End-to-end Demonstrator for improved decision making in the water sector in Europe (**EDgE**)

TIMELINE: November 2015 to December 2017

EDgE is a proof-of-concept research project which will combine climate data and a state-of-the-art multi-model hydrological modelling chain to deliver a demonstration water-oriented information service.

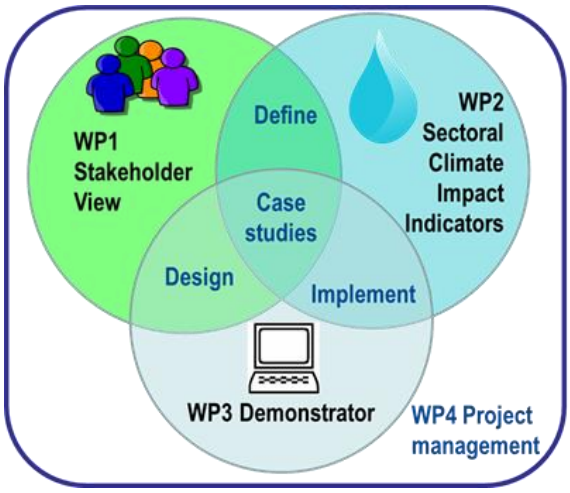
The EDgE team will work with key European stakeholders representative of private and public sectors to jointly develop and tailor approaches and techniques to assist them in using improved climate information in decision-making, and support development of climate change adaptation and mitigation policies.

By placing stakeholders at the heart of the research, EDgE bridges the gap between the data generated by climatological and hydrological models and the information needed by decision-makers. EDgE will:

- Survey stakeholders' needs in seasonal forecasting and long-term projections for water management and planning
- Understand current barriers in the use of such information for decision-making
- Design an interface that can be used by users of different scientific and technical knowledge
- Enable robust assessment of the uncertainty and skill in the derived products

The Sectoral Information System (SIS) demonstrator will process and combine hydrological and climatological data and model output into Sectoral Climate Impact Indicators (SCIIs) relevant to the European water sector, for variables such as river flow and groundwater level. The derived indicators and tailored information products will deliver seasonal forecasts and longer-term projections to users.

The EDgE project is structured in three complementary work packages (WPs). A fourth WP provides project management and ensures engagement with the wider Copernicus Climate Change Service (C3S) which responds to environmental and societal challenges associated with human-induced climate change.



GET INVOLVED IN EDgE:

- Stay updated with the latest EDgE ***news*** through the C3S website at http://climate.copernicus.eu/

- Join a ***stakeholder Focus Group***

  Norway: snow-dominated region, with a powerful hydropower sector strongly dependent on the hydroclimate, and local long-term planning largely impacted by possible shifts in hydroclimatic risks. (Contact: Hege Hisdal hhi@nve.no)

  Spain: shared water management and water scarcity in a semi-arid climate, where water allocation decisions at short- and long-term must account for multiple and possibly conflicting water needs. (Contact: Tatiana Ortega tatiana.ortega@chj.es)

  UK: diverse and strongly regulated water supply-demand systems, where climate change impact must be accounted for in all long-term water and drought management plans. (Contact: Megan Gawith megan.gawith@environment-agency.gov.uk)

- Conduct a ***Case Study***

  A series of topical Case Studies representative of typical water-related decisions will assess the value of the information and the effectiveness of the SIS. Existing Case Studies include:

  - Long-term water resource planning and adaptation measures in Norway
  - The value of European SIS compared with existing national services in the UK
  - Operation and planning of water supply in Spain.

  The Case Studies will be written up as a series of factsheets. Contact the Project Leader (below) to offer another Case Study, in a Focus Group country or elsewhere, to explore the use of the demonstrator SIS.

CONSORTIUM MEMBERS:
Centro Tecnológico del Agua, Spain (Cetaqua); Climate Partnership LLC, Princeton, USA (CPL); Environment Agency, UK (EA); Helmholtz Centre for Environmental Research, Germany (UFZ); Mediterranean Network of Basin Organisations, Spain (MENBO); Natural Environment Research Council Centre for Ecology & Hydrology, UK (NERC-CEH; *Coordinator*); Norwegian Water Resources & Energy Directorate, Norway (NVE).

For more information: contact Project Leader Christel Prudhomme chrp@ceh.ac.uk

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