

Water4All Joint Transnational Call 2025 on Water and Health:

Pre-proposals invited to submit a full proposal in step 2

| Proposal No | Acronym | Title | Keywords |
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| Water4All2025-486 | ABHAINN | AI for Bathing-river Health Assessment and Integrated Natural Nexus | Swimmable rivers, AI predictive modeling, restoration, water living labs, one health |
| Water4All2025-769 | AI4WatH | A decision support tool model for reducing pressure on water source health, based on comprehensive experimental data and artificial intelligence | Contaminants of emerging concern, Antibiotic resistance bacteria/genes, Waterborne contaminants & health risks, surface waters and sediments, Innovative tools for water quality and exposure monitoring. |
| Water4All2025-247 | AI-Binders4OneWater | Artificial Intelligence for Designing Selective Binders to Trace the Origin and Fate of Emerging Contaminants in Waters under the One Health Aspect | Pharmaceuticals, continuous monitoring, water treatment, sustainability |
| Water4All2025-482 | AMRfate | Fate of antimicrobial resistance following wastewater discharges into rivers | Antimicrobial resistance, pathogens, wastewater, environmental fate, hydrodynamic modeling |
| Water4All2025-841 | APITOX | Active Pharmaceutical Ingredient Toxicity in European Drinking Waters | active pharmaceutical ingredients, water treatment, toxicology, health risks |
| Water4All2025-867 | AQUA-FAITH | AI-powered Forecasting of Hidden Agricultural Water Threats in Climate-Stressed Regions | AI-based water quality forecasting, Contaminant transport and exposure forecasting, Multi-omics and analytical workflows, FAIR-compliant interoperable databases, One-Health risk assessment |
| Water4All2025-133 | AQUA-SONIC | From Monitoring to Technology–Integrating Ultrasonic Cavitation and Chemical Oxidation for Advanced Pharmaceutical Removal in Wastewater (AQUA-SONIC) | Sonochemical advanced oxidation, Micropollutant removal, 2D-LC-HRMS analysis, Water quality and health risk |
| Water4All2025-694 | AquaWISE | Fusing Advanced Sensing and Earth Observation for Water Quality and Health Risk Management | Microwave Sensors, fibre optic sensors, satellite earth observation, Water quality, artificial Intelligence dashboard |
| Water4All2025-584 | ARISE | Acid mine drainage remediation through innovative engineering of bauxite inorganic polymer sorbents | Industrial waste upcycling; wastewater treatment; circular economy; sustainability; zero-waste appro |
| Water4All2025-628 | ASPIRE | Assessing and improving the performance of small drinking water supplies | Groundwater, small water supplies, mitigation |
| Water4All2025-388 | BIOHEALTH | Unveiling River Biofilms’ Role in One Health: Biodegradation and Bioretention of Contaminants, Antibiotic Resistance Genes, and Pathogens | Biofilms, water resources, Water Pollutants Prioritization, Risk Assessment, Human Health Impact |
| Water4All2025-189 | BIO-SENTINEL | BIO-SENTINEL: River Biofilms from Pristine to Anthropogenic Systems as Sentinels of Chemical Stress and Antimicrobial Resistance | Metagenomics, antimicrobial resistance, metatranscriptomics, pollution, contaminants |
| Water4All2025-569 | CLEARlakes | Climate Extremes And health Risks from European lakes | Extreme events, water quality, lakes, time-series, Earth observation |
| Water4All2025-222 | CLEAR-MICRO | Contaminant Lifecycle, Exposure, and Advanced Remediation of MICROpollutants | Water cycle, Micropollutants, cocktail effect, transformation products, hybrid Advanced Oxidation processes |

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| Water4All2025-24 | CLEAR-STREAM | Community-Linked Environmental Assessment and Response for Schistosomiasis & Tropical waterborne Research for Elimination, Advancement and Monitoring | Neglected Tropical Diseases, Schistosomiasis, Earth Observation, Water quality Surveillance, One Health |
| Water4All2025-798 | CLIMAVO | Climate-Stressed Wastewater Treatment to Vulnerability: Organs on Chips Model to Investigate Vulnerable Physiologies | Wastewater treatment, Climate-stressed contaminants, sensor development, vulnerable populations, health risk investigation |
| Water4All2025-888 | CrossSense | Cross-reactive sensor array for the rapid detection and monitoring of nanoplastics in water | spectroscopy, nanoplastic, detection, rapid test |
| Water4All2025-325 | CROSSVIR | CROss-border Surveillance Strategy for VIRal risks in water systems - Enhancing water security via harmonized viral surveillance in the Greater Region | Waterborne viruses, respiratory viruses, bacteriophages, harmonized detection tools, transboundary surveillance |
| Water4All2025-851 | CyanoWARN | Cyanobacterial blooms: risk mitigation through cost-effective early warning systems (CyanoWARN) | Cyanobacterial blooms, Early warning, reflectance HS imagery, aerosol collectors, cyanotoxins |
| Water4All2025-409 | DECENT-R | Developing risk-based criteria for effective and safe on-site water treatment and reuse | Water reuse, quantitative microbial risk assessment, decentralized treatment |
| Water4All2025-656 | DROP | Detection and Removal Of microPlastics from water using luminescent composite membranes | Photoluminescence, optical sensor system, Microplastic detection |
| Water4All2025-272 | eAQUAPAR | Environmental DNA monitoring of waterborne protozoan parasites in drinking water systems | drinking water, waterborne pathogens, environmental DNA |
| Water4All2025-774 | ECOMix | Evaluating the risk of emerging contaminant mixtures on One Health in European waters | ceC AND AMR mixtures, Non-target screening, contaminant transport modelling, Ecotoxicology, Water governance |
| Water4All2025-237 | ECO-SUN-CARE | Environmentally Sustainable Carotenoid-Based UV-Protective Pigments for Safer Sunscreens | Haloarchaea, Carotenoids, salty Mineral water, UV protection, Magnetic nanoparticles |
| Water4All2025-204 | FISH4HEALTH | Fish biocontrol and monitoring of water-borne disease vectors for human health | aquatic vector, biocontrol, schistosomiasis, malaria, west nile virus |
| Water4All2025-441 | FLOW-TOGETHER | Fostering Local Water and Health Stewardship in Nature-based Solutions through Transdisciplinary Research and Inclusive Governance | health risk assessment, nature-based solutions, water quality, governance, community engagement |
| Water4All2025-764 | GEOWAQS | GEO-intelligent solutions with portable water units for equal-access to water in crisis situations | Water Quality Monitoring, Crisis-Resilient Water Access, Sensing, Earth Observation, Water Treatment |
| Water4All2025-742 | HABITAT | HABITAT : Nordic River Systems as Living Labs for Climate Adaptation and One Health | Nordic, living labs, river, invasive species, climate |
| Water4All2025-559 | HARMONY | Holistic Assessment of Resistance, Microbiomes, and One Health in Natural Hydrosystems | antimicrobial resistance, toxicology, eDNA, biofilms, pfas and nanoplastics |
| Water4All2025-393 | HER-Water | Health, Equity, and Risks in WATER | Citizen Science, health-water-gender nexus, co-creation, water governance, equity |
| Water4All2025-570 | HORMEX | Integrated abatement of aqueous hormonal contaminants using advanced treatment solutions for public and environmental health | hormone compounds, waters, advanced PCD-microalgae treatments, risk assessment, ecotoxicity |

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| Water4All2025-615 | HY-SHIELD | Short-Chain PFAS Removal from Freshwater Enabled by Structured Hybrid Ionic Frameworks | poly- and perfluoroalkyl substances (PFAS), freshwater purification, functional porous adsorbents, risk assessment, Sustainability Management |
| Water4All2025-757 | ILOLA | Ionic Liquid Origami for Laundry Wastewater: Removal of Nano- and Microplastics for Health Protection | Ionic liquids, nanoplastics and microplastics, toxicity, pollution prevention, washing synthetic clothes |
| Water4All2025-368 | INDEXAR | Innovative biofilm-based INDEX for pollution monitoring and Assessment of human health Risks in coastal and transitional waters | Biofilm-based monitoring; Emerging contaminants; Human exposure; Coastal water quality; Integrativ |
| Water4All2025-739 | INTEGRA-NTS | Integrated Biota–Passive Sampling and Non-Target Screening Workflow for the Prioritisation of Emerging Waterborne Bioaccumulative Substances | Non-target analysis, endocrine disruption, passive sampling, biota monitoring, identification |
| Water4All2025-35 | INTEGRATE-WATER | INTEGRon-based Assessment of anTibiotic rEsistance across Environmental WATER Systems | Integrans, Antimicrobial-resistance, Water-systems-monitoring, One-health, AI-assisted-policy |
| Water4All2025-770 | IQtreat | Intelligent quaternary wastewater treatment for advanced toxicity mitigation | micropollutants, Ozonation & Adsorptive Filtration, bioremediation, Machine Learning & Digital Monitoring, Effect-based methods |
| Water4All2025-21 | MEM4RECEC | Novel multifunctional membranes for technologies effective in removing and eliminating contaminants of emerging concern | Multifunctional Membrane, Nanofiltration, biocatalytic membrane reactor, microcontaminant degradation, water purification |
| Water4All2025-557 | MetaMemory | Development of self-healing metallogeopolymers for enhanced (waste)water treatment and bio-energy production | Wastewater, metallogeopolymers, risk and life cycle assessment, bio-energy production, pollutant degradation |
| Water4All2025-542 | MICAP | Advanced Hierarchical Porous Platforms for Microplastic Capture and Detection | actuating Porous Materials, stimuli-responsive materials, micro/nanoplastics, Raman spectroscopy, machine learning |
| Water4All2025-233 | MIND-WATER | Multi-Indicator Framework for Water Quality Assessment | Indicator concept, water quality assesement, one-water, effect-based-method, trigger values |
| Water4All2025-800 | MNMaqu | Digital Platform for Multiscale Evaluation of Water Quality and Detection of the Accumulation of Manufactured Micro- and Nano-scale Materials in Water | Water quality, manufactured micro- and nano-materials, MnmS ACCUMULATION IN WATER, MNMS ACCUMULATION IN AQUATIC BIOTA, HEALTH IMPACT OF MNMS |
| Water4All2025-185 | NEMOH | Next-generation Environmental Microplastics On-line Monitoring System for Health Protection | Micro- and Nanoplastics, Lab-on-Chip, Surface Acoustic Waves, Photoacoustic Sensing, Water Quality Monitoring |
| Water4All2025-254 | NEXT-PFAS | NEXT-PFAS – Closing the PFAS Detection Gap through Next-Generation Monitoring for One Health | PFAS, analytical chemistry, nmr, non-target screening |
| Water4All2025-608 | OH-WATCH | One Health Wastewater Tracking and Early Warning for Infectious Threats | Wastewater surveillance, Pathogens, Antimicrobial Resistance, Genomic tools, One Health |
| Water4All2025-838 | OneRisk | An effect-based approach to monitor the risks of waterborne contaminants to human and ecosystem health | Effect-based monitoring, effect-directed analysis, chemical mixtures, antimicrobial resistance determinants, next generation risk assessment |
| Water4All2025-456 | OneWaterSense | Integrated wastewater monitoring and biofiltration approaches for pharmaceuticals and microplastics within the One Health Concept | Sensors, bed based system filtration, fluidized based system filtration |
| Water4All2025-106 | OPTIMISE | Overcoming permit and treatment bottlenecks in oxidation and post-treatment to improve chemical risk management for small wastewater treatment plants | risk assessment, advanced treatment, toxicity, process performance, permitting |

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| Water4All2025-572 | PER AQUAM | PERspectives for an integrated wAstewater QUAlity control and runoff Monitoring for one health protection | zoonotic pathogens, veterinarian drugs, ai-based models, climate change, wastewater |
| Water4All2025-870 | PharmAqUa | Pharmaceuticals in urban aquatic ecosystems: from One Health risks to innovative solutions | aquatic organisms; human health; rivers; photocatalyst; sensors |
| Water4All2025-871 | PREMOTION | PREdictive Monitoring of Hydro-Climatic and Contamination Hazards for One Health ProtecTION | Predictive Water Quality Monitoring, Hydro-Climatic and Contamination Risk, Digital Twin and AI-Enhanced Modelling, Nature-Based Solutions for Resilience, One Health Water Governance |
| Water4All2025-267 | PRO-SWIM | Protecting Europe's Surface Water Bodies using Open Source, Continuous Water Quality Monitoring (PRO-SWIM) | monitoring, combined sewer overflows, Urban wastewater treatment directive, regulatory compliance, open data |
| Water4All2025-825 | REAL-TIME_RISK | Real-Time Risk: Enhancing Bathing Water Safety from River to Coast | river, coast, pollution, health, sensor technology |
| Water4All2025-605 | RemediValo | Integrated wastewater remediation and recovery product valorisation for environmental and public health | Wastewater, emerging contaminants, plasma, microalgae, exopolymers |
| Water4All2025-564 | REWINE-Med | Circular Water Innovations from Wine Wastewater for Climate-Resilient Mediterranean Agriculture | Circular economy, Wastewater reuse, Wine industry, Climate resilience, Mediterranean region |
| Water4All2025-999 | RISKMON | RISK-based assessment of drinking and recreational water resources through automated onsite microbial MONitoring | microbial risk, sensors, fecal pollution, water quality, digitalisation |
| Water4All2025-541 | RIVERHYGIENE | Restoration-induced Improvements in the Attenuation of Pathogens and Antibiotic-Resistant Bacteria | bathing water quality, SDg6, hygienic purification function, combined sewer overflows, climate change |
| Water4All2025-674 | SAFE-NATURE | Nature-based Solutions for Safe Water: Integrating Green Technologies for Health Risk Mitigation in Urban and Peri-Urban Settings | emerging contaminants, nature-based solutions, antibiotic resistance, risk assessment, one health |
| Water4All2025-27 | SAFE-RECYCLE | Mitigation and Transformation of Halogenated Organic Chemicals and Parasites Profiling in Reclaimed Water–Soil–Crop Systems to Safeguard Human Health | Contaminants of emerging concern, Water security, exposure assessment, food, toxicity |
| Water4All2025-937 | SHELL | Safe and Healthy LittoraL waters used for shellfish farming | antimicrobial resistance, chemicals, interactions, shellfish, seawater |
| Water4All2025-333 | SiCycle | Manufacturing of SiC ceramic membranes and catalytic reactor from biomass feedstocks for improved wastewater treatment processes. | Nanofiltration, additive manufacturing, circularity, photocatalysis, silicon carbide |
| Water4All2025-991 | SOFTHEALTH | From Chemistry to Health – Assessment of Water-Softening Induced Changes and their Implications | water hardness, water softening, bioassays, epidemiology |
| Water4All2025-580 | STEWARD | Smart Tiered Environmental Waterborne-microbial risk Assessment for Water Safety Planning, Resilience & Decision-making | Water safety planning, catchment QMRA, infectivity, modelling platform, surface waters |
| Water4All2025-366 | STORM | A Source-to-Outcome Framework for One Health Risk Assessment of Per- and Polyfluoroalkyl Substances and Their Mixtures | PFAS, ONE-HEALTH, RISK ASSESSMENT, MIXTURE, nam |
| Water4All2025-82 | TAPSAFE | From Tap to Table: The Influence of Drinking Water Preparation Behaviors on its Quality and Consumer Health. | trAce elements, bisphenol A, water hardness, tap water, drinking water |

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| Water4All2025-767 | TRANS4HEALTH | TRANSitional Waters as Sources, Pathways and Sinks for Microplastics and Contaminants: Implications for Human HEALTH | land-sea-human continuum; microplastics transport; contaminant fate and bioavailability; one health; |
| Water4All2025-128 | TRIMICRO | Portable Pre-Concentration and Graphene Biosensors for Rapid Microbial Risk Assessment in Urban Waters | On-site pre-concentration, biosensors, Inertial tangential filtration, Microbial water-quality, monitoring Rapid ATP assays |
| Water4All2025-649 | VALIDWATER | Validating Nature-Based Solutions for Health Protection Across the Water Continuum | ONE-HEALTH MONITORING, Nature-Based Solutions, Antimicrobial Resistance, Waterborne Pathogens, CONTAMINANTS OF EMERGING CONCERN |
| Water4All2025-997 | VECTORWAT | Mapping and Mitigating PFAS Pathways through Nature-Based and Digital Solutions | PFAS contamination web, One Health, Nature-based solutions, Hydroponic phytoremediation, AI-assisted water monitoring |
| Water4All2025-51 | VirtuWater | Virtual Sensor Platform for Real-Time Water Quality and Risk Management | Water quality monitoring, Wastewater treatment, urban water management, Digital twins, Risk assessment |
| Water4All2025-846 | WATER-PHOCUS | Label-Free Ultra-Sensitive Metasurface Absorber Sensors for On-Site Detection of Bacterial Contamination in Water (WATER-PHOCUS) | Metasurface Biosensor, Real-Time Water Monitoring, Label-Free Detection, bacterial Contamination, dna oligamers |
| Water4All2025-134 | WATERWISE | WATERWISE – Advancing WasteWATER treatment and monitoring With smart innovative solutions for Small-scale and rural Environments | innovative cost-efficient monitoring, decentralized sanitation, contaminants of emerging concern, antimicrobial resistance, stakeholder involvement |
| Water4All2025-953 | WAVE | Off-grid portable wave-based analysis and treatment to produce drinking water for remote communities | Emerging contaminants, PFAS, MALARIA, PLASMA, SORBENT |
| Water4All2025-754 | WAVES | Water-Womb-Fetal-Gut Axis: drinking water derived chemical and microbial exposures and their impact on mother-fetus microbiome and resistome | Chemical exposure, microbiome, resistome, pregnancy, health |
| Water4All2025-648 | WISHES+ | Wastewater Irrigation Safety and Health in Edible food Supplements | Wastewater IRRIGATION, PFAs, microplastics, healthy supplements, in-vitro/in-vivo models |
| Water4All2025-620 | AQUA-RESIST | Development, Evaluation and Deployment of Rapid On-Site Antimicrobial Resistance Analyzers for Aquatic Environments | Antimicrobial Resistance (AMR), Phenotypic Surveillance, Water Quality Monitoring, One Health, Automated Field Analyzer |