



Water4All Public Consultation

Mandatory questions are marked with a star (*)

Welcome to the Water4All Public Consultation.

Your feedback is important because it will help to inform the revised Strategic Research and Innovation Agenda (SRIA) of Water4All Partnership.

[The Water4All Partnership](#) - Water Security for the Planet - is a funding programme for scientific research in freshwater. It aims to tackle water challenges in a holistic frame to face climate change, help to achieve the United Nations' Sustainable Development Goals and boost the EU's competitiveness and growth. The Water4All objective is to enable water security at a large scale and in the long term.

Water4All is co-funded by the European Union within the frame of the Horizon Europe programme (a key funding programme for research and innovation). The duration of the Water4All Partnership is 2022-2029. Water4All brings together a broad and cohesive group of 90 partners from 33 countries in the European Union and beyond. This consortium gathers partners from the whole water Research, Development and Innovation (RDI) chain.

The Water4All Partnership released its [Strategic Research and Innovation Agenda \(SRIA\)](#) in September 2022, and an updated version is due in 2025. The SRIA sets out water topics for which research and innovation activities are recommended to secure water for all. Topics are grouped into different key themes related to the value of water and circular economy, ecosystems and biodiversity, sustainable water management, water and health, infrastructures, governance, and international cooperation.

By answering this survey, you have an opportunity to make impact on Water4All and the future of water!

By completing this survey you accept that all of the information supplied will only be used for the purposes of this Public Consultation process. Further to the General Data

Protection Regulation (GDPR), before completing the survey, refer to the [Water4All Privacy Policy](#) which provides details on how any personal information provided in this survey will be processed. Please note that the Research Council of Finland (AKA) in Finland are collating the results of this survey in compliance with the [AKA Privacy Policy](#).

It is possible to fill the survey anonymously, without including your contact details. However, you may choose to provide your contact details (email) for follow-up.

Your contributions will be reported as anonymous, even if you choose to provide your information.

If you have queries regarding this Public Consultation contact Water4All representatives Laura Forsström (laura.forsstrom@aka.fi) or Vesa Yli-Pelkonen (vesa.yli-pelkonen@aka.fi).

1. Country *

- Afghanistan
- Albania
- Algeria
- Andorra
- Angola
- Antigua and Barbuda
- Argentina
- Armenia
- Australia
- Austria
- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Barbados
- Belarus
- Belgium
- Belize
- Benin

- Bhutan
- Bolivia
- Bosnia and Herzegovina
- Botswana
- Brazil
- Brunei
- Bulgaria
- Burkina Faso
- Burundi
- Cabo Verde
- Cambodia
- Cameroon
- Canada
- Central African Republic
- Chad
- Chile
- China
- Colombia
- Comoros
- Congo, Democratic Republic of the
- Congo, Republic of
- Costa Rica
- Côte d'Ivoire
- Croatia
- Cuba
- Cyprus
- Czech Republic
- Denmark
- Djibouti
- Dominica
- Dominican Republic
- East Timor (Timor-Leste)
- Ecuador
- Egypt
- El Salvador

- Equatorial Guinea
- Eritrea
- Estonia
- Eswatini
- Ethiopia
- Fiji
- Finland
- France
- Gabon
- Gambia
- Georgia
- Germany
- Ghana
- Greece
- Grenada
- Guatemala
- Guinea
- Guinea-Bissau
- Guyana
- Haiti
- Honduras
- Hungary
- Iceland
- India
- Indonesia
- Iran
- Iraq
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Jordan
- Kazakhstan
- Kenya

- Kiribati
- Korea, North
- Korea, South
- Kosovo
- Kuwait
- Kyrgyzstan
- Laos
- Latvia
- Lebanon
- Lesotho
- Liberia
- Libya
- Liechtenstein
- Lithuania
- Luxembourg
- Madagascar
- Malawi
- Malaysia
- Maldives
- Mali
- Malta
- Marshall Islands
- Mauritania
- Mauritius
- Mexico
- Micronesia, Federated States of
- Moldova
- Monaco
- Mongolia
- Montenegro
- Morocco
- Mozambique
- Myanmar (Burma)
- Namibia
- Nauru

- Nepal
- Netherlands
- New Zealand
- Nicaragua
- Niger
- Nigeria
- North Macedonia
- Norway
- Oman
- Pakistan
- Palau
- Panama
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Poland
- Portugal
- Qatar
- Romania
- Russia
- Rwanda
- Saint Kitts and Nevis
- Saint Lucia
- Saint Vincent and the Grenadines
- Samoa
- San Marino
- Sao Tome and Principe
- Saudi Arabia
- Senegal
- Serbia
- Seychelles
- Sierra Leone
- Singapore
- Slovakia

- Slovenia
- Solomon Islands
- Somalia
- South Africa
- Spain
- Sri Lanka
- Sudan
- Sudan, South
- Suriname
- Sweden
- Switzerland
- Syria
- Taiwan
- Tajikistan
- Tanzania
- Thailand
- Togo
- Tonga
- Trinidad and Tobago
- Tunisia
- Turkey
- Turkmenistan
- Tuvalu
- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States
- Uruguay
- Uzbekistan
- Vanuatu
- Vatican City
- Venezuela
- Vietnam
- Yemen

- Zambia
- Zimbabwe

2. Gender *

- Female
- Male
- Other
- Prefer not to specify

3. Are you completing this survey as an individual or on behalf of an organisation? *

- As an individual
- On behalf of an organization

4. Type of affiliation or organisation *

- University/Research organisation
 - Water enterprise (private/public)
 - Other enterprise (private/public)
 - Ministry
 - Governmental organisation
 - Non-governmental organisation
 - Professional water associations
 - Funding organisation
 - Private citizen
 - Other, please specify
-

5. Are you involved in water-related platforms, networks of initiatives? *

- Yes
- No

7. In your opinion, what are the key water challenges that should be addressed by Water4All in the next 10 years (i.e. by 2035)? You may consider environmental, socio-economic and/or political challenges.

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8. Rank the following global water challenges identified in the [Un-Water SDG6 Synthesis Report](#) (1 is most important and 4 is least important).

Functioning of the sanitation cycle	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Freshwater (including groundwater) resources in terms of their quality, quantity, development, management, monitoring and use	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Disaster risk reduction	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Climate-related water challenges	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4

9. In your opinion, what are the most significant barriers to achieving solutions to Global Water Challenges? (Please select from 1 up to 5 options)

- Lack of research funding and/or access to Research Infrastructures
- Insufficient multi-disciplinary and cross-sectoral collaboration
- Cost of building research capacity & capability (e.g., recruiting researchers, research, demonstration sites)
- Lack of disseminating research results to the end users
- Lack of training on tools tailored for end users to address water challenges
- Lack of awareness by decision and/or policy makers
- Limited engagement with industry/economic sector partners
- Limited engagement with end users and other stakeholders
- Limitations related to scalability (e.g., size, efficiency/functionality of process)
- Affordability of new investments/innovations

Don't know

Other, please specify

10. In your opinion, what concrete solutions are needed to achieve the Water4All aim, enabling water security for all in the long term? For definition of Water Security, please see: [UN-Water](#)

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11. The current SRIA states the following: “The Partnership emphasises the Innovation part and the implementation of solutions, as many have already been developed by scientists, but their uptake by policy makers, end-users and the society is often too limited or too slow to deliver on water challenges at a sufficient pace.”.

In your opinion, what is needed to enhance the uptake of scientific knowledge into practice?

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12. Rate the themes and subthemes identified in Water4All SRIA (1 is most significant and 5 is least significant. Significance refers to the extent to which research and innovation in a particular theme could contribute to responding to socioeconomic, environmental or political needs).

	1 Extremely significant	2 Very significant	3 Significant	4 Somewhat significant	5 Not significant
Theme 1: Water for circular economy: smart water value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 1.1. Water supplies for socio-economic development and activities, such as agricultural, aquaculture, urban, industrial and energy uses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 1.2. Circular economy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 1.3. Empowering the public, water users and stakeholders in valuing water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 2: Water for ecosystems and biodiversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 2.1. Functioning and biodiversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 2.2. Resilience, mitigation and adaptation of aquatic ecosystems and ecosystem services to global changes e.g. climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 2.3. Developing and applying ecological engineering and ecohydrology for ecosystems restoration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 2.4. Integrating ecosystem services into the management of water resources and aquatic ecosystems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 3: Water for the future: sustainable water management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.1. Integrated water resources management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.2. River basin management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.3. Groundwater management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.4. Resilience, adaptation and mitigation to hydroclimatic extreme events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 3.5. Tools for water management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 4: Water and health	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 4.1. Behaviour and effects of contaminants of emerging concern, litter, plastics, endocrine disruptors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 4.2. Water dimension of anti-microbial resistance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1 Extremely significant	2 Very significant	3 Significant	4 Somewhat significant	5 Not significant
Subtheme 4.3. Innovative water tools and technologies for water quality monitoring and water treatment, remediation and disinfection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 4.4. Risk assessment and threshold values for protection of human health and ecosystems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 5: Water infrastructure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 5.1. Adaptation of existing water infrastructures to new challenges	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 5.2. Water infrastructures resilience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 5.3. Water infrastructures security (including cyber and terrorism security)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 6: International cooperation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 6.1. Water diplomacy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 6.2. Establishing tools for trans-boundary cooperation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 6.3. Developing integrated, fair and adaptive water resource management systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 7: Governance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 7.1. Developing methods for more efficient citizen and wider stakeholder engagement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 7.2. Strengthening policy integration, alignment, coherence and water policy coordination to exert a change in society	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 7.3. Supporting the adoption of innovations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. Rate the themes and subthemes identified in Water4All SRIA (1 is most urgent and 5 is least urgent).

	1 Extremely urgent	2 Very urgent	3 Urgent	4 Somewhat urgent	5 Not urgent
Theme 1: Water for circular economy: smart water value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 1.1. Water supplies for socio-economic development and activities, such as agricultural, aquaculture, urban, industrial and energy uses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 1.2. Circular economy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 1.3. Empowering the public, water users and stakeholders in valuing water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 2: Water for ecosystems and biodiversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 2.1. Functioning and biodiversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 2.2. Resilience, mitigation and adaptation of aquatic ecosystems and ecosystem services to global changes e.g. climate change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 2.3. Developing and applying ecological engineering and ecohydrology for ecosystems restoration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 2.4. Integrating ecosystem services into the management of water resources and aquatic ecosystems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 3: Water for the future: sustainable water management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 3.1. Integrated water resources management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 3.2. River basin management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 3.3. Groundwater management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 3.4. Resilience, adaptation and mitigation to hydroclimatic extreme events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 3.5. Tools for water management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 4: Water and health	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 4.1. Behaviour and effects of contaminants of emerging concern, litter, plastics, endocrine disruptors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 4.2. Water dimension of anti-microbial resistance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1 Extremely urgent	2 Very urgent	3 Urgent	4 Somewhat urgent	5 Not urgent
Subtheme 4.3. Innovative water tools and technologies for water quality monitoring and water treatment, remediation and disinfection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 4.4. Risk assessment and threshold values for protection of human health and ecosystems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 5: Water infrastructure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 5.1. Adaptation of existing water infrastructures to new challenges	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 5.2. Water infrastructures resilience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 5.3. Water infrastructures security (including cyber and terrorism security)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 6: International cooperation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 6.1. Water diplomacy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 6.2. Establishing tools for trans-boundary cooperation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 6.3. Developing integrated, fair and adaptive water resource management systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theme 7: Governance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 7.1. Developing methods for more efficient citizen and wider stakeholder engagement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 7.2. Strengthening policy integration, alignment, coherence and water policy coordination to exert a change in society	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Subtheme 7.3. Supporting the adoption of innovations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. Are there any missing themes or subthemes?

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15. Water4All SRIA has identified the following six drivers, i.e., the overarching factors that may lead to changes in the strategic priorities. Rank the drivers according to their importance (1 is most important, 6 is least important).

Climate change	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6
Human and ecosystem health	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6
Migration	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6
	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3

Urbanisation & population increase

4

5

6

Food and energy security

1

2

3

4

5

6

Global needs and human-water interactions

1

2

3

4

5

6

16. In your opinion, are there any missing drivers?

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17. Water4All SRIA has identified the following enablers, i.e., factors facilitating activities and the attainment of Water4All objectives. Rank the enablers according to their importance (1 is most important and 5 is least important).

The digital revolution (big data, AI, IoT, Digital Twins)

- 1
- 2
- 3
- 4
- 5

Existing research infrastructure & technologies

- 1
- 2
- 3
- 4
- 5

Open science and responsible research and innovation

- 1
- 2
- 3
- 4
- 5

Changes in people's vision towards natural resources

- 1
- 2
- 3
- 4
- 5

Technologies and new (regulatory and economic) frameworks

- 1
- 2
- 3
- 4
- 5

18. In your opinion, are there any missing enablers?

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19. The public consultation is anonymous, but if you wish, you can give your contact information to allow further discussions on your response.

Email

Name
