

# Partner search

## ***Water Research Institute, public research institution***

Regarding call Space 2010, 9.1. Pre-operational validation of GMES services and products

Specifically:

- SPA.2010.1.1-04 Stimulating the development of GMES services in specific areas
- SPA.2010.1.1-06 Coordination of national activities for land monitoring
- SPA.2010.1.1-07 Fostering downstream activities and links with regions

Ales Zboril, 14 September 2009

Water Research Institute is interested to become involved in a consortium submitting a proposal to any of the above topics.

### ***Company experience offered:***

Since 1919, the Water Research Institute has been involved in providing comprehensive solutions to problems relating to water resources in Europe. The institute has a unique history of almost one hundred years of research and practical experience in the definition and monitoring of water resources. An interdisciplinary approach has been the key to solving a range of problems. This is based on the coordination of teams of specialists and laboratories with sophisticated analytical facilities. The research is managed so that information from the laboratory and from the field is integrated using the most modern computer technology.

### **The specialist activities of the Water Research Institute are:**

- studies of the hydrology, hydrogeology and hydraulics of natural drainages and aquifers, including the physical and mathematical modelling
- chemical classification of water linked to toxicology and radiology,
- investigations of the biology and microbiology of water,
- understanding processes leading to the contamination of waters and methods of decontamination,
- monitoring, measuring and sampling waters in the field using appropriate instruments and procedures,
- chemical analysis of waters using specially adapted instruments,
- waste management research
- processing of data and creation of databases, including the compilation of Geographic Information Systems

Specifically:

- Comprehensive research and development in the areas of hydrology and hydraulics, including the physical and mathematical modelling
- Comprehensive research and development of methods in the areas of protection of groundwater, hydrogeology, landfills and old ecological burdens

- Field hydraulic, hydrological and hydrogeological measurements
- Expertise and consultancy in the areas of inorganic analysis, special inorganic and organic chemistry, microbiology and hydrobiology, including the assessment of standards and methods of measurement
- Expertise and consultancy, and comprehensive evaluation of radiation protection, special radiological service and assessment of the concentration of radionuclides in waters
- Analysis of samples of water, sediments, suspended solids and other components of the environment and waste
- Ecotoxicological assessment of substances, waste water and waste, detection of impacts of biological quality of water on ecosystems using special ecotoxicological methods
- Development of analytical methods for studying processes and phenomena in the aquatic environment
- Consultancy in the areas of GIS and the development of cartographic outputs
- Expertise and consultancy in the development of new water treatment technologies and modernization of waterworks and in the area of waste water treatment technologies
- Testing of the effectiveness of household waste water treatment plants and their development
- Testing of residual oil content in water discharged from separators of light liquids and grease separators
- Corrosive tests of materials used for water supply
- Assessment of hydrological phenomena, development of methods for their analysis and modelling, in particular for the extremes of surface runoff from basins, including protection against the effects of floods
- Quantitative water management assessment, research of methods for monitoring of water quality and water polluting processes, assessment of management practices of water resources
- Assessment of anthropogenic impacts on surface water quality, focusing primarily on industrial sources of pollution
- Professional assessment of operating rules of waste management installations
- Technical assistance in the development and assessment of waste management practises and their application
- Assessments of current status of the environment and its populations, including restoration programmes

**Contact:**

Mgr. Aleš Zbořil  
 Department of Water Protection and Informatics  
 Water Research Institute  
 Podbabska 30, 160 62 Praha 6  
 (+420) 220 197 400,  
 ales\_zboril@vuv.cz