



EDgE – A pan-European proof of concept demonstrator for monthly to multi-decadal decision making in the water sector

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The EDgE project (End-to-end Demonstrator for improved decision making in the water sector for Europe) is a proof-of-concept web service (or demonstrator) developed in order to support decision making for the water sector at monthly, seasonal, and multi-decadal lead times. The demonstrator is being co-developed with close interaction between computer scientists, hydrologists and modellers and stakeholders representing key decision makers for the water sector in Europe. This process has included decision-makers from Spain, Norway and the UK, representatives of operational water resource management, hydropower and public water supply sectors respectively.

This talk will present the feedback that stakeholders have provided at several focus groups, outlining the hydro-climate services they currently use, and those that they require for their operational decision-making procedures. The presentation will then demonstrate the pre-operational EDgE web service that provides state-of-the-art multi-modelled data on 7 terrestrial Essential Climate Variables from precipitation and soil moisture to routed river discharge, as well as Sectoral Climate Impact Indicators that identify the risk of magnitudes of change in these climate variables for both short term forecasts and longer term climate projections. The demonstrator has incorporated the stakeholder feedback, paying particular close attention to presenting the skill and uncertainty in the forecasts and climate projections. EDgE is a part of the Copernicus Climate Change Service (C3S) programme bringing together climate information for over 10 sectors, including water management, infrastructure and energy. The information gathered by the EDgE project on the water sector's needs in decision-making will be fed into the final C3S product.

On behalf of the EDgE project partners, see <http://climate.copernicus.eu/edge-end-end-demonstrator-improved-decision-making-water-sector-europe>