

# MEMBERSHIP

## EURAQUA VISION

EurAqua is the leading network for facilitating improved and coordinated water research, in support of knowledge-based water management and policy

## OBJECTIVES

The overall aim of EurAqua is to contribute substantially to the development of European freshwater science and its dissemination on a European scale, thus having a significant input on the development of the scientific basis of European water management and policy. More specifically, the objectives of EurAqua are:

1. Involvement in the programming processes of the EC on water-related research
2. Promoting the collaboration and integration of research resources and efficient transfer of knowledge between scientific institutions and between researchers
3. Bridging science and policy by providing support to the development of European water related policies
4. Contributing to sustainability and competitiveness of the European water sector on a global scale

## ACTIVITIES

### Network Meetings / EurAqua Management Board

The Management Board consists of the directors of the EurAqua Partner Institutes and meets twice a year to decide and follow-up on activities of the network

### Development of joint projects and research activities

One important objective of the EurAqua cooperation is to initiate and develop multiparty research projects and to promote actions leading to joint research programmes

### Scientific conferences

The first scientific EurAqua conference was arranged in 2008, with the subject "How can climate change be incorporated in river basin plans under the WFD?"

### Scientific and Technical Reviews (STRs)

STR is an annual event of EurAqua which offers a forum to discuss topical water research issues to define jointly priorities for European research as well as to identify and develop joint research projects

### Information to European institutions and organisations

EurAqua influences the decision-making, formulation and development of European freshwater research programmes and policy development. EurAqua is networking with European institutions and organisations and cooperates with the PEER-network.

### Initiatives for mobility of researchers

An important objective of EurAqua is to promote the mobility of researchers, in particular to offer possibilities for networking to young scientists. Exchange programmes between institutes are encouraged.

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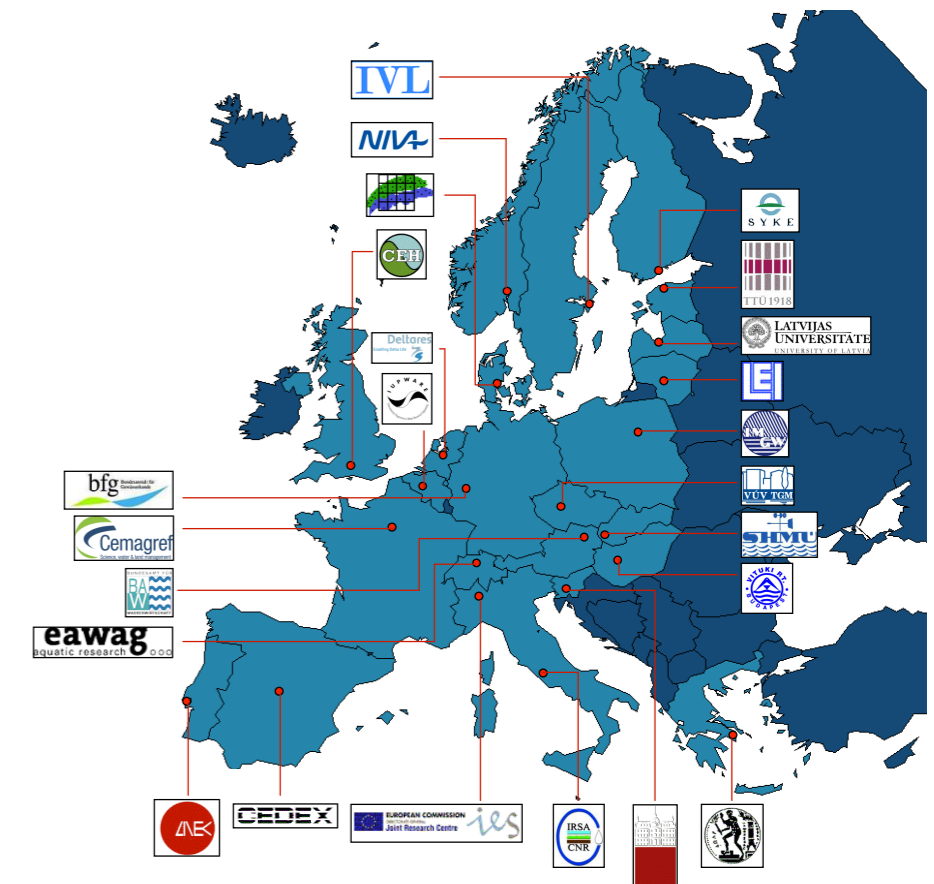
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## European Network of Freshwater Research Organisations

[www.euraqua.org](http://www.euraqua.org)



**The Federal Agency for Water Management in Austria (BAW) • Austria**

BAW is a subordinated office of the Federal Ministry of Agriculture, Forestry, Environment and Water Management. It works as advisory board for the Ministry in charge of water management federal states and private companies. The major activities: water quality determination; fishery and river ecology; soil and water management for preservation of the groundwater resources; hydraulic engineering; ecotoxicology. BAW has more than 90 staff including 12 research scientists, mainly working on fresh water topics, as well as 5 PhD students.



**InterUniversity Programme in Water Resources Engineering in Belgium (IUPWARE) • Belgium**

IUPWARE emerged from the integration of two post-graduate programmes, the IUP in Irrigation Engineering of the University of Leuven (K.U. Leuven), organized by the Institute for Land and Water Management and the Department of Hydraulics, and the IUP in Hydrology of the Free University of Brussels (V.U. Brussel), organized by the Department of Hydrology and Hydraulic Engineering. The number of total resident staff is about 50. There are currently 20 PhD students. IUPWARE has active links with Belgian networks, such as the Belgian National Committee of the International Hydrological Programme and the Flanders Water Network.



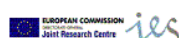
**T.G. Masaryk Water Research Institute (VUV) • Czech Republic**

The T.G. Masaryk Water Research Institute (TGM WRI) is the direct continuator of the State Hydrological Institute, set up in 1919, on the basis of a high scientific level, national interest and the political attention traditionally devoted to managing and treating water in the Czech Republic. Presently the TGM WRI is a public research institution established by the Ministry of Environment of the Czech Republic. Its scope of work consists in research, conceptual, professional and methodological activities, inclusive of forming and operating information systems, further in protecting the quality and amount of surface and ground waters, and in their usage in technical, economic and other relations and interactions. Preferentially, the Institute provides public administration with objective and professional services, in particular for creating and implementing state policies in the water area with regard to the Water Act. As concerns research, professional and methodological operations, the activities of the Institute have been expanded by creating information subsystems for the state administrations performance in the sphere of waste treatment, and an integrated approach to the prevention of environmental pollution.



**National Environmental Research Institute in Denmark (NERI) • Denmark**

The National Environmental Research Institute (NERI) is a part of University of Aarhus. NERI was established in 1989. NERI is responsible for providing the technical and scientific foundation for policy decisions related to nature and environment. NERI collects, processes and assesses information about nature and the environment and utilizes this knowledge as the basis for providing independent scientific advice to decision makers and various governmental agencies. NERI's scientific work is organized within five cross-disciplinary fields of expertise. Within the aquatic area, NERI is responsible for monitoring physical, chemical and biological parameters. Research topics include nutrient dynamics and water quality, also in a climate perspective. NERI is engaged in modelling the structure and function of aquatic ecosystems which contribute to its expertise in lake and river restoration. NERI has about 450 staff members organized in eight scientific departments. The aquatic area has nearly 100 research and laboratory staff.



**Institute for Environment and Sustainability (JRC) • EC**

Located in Ispra (Italy), the Institute for Environment and Sustainability (IES) is one of the institutes that constitute the Joint Research Centre of the European Commission. In line with the JRC mission, the aim of IES is to provide scientific and technical support to European Union strategies for the protection of

the environment contributing to a sustainable development. IES works in close collaboration with official laboratories, research centers and industries of the EU's Member States, creating a bridge between the EU's policies and the European citizen. A special consideration is given to the EU enlargement process by expanding all IES existing networks to the applicant countries. The combination of complementary expertise in the fields of experimental sciences, modeling, geomatics and remote sensing puts the IES in a strong position to contribute to the implementation of the European Research Area and to the achievement of a sustainable environment.



**Technical University of Tallinn (TTU) • Estonia**

Tallinn University of Technology (TUT) is one of the largest universities in Estonia, providing interdisciplinary higher education. The university is also the main research centre of technical, social and economic sciences in Estonia. The Institute of Environmental Engineering (IEE) at TUT performs research concerning processes determining surface water quality and its spatial and temporal variability, formation and transformation of nutrient load, purification of municipal and industrial wastewaters, treatment of municipal solid waste landfill leachates, handling and re-use of sludge, impacts of climate change on hydrological regime and surface water quantity and water quality including eutrophication. The IEE is responsible and coordinates the national surface water quality monitoring programme and has been a partner of several international projects including EU FP4, FP5 and FP6 projects. In recent years IEE has had a major role in Estonia in research supporting the Water Framework Directive. The institute is responsible executive in Estonia of HELCOM PLC-programme. The IEE participates actively in issues of protection of transboundary water bodies.



**The Finnish Environment Institute (SYKE) • Finland**

The Finnish Environment Institute (SYKE) is a governmental research and development institute. The tasks of SYKE include research and monitoring of the state and pressures of the environment and water resources, as well as possible ways to mitigate the problems and restore the environment. The institute, moreover, develops and applies environmental models and decision support systems to guide the use and protection of natural resources. SYKE is an independent R&D body which due to its historical role has close liaisons with environmental authorities, and related experience of environmental policy and its implementation. SYKE employs nearly 600 people, of whom more than 370 with a university-degree. SYKE has a Research Department of about 180 scientists divided into 7 research programmes covering both natural sciences and environmental social sciences.



**The French Institute of Agricultural and Environmental Engineering Research (Cemagref) • France**

Research at Cemagref covers two application fields: Freshwater Systems as well as Land-use and Agriculture. Cemagref's staff of almost 1350 includes approximately 700 research scientists in 10 regional Centers. Some 100 PhD students complete their PhD in fresh water research. Almost half of the staff is involved in fresh water research. Main research topics covered are: Watersheds and Fresh Water Ecosystems Management, Fresh Water Uses Management, Water-related Equipments and Water-related Natural Hazards Management.



**The Federal Institute of Hydrology in Germany (BfG) • Germany**

Within the federal system of Germany, responsibilities for waters are divided between national authorities and those of the federal states. As a scientific institution ranking as a supreme federal agency, the Federal Institute of Hydrology (BfG) is responsible for the German waterways in federal ownership. In this position, it has a central mediating and integrating function. The BfG advises the federal ministries (e.g. the Federal Ministry of Transport, Building and Urban Affairs (BMVBS) and the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, BMU) in matters of utilization and management of the waterways with an expertise that is unique in Germany – anchored in its three divisions “Quantitative Hydrology”, “Qualitative Hydrology”, and “Ecology”.



**The National Technical University of Athens in Greece (NTUA) • Greece**

The Department of Water Resources, Hydraulic and Maritime Engineering of the faculty of Civil Engineering of the NTUA was established in 1982. It has 35 staff members (20 faculty members holding doctorate degrees) and 30 scientists working as post-doctoral researchers. There are four laboratories within the Department: The Laboratory of Applied Hydraulics, Harbour Works, Sanitary Engineering and Hydrology and Water Resources. The Department undertakes basic and applied research in fields of aquatic environment and related civil engineering works.



**Water Resources Research Centre (VITUKI) • Hungary**

VITUKI Environmental Protection and Water Management Institute, Budapest is a public non-profit research institute primarily concerned with both basic and applied research studies for the Hungarian water management and environmental protection fields. It also fulfils some central functions of the Hungarian hydrological service. VITUKI has a staff of about 230 employees out of those 95 highly qualified professionals. Supported by hydraulic, hydrochemical etc. laboratories; equipment, instrumentation and computer facilities, VITUKI has emerged as one of the most complex water-oriented full-service professional organizations in the region. VITUKI has considerable experience in a comprehensive range of research, consulting and engineering services in the domains of hydrology, hydraulics, water quality; among those most relevant to the proposed project are: Water resources studies, flood control studies; Development of water quality objectives and criteria. VITUKI is one of the founding members of International Association of Hydraulics Research (IAHR). Hydrological Institute fulfils the role of the central body of hydrological service in Hungary, mostly in the field of operational data collection and hydrological forecasting.



**The Water Research Institute in Italy (IRSA) • Italy**

The “Istituto di Ricerca sulle Acque”, an operative body of the National Research Council (CNR), is a scientific institution aiming at supplying public authorities with the information required for the rational utilization and protection of Italian water resources. The total staff, almost entirely dedicated to inland water problems, consists of about 150 people (both permanent and temporary), 60% holding an advanced university degree. Main sectors of activity cover, respectively, the development of advanced tools for water resources management, the characterization of quality status in surface and groundwater, the development of chemical and biological processes for wastewater treatment and sludge disposal, in situ remediation studies.



**University of Latvia (LU) • Latvia**

University of Latvia, Faculty of Geographical and earth sciences, was founded in 1944. At present, the faculty covers three study lines (geography, geology and environmental science) providing education on four levels (Bachelor, Master of science, PhD, as well as teacher qualification study programs). The total number of students: 750, staff of the faculty, including research personnel 75; total number of research papers per year — 140. Staff of the faculty participates not only in around 30 national and several EU funded projects. The Faculty covers research in the same research directions, with the strongest research teams in biogeography, quaternary geology, geomorphology, environmental chemistry, landscape ecology, climatology and others. The faculty does have capacities in development of research in analysis of water quality modeling of aquatic resources.



**Lithuanian Energy Institute (LEI) • Lithuania**

LEI was established in 1956. The Institute has status of a state science institution. It is a technical re-search centre dealing with evaluation on influence of energy sector on water bodies, energy related research in thermal physics and fluid mechanics, nuclear safety issues. LEI encompass 10 research laboratories with a staff of 300. Laboratory of Hydrology of LEI has great experience on investigations of physical-geographical conditions influence on the river runoff and evaluation of the human activities impacts on conditions of water bodies. LEI have participated in major national and international hydrological research projects. Laboratory of Hydrology closely cooperate with Lithuanian and foreign universities. Laboratory has joint PhD studies with Kaunas University of Technology. In accordance with agreements between the Ministry of Environment of Lithuania and LEI, expertises of plans, programmes and projects are prepared by the laboratory of Hydrology.



**Deltares • The Netherlands**

Deltares is an independent Dutch institute for delta technology. It is a combination of WL | Delft Hydraulics, GeoDelft, parts of Rijkswaterstaat /DWV, RIKZ and RIZA, and a part of TNO Built Environment and Geosciences. The institute combines knowledge and experience in the fields of water, soil and the subsurface. It is the front-runner in the development, integration, distribution and application of knowledge for meeting the challenges in the physical planning, design and management of vulnerable deltas, coastal areas and river basins. The integrated approach allows Deltares to come up with innovative solutions. This approach is called “delta technology”. Deltares stands for the right balance between consultancy and research at both the national and international levels. Deltares works for and cooperates with the Dutch national government, provincial authorities and water boards, international governments, research institutes and market parties. The institute employs more than 800 people and is located in two cities: Delft and Utrecht.



**The Norwegian Institute for Water Research (NIVA) • Norway**

NIVA is an independent research foundation. Interdisciplinary work is performed within the major-research areas: Marine and Fresh Water Ecology, Water resources Management, Environmental Technology and Chemical- and Biological Analyses. The experience in fresh water research is in particular connected to: eutrophication, micropollutants, acid rain, water regulation, climate change and ecotoxicology. NIVA is also the major operator of national monitoring programmes. NIVA has 211 employees of which 116 are scientists. About 2/3 are connected to fresh water activities. Annually NIVA has full or part time PhD students.



**Institute of Meteorology and Water Management (IMGW) • Poland**

The Institute of Meteorology and Water Management is a research-development unit created on 30 December 1972 by merging the State Hydrological and Meteorological Institute with the Institute of Water Management. The Institute is supervised by the Minister for Environment. Basic statutory tasks of the Institute include scientific and development activities as well as state services in the following domains: meteorology, hydrology, oceanology, water management and engineering, water resources quality, wastewater management and sewage utilisation. Director and Scientific Council are statutory bodies of the Institute. The Institute has four branches in Gdynia, Krakow, Poznan and Wroclaw. About 1500 people work at IMGW. The Institute offers the following products and services: weather forecasts and actual weather data; hydrological forecasts and actual hydrological data; products of agrometeorological protection; assessments of wind energy resources; studies concerning domains: meteorology, hydrology, water management, hydrometry; historical data concerning meteorology and hydrology domains; trainings in hydrology and meteorology skills; distribution of IMGW publications.



**Laboratório Nacional de Engenharia Civil in Portugal (LNEC) • Portugal**

The “LNEC” is a state run institution of science and technology under the Ministry of Public Works, Transports and Communications, and it is the most important Portuguese research institute in the field of civil engineering, established in 1947, with an important activity in Portugal and abroad. In the Hydraulics Department, one of the operative departments, the research activity is carried out in the field of water, both where water resources itself and hydraulic works are concerned. It includes hydrology and river hydraulics, groundwater, hydraulic structures, estuaries and coastal zones, maritime works, water supply, wastewater and storm water drainage, environment and hydro-informatics. From a total staff of 110 there are 60 researchers of whom 40 are involved in fresh water.



**Slovak Hydrometeorological Institute (SHMU) • Slovak Republic**

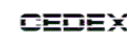
Slovak Hydrometeorological Institute (SHMU) is a state contributory organization and it falls under the Ministry of the Environment of the Slovak Republic. SHMU as hydrometeorological service is supporting the state administration of the Slovak Republic in the field of the air, water, and climate sectors, focusing on the monitoring and assessment activities. SHMU carries out a comprehensive operational, research and development activities and plays an important role in support of the policy making strategies and standard setting activities. SHMU is a member of several international organizations and takes part on the activities of such of them as WMO, EUMETSAT,

IAHS, UNECE (Water Convention), etc. SHMU participates on the Danube River Basin monitoring programme, a research and an activity carried out under the ICPDR Convention and is fully involved in the activities of the EU directives implementation in water sector in the Slovak Republic, e.g. Water Framework Directive, Directive on the Assessment and Management of Flood Risk, Directive on Dangerous Substances, IPPC Directive, etc.



**University of Ljubljana (UNI LJ SI) • Slovenia**

Despite the early beginnings of academic education in Slovenia, the University of Ljubljana was not formally established until 1911. The number of faculties and colleges has considerably increased over years. At present, the University comprises 20 faculties, 3 academies of arts and 3 university colleges. It is the biggest university in the Republic of Slovenia. The University of Ljubljana has nearly 50000 students, more than 5000 employees and 1800 teachers. The University also offers a wide selection of postgraduate studies, with MSc and PhD degrees offered in over 250 fields. The University departments collaborate closely with the various research institutes, where both students and university professors are engaged in research. <http://www.uni-lj.si/> Also, the University introduced the University Post-graduate Study Program in Environmental Protection, which involves 13 faculties from natural sciences, social sciences and humanities, technical sciences and medicine. The program is in parts carried out in collaboration with researchers from several institutions, who have qualified as university teachers at the University of Ljubljana, and teachers from universities abroad, who have been involved on the basis of international contracts and programs.



**The Spanish Center for Public Works Research and Studies (CEDEX) • Spain**

The “Centro de Estudios y Experimentación de Obras Públicas” is an autonomous national research and technical consultancy institute. Its activity covers all the civil engineering fields. In freshwater research the activity is: hydraulics, hydrology, hydrometry, databases, erosion and sedimentology, water resources planning, hydroinformatics, water quality, hydraulic works design, water treatment, sewage treatment, desalination, irrigation and national and international training courses. CEDEX's staff of 860 includes 306 scientists of whom 85 are involved in fresh water.



**Swedish Environmental Research Institute (IVL) • Sweden**

IVL is Sweden's leading environmental research organization. Financed both by the Government and the industry, IVL undertakes environmental research and provides impartial environmental decision support. IVL also undertakes contract work for rapid practical application of the research results. Sustainable solutions for today's and tomorrow's environmental problems require comprehensive understanding founded on interdisciplinary co-operation between scientists and professionals from different disciplines. For more than 40 years, IVL has carried out research and consultancy services in co-operation with both national and overseas universities, technical institutes, private companies and other organizations. IVL has 170 staff members of whom 80 are working with aquatic issues.



**Eawag: Swiss Institute of Aquatic Science and Technology (EAWAG) • Switzerland**

Eawag is an autonomous public research institute and belongs to the domain of the Swiss Federal Institutes of Technology (ETH domain). With water as the central focus Eawag research covers the following aspects: 1. aquatic ecosystems, 2. urban water management, and 3. chemicals and their effects in water. Eawag is involved in interdisciplinary research, academic and continuous education, and consulting. Eawag has ca 400 employees, of which 150 research staff and 100 PhD students.



**Centre for Ecology & Hydrology in the United Kingdom (CEH) • United Kingdom**

The Centre for Ecology and Hydrology (CEH) is one of the Centres and Surveys of the Natural Environment Research Council (NERC). CEH is the leading UK body for research, survey, and monitoring in terrestrial and freshwater environments and operates on a national and international scale, working with academia, governments and industry. CEH has 500 scientific staff, and well-equipped laboratories and field facilities at nine sites throughout the United Kingdom.

**EURAQUA**

EurAqua has members from 23 countries. The members altogether have 10 274 employees, of which 4912 are researchers. On average each member has participated in 23 EU-funded projects over the last 3 years.

