be asked first to the NCP, who needs to check the eligibility and agree with the change.
 - Minor change of budget if allowed by the relevant FPO.
 - No changes of coordinator (P.I. Principal Investigator in charge) will be allowed, except in case of force majeure. A request of change of coordinator must be submitted to the Call Secretariat, at least one week before the deadline for submitting full proposals and it will be discussed on a case-by-case basis.



Participation of Self-funded partners

Proposal may include in the consortium Partner that cannot be funded by any of the Funding Organizations participating in the call.

- Organizations from countries not listed in the call can join consortia as Self-funded Partner according to the following conditions:
- They **cannot** assume the role of Consortium Coordinator
- Maximum number of self-funded partner in a proposal is limited to ONE organization
- Self-funded partner needs a **Participant Identification Code (PIC)** from the EC to be included in the submission. <u>The</u> <u>applicants have to check their PIC or ask for the creation of a PIC well in advance of the submission</u>
- Self-funded partner shall participate in the submission procedure by subscribing and filling in information in the **Online Submission Tool**
- In the STEP 2 they need to provide a Commitment/Intent Letter proving their willingness to self-fund their own activities or the availability of other resources to fund their activities.
- Self-funded partner must sign the **Consortium agreement**.
- Self-funded partner is not considered in the minimum requirement of eligible partners and countries and is considered in the maximum number of partners in a project.

Funding organisations' financial rules and eligibitility

Each National / regional Funding Organisation funds its own national / regional team

Il Applicants must comply with their funding organisations' eligibility criteria and rules (e.g. eligible budget items)

Applicants are strongly advised to approach their respective Funding organisation Contact Point to make sure they respect all the eligibility criteria and rules **!!**

Consult the Funding Organisations' Contact Points here: water4all2022_callsecretariat@mur.gov.it

AND National Regulations

http://www.waterjpi.eu/joint-calls/joint-call-2022water4all/water4all_national_regulation_master_07092022.pdf



Submission Platform and Partner Search Tool

• Use the Water4All Partner Search Tool

You simply have to fill in a Partner / Project Search form on the Online Submission Platform (in English)

Link: https://water4all2022-submission.mur.gov.it/Partnering-Offers/

* Your form will be visible on the platform and you may be contacted by other applicants

Have a look at the forms submitted through a user-friendly search function: search for partners or projects to join on the platform according to different criteria: country and keywords

Water4All Online Submission Platform

Prepropoal Submission Guidelines and Preproposal Template available

Link: https://water4all2022-submission.mur.gov.it/



Resources available online





Consult the CALL DOCUMENT containing the following information:

- Call Announcement (call text)
- National Regulations
- National Contact Points

- Consult the Online Submission Platform containing the following information:
 - Call Document
 - Preproposal Submission Guidelines
 - Pre-proposal application form (for information; to be accessed via Online Submission platform)
 - Data policy
 - Partner Search Tool

Coming Soon: Webinar recording, PPT and FAQ



Find out more about the call:

http://www.waterjpi.eu/joint-calls/joint-call-2022-water4all

Contacts:

Call Secretariat (MUR):

Maria BIANCO and Aldo COVELLO - water4all2022_callsecretariat@mur.gov.it

National/Regional Contact Points:

http://www.waterjpi.eu/joint-calls/joint-call-2022water4all/national_contact_points_water4all.pdf

Partner Search Tool:

https://water4all2022-submission.mur.gov.it/Partnering-Offers/



Thank you for your participation!

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