

## Water4All Joint Transnational Call 2023 on Aquatic Ecosystems Services: Pre-proposals invited to submit a full proposal in step 2



Proposal No	Acronym	Title	Keywords
Water4All2023-706	AI4AES	Artificial Intelligence for Aquatic Ecosystem Services	Artificial intelligence, ecosystem services baseline, satellite images, citizen science
Water4All2023-693	AquaMOX	Regulation of aquatic methane oxidation and its capacity to mitigate methane emissions from aquatic environments.	Microbial methane oxidation, Ecosystem service, Methane, methanotrophs, Climate mitigation
Water4All2023-950	AQUAPURE	Aquatic Prioritization and Understanding of Risks of Emerging Contaminants in Small Water Bodies	chemical pollution, surface water bodies, monitoring, sensors
Water4All2023-444	ArcWaterSolu	Impact of extreme hydrological events in the Arctic on aquatic ecosystem services and mitigation through nature-based solutions	Extreme hydrological event; arctic aquatic ecosystem services; nature-based solutions; water quality
Water4All2023-334	BioTreatED	Advanced bio-based solutions to monitor and mitigate hormonal risks of irrigation waters originating from manure separation technologies	hormonal activity, bio-based solutions, manure, irrigation waters, groundwater
Water4All2023-191	BREATHE	Monitoring river metabolism to assess ecosystem services	river monitoring, in-situ sensor, dissolved oxygen, river functions, ecosystem services
Water4All2023-545	CREATE	Cross-REalm modelling and assessment of Aquatic ecosystem services: Towards a science-based design of nature-based solutions to tackle Eutrophication	Nature-based solutions, eutrophication, Baltic sea, cross-realm, ecosystem services
Water4All2023-38	CyaNoServices	SECURING FRESHWATER SUPPORTING SERVICES FOR BIODIVERSITY THREATENED BY HARMFUL CYANOBACTERIA ACROSS ECOSYSTEM BOUNDARIES	freshwaters, ecosystem services, cyanobacteria, biodiversity, innovation
Water4All2023-427	DeepThought	Evaluating nitrate transformation in aquifers using microbiologic and isotopic tools for an enhanced management of key groundwater ecosystem services.	groundwater, nitrate, global change, microbial diversity, water security
Water4All2023-471	DOWES	DOWES: Disclosing the Overlooked Wetlandscape Ecosystem Services	wetlandscapes, ecosystem services, water security, hydroclimate
Water4All2023-216	ECO-DARK	Coastal ecosystem service provisioning in warmer and darker waters	ecology, governance, water colour, climate change, fish
Water4All2023-652	ECO-GROUND	Integrated assessment of groundwater and aquatic ecosystems services	groundWATER, aquatic ecosystems, monitoring and modeling, management, ecosystem services
Water4All2023-968	ECO-WADE	Enhanced understanding of carbon and groundwater dynamics in European peatlands and their related ecosystem services	peatland hydrology, Groundwater, water quality, GHG emissions, restoration impacts
Water4All2023-996	EcoC2S	Ecosystem services to enhance the resilience of coastal regions and communities to flood risks in a catchment to sea perspective	Flood risk, disaster resilience, catchment to sea, social dynamics, ecosystem valuation
Water4All2023-24	EcoP	Responses of Freshwater Ecosystems to Phosphorus Cycling under Shifting Climate and Land Use Changes - Predictions for Future Scenarios	freshwater ecosystems, ecosystem services, phosphorus cycling, climate change, land use
Water4All2023-627	EcoTwin	Digital Twin-based solutions for enhanced integration of ecosystem services in water resource management	Floods, DROUGHTs, recreation, water management, critical habitat
Water4All2023-49	EcoValu-Wetlands	A framework for the valuation of Ecosystem Services of inland wetlands	wetland, groundwater, ecosystem services, flood attenuation, biodiversity
Water4All2023-232	ENGAGE	Europe Nutrient Management - Guided Approaches for Greater Export reduction	nutrients, regulation, hydrology, governance, policy
Water4All2023-802	FESTIVAL	Final Ecosystem Services in Transition: a View from the Aquatic Landscape	ecosystem service delivery, forest landscape, multi-functionality, water quality models, co-creation



Water4All2023-810	HALOBISE	Platform to understand effects of the harmful algal bloom holobiont in a changing environment to predict their impact on aquatic ecosystem services	algae-bacteria interactions, holobiome, proteomics, marine assessment, ecosystem service
Water4All2023-121	HighWISE	Analysing highland wetland ecosystem services and their values for informed decision making and resilient social-ecological systems	Highland wetlands, social-ecological systems, ecosystem services assessment, non-monetary values of ecosystem services, equitable decision-making
Water4All2023-419	IDB	An integrated database to identify transformation products of organic contaminants in water	transformation products;environmental risk;water quality;database;wastewater treatment technologies
Water4All2023-44	IM4ESValue	A framework of integrated methods to include local knowledge, and indirect and non-tangible benefits in the valuation of ecosystem services	Integrated assessment, ecosystem services valuation, catchment modelling, hydrology, social science
Water4All2023-83	INTERFACES	INTERactions and Fluxes Acting on Coastal Ecosystem Services	Water quality, Biogeochemical processes, Anthropogenic sources, Environmental impact assessment, Climate change
Water4All2023-772	InToES	Integrative tools to assess multiple pressures effects on aquatic ecosystem services and predict responses to protection and restoration actions.	effect-based assessment, multiple stressors, cause-effects relationships, ecosystem services, river basins
Water4All2023-655	INWATER	Integrated, Intelligent and Intelligible management of groundwater resources	groundwater supply, groundwater geoenergy, vulnerability and sustainability assessment concept, water governance, resilience in water management practices
Water4All2023-702	LaRES	Lake & Reservoir Ecosystem Services: Building Resilience to Climate Extremes	climate extremes, harmful algal blooms, aquatic ecosystem services, satellite monitoring, lake
Water4All2023-698	MARICA	MANagement of water Resources through an Innovative theory of Change Approach to boost ecosystem services	environmental monitoring, water resource management, ecosystem services promotion, water pollution
Water4All2023-526	MISSION	Microfluidic SenSors for rapld detectiOn of cyaNotoxins	Cyanotoxins, Microcystins, Saxitoxin, microfluidic sensors, electronic tongue
Water4All2023-600	MOSAIC	Modeling and observing a mosaic of processes for managing water ecosystem services and implementing adaptations to climate and land-use changes	water ecosystem services, agroecosystem resilience, functional performance indicators, ecohydrological modeling, nature-based solutions
Water4All2023-132	MP-CARE Europe	Enhancing Ecosystem Services through Cost-Time-Results Effective Assessment of Freshwater Microplastics Across Europe	Microplastics, monitoring, freshwater, ecosystem services, management
Water4All2023-305	PalusSalus	PalusSalus: healthy wetlands for water security, ecosystem integrity and transboundary cooperation	TRANSBOUNDARY WETLANDS; ECOSYSTEM SERVICES; WATER RESOURCES GOVERNANCE; ECOSYSTEM INTEGRITY;
Water4All2023-540	PanarmaINCA	Practical Approach to quaNtify Aquatic ecosysteM services And Reinforce Integrated Natural Capital Accounting	Aquatic Ecosystem Services, Natural Capital Accounting, Nature-based Solutions, Harmonized Guidelines, hydrological modeling
Water4All2023-499	PLURALAKES	Co-creating pathways to desirable nature futures of temperate lakes	Lake ecosystems; Water quality management; Plural valuation; IPBES; Scenario analysis
Water4All2023-494	PREDICT	Smart sensors for real-time monitoring and predictive management of coastal water algal blooms	Harmful Algal Blooms, sensors
Water4All2023-327	QIMFRES	Quantifying the impacts of multiple stressors on freshwater ecosystem services	Freshwater ecosystems, ecosystem services, biodiversity, multiple stressors
Water4All2023-420	R-AQUA2SERVE	Recycled Aqua Quality Assessment and Approaches for Uses to Sustainable Ecosystem Services Vitality Enhancement	Recycled water quality assessment, Integrated Monitoring and Mitigation, Microplastics, PFAS, Antibiotics
Water4All2023-567	REACTION	REACTION - Navigating the Risks of Hydroclimatic Extremes for Freshwater Ecosystem Services in Forest Landscapes	Quantification of risks associated with hydroclimatic extremes affecting the delivery of freshwater, Utilization of a multidisciplinary risk framework that integrates hazard+exposure+vulnerability comp, Mapping of risk components and the combined risks of hydroclimatic extremes for freshwater ecosystem, Combination of data harmonization efforts with data-driven modeling and stakeholder co-creation, Reduction of hydroclimatic risks and development of effective management and restoration actions tha
Water4All2023-282	READAPT	Bridging the Gap: Linking Riparian Vegetation Management to Water Quality and Sediment Transport Patterns	Riparian vegetation, Water Quality, Sediment Transport, aquatic ecosystem services
Water4All2023-685	RECHARGE	REstoring Catchments And Rivers under Global changE	Ecosystem services, drought, biodiversity, Nature based solutions, river catchment



Water4All2023-882	REFRESH	Innovative Remote Sensing and Ecosystem Services Modelling for Advancing Freshwater Ecosystem Restoration	freshwater restoration, remote sensing, ecosystem services
Water4All2023-719	REMEDY	Remote sensing & data assimilation for river ecosystem services	remote sensing, Data assimilation, ecosystem cascade model, end-user focused operational protocol, transnational applicability
Water4All2023-552	REWAVE	Resilient Watersheds through Ecosystem Services Valuation and Biodiversity Assessment	Sustainability, climate change, Monitoring, citizen science, greenhouse gas
Water4All2023-136	RIVER FOR AL	RIVER ecosystem services hindcasting and FORecasting through mACHINE Learning	riverscape, anthropogenic pressure, machine learning, evolutionary trajectories
Water4All2023-117	SecuCoast	Security and management of Coastal groundwater resources and marine ecosystem services	coastal aquifers, seawater intrusion, submarine groundwater discharge, marine ecosystem services, climate change
Water4All2023-723	SedEco4EU	SEDiment and water management tools for supporting aquatic ECOsystem services under exposure of hydropower regulations and extreme events	sediment management, hydropower, economic values, large scale hydrological modelling, aquatic ecosystem modelling
Water4All2023-60	SediTrack	Understanding and managing Sediment Transport processes in the Mediterranean area by using physical-based models and Remote Sensing techniques	sediment transport, water management, wetland protection, suspended sediment flux, soil erosion
Water4All2023-951	SEMA	Sensitivity of lakes and reservoirs to climate change: Monitoring and Assessment	Lakes, reservoirs, isotopes, climate change, water availability
Water4All2023-682	SentinelSpringS	Springs as sentinels of climate change and sustainability of aquatic ecosystems	Spring Hydrology, Groundwater Monitoring, Aquatic Biodiversity, Spring-dependent Ecosystem Dynamics, Localized Ecosystem Resilience
Water4All2023-363	SERVICO2	Impacts of climate, N and P deposition and land use on water as a driver of the greenhouse gases regulatory ecosystem service in headwater catchments	carbon balance, water quality, meta-analysis of long-term data series, socio-economical valuation, new sensors development
Water4All2023-398	SMARTD	Towards Sustainable Drought Management: Predicting and Monitoring Drought Impacts on Hydrological Ecosystem Services	drought, hydrological ecosystem services
Water4All2023-68	SOS-Ecosystems	Improving aquatic ecosystems and ecosystem services through protection from the multiple pressures of contaminants of emerging concern.	Healthy ecosystems and services; CEC and AMR ecosystem multi-stressors; Water Security; Knowledge-based water governance; Stressor mitigation
Water4All2023-46	SUSTAIN-R	Sustainable nutrient cycling of nitrogenous and phosphate wastes for aquatic ecosystem restoration and nourishment	nutrient cycling, ecosystem services, Capacitive Deionization - cdi, continuous membrane-free electrocatalytic device - CMED, ecosystem services
Water4All2023-225	TychoFilters	A Green Biotechnology to Prevent Harmful Algal Blooms in Freshwater Lakes	Phycoremediation, Ecosystem-restoration, eutrophy, Algae-blooms, Tycho plankton
Water4All2023-292	WASER	Aquatic Ecosystem Services Mapper (WASER)	ecosystem service mapping tool, nature-sensitive land use planning, society of knowledge, freshwater ecosystem service assessment
Water4All2023-790	WATERPATH	Understanding and improving water-driven ecosystem services for the production of drinking water and treated wastewater for agricultural reuse	internal and marine waters, sediments, aquatic organisms, compounds of emerging concern, risk analysis
Water4All2023-586	WaterWeave	Weaving knowledge together for healthy and resilient aquatic socio-ecosystems: towards a methodological and modelling framework	socio-ecosystems, integrative and interactive modelling, remote sensing, artificial intelligence, participatory
Water4All2023-400	WetHabMon4ES	Space-based monitoring of wetland habitat for ecosystem services assessment	wetlands, habitat monitoring, remote sensing, aquatic vegetation, virtual research environment
Water4All2023-995	WeTreat	Optimising Wetland-Based Solutions for Improved Micropollutant Treatment Efficiency from Wastewater Treatment Plant (WWTP) Effluent	Micropollutants, phytoremediation, Constructed Wetlands, Water Quality, Biodiversity Restoration