

Ambiente

# Partner Search in ENVIRONMENT

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----- PARTNER SEARCH ENV-PT-EPN-3 -----

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<Reference n.: ENV-PT-EPN-3>

<Deadline: unknown>

<Programme: ENVIRONMENT>

<Project Title: Development of Guidelines for a New approach to the Assessment of Coastal Water Resources Availability and Quality, for Drinking and Recreational Uses>

<Financial Scheme: >

<Description: The main purpose of this project is to develop a 'Design and Implementation System to Analyse Coastal Water Resources Quality' on Coastal Hydrographical basins. The resulting scheme for coastal water resources classification will be achieved through quantitative studies at different spatio-temporal scales in association with the study of socio-economic impacts of urban development and tourism on the coastal zone, as impacted by activities on the coast and in adjacent inland drainage basins. During the proposed three to four year study, different types of experiments will be conducted at selected sites at various temporal resolutions over the range of (1) instantaneous (daily) occurrences, (2) phenomenological events (monthly and seasonal processes), (3) historical (past and future) events, and (4) geological (large-scale) coastal behaviour. For this type of experimentation, specialised cutting-edge field equipment (e.g. groundwater seepage meters) will be used to acquire a complete data set for surface and subsurface particulate and fluid exchanges across the coast.

An important and innovative task will be the evaluation of socio-economic impacts on coastal water quality. This evaluation will include definition of economic coastal water values that incorporate exploitation (use) values and environmental aspects. A set of scenarios will be established to evaluate changes in economic coastal water values as a function of different uses and changes in small-, medium-, and long-term spatio-temporal scales. This approach will be performed in close connection with coastal managers and national and international partners. Application of a water resources assessment plan will help evaluate environmental impacts of management policies and suggest acceptable use and best management practices during urbanisation of coastal areas. Project results are expected to significantly improve the scientific knowledge and administrative control of coastal water resources availability and quality at different temporal and spatial scales. The results will be of direct use to land-use planners, environmental regulators, and socio-economic decision makers who can direct coastal urban development for the purpose of ensuring adequate supplies of good-quality water for drinking and recreational uses. >

<Organisation Type: Centro di Ricerca>

<Partner Sought: Not specified>