

CONTACT US

Paolo Burlando
DAFNE coordinator

Dept. of Civil, Environmental and Geomatic Engineering ETH Zurich, Institute of Environmental Engineering, HIL D22.3 5 Stefano Franscini-Platz CH-8093 Zurich, Switzerland

e-mail: paolo.burlando@ethz.ch

www.dafne-project.eu

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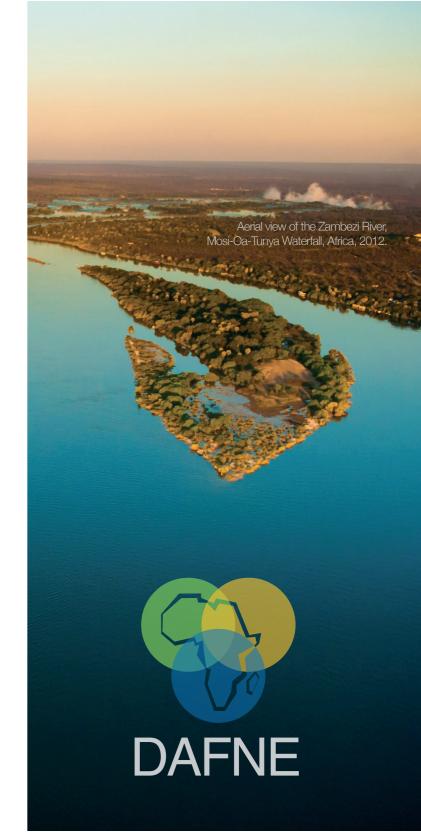












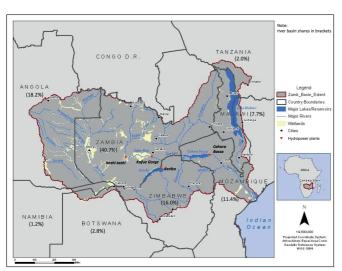


CASE STUDY

ZAMBEZI RIVER BASIN

Local partners: UNZA, EMU

The Zambezi River Basin is the fourth largest basin of Africa with an area of 1.32 million km² shared by eight countries (Angola, Botswana, Malawi, Mozambique, Namibia, Tanzania, Zambia and Zimbabwe) and populated by almost 40 million inhabitants. In 2004 an agreement among the eight riparian states was signed to create the Zambezi Watercourse Commission (ZAMCOM) with the purpose of enhancing the cooperation over the shared water resource of the Zambezi River Basin to increase agricultural yields, hydropower production and economic opportunities.



(Source: based on Water Balance map (http://waterbalance.org/projects-page/zambezi/



Decision Analytic Framework to explore the water-energy-food Nexus in complex transboundary water resources of fast developing countries

The overall objective of DAFNE is to establish a decision-analytic framework (DAF) for Participatory and Integrated Planning (PIP). The DAF is a multi-step procedure that will enable the extensive, quantitative analysis of the anticipated effects of alternative planning options on the broad range of heterogeneous and often competing interests in transboundary river basins ultimately facilitating comparison and negotiation based on

- active engagement of stakeholders from the two case studies in the process from the outset of the project, and
- integration of multiple and diverse international and local academic expertise ranging from natural sciences, water engineering, and environmental economics, to water governance and laws in order to develop tools to facilitate social understanding of the impact and support comparative analysis of the alternative through negotiations.



CASE STUDY

OMO-TURKANA BASIN

Local partners: WLRC, IWMI, ACCESS

While Ethiopia is one of the countries with the highest hydro-power potential in Africa with 45,000 MW, only about 5% has been exploited. To satisfy energy and water demands and enhance the national economy, the Government of Ethiopia is developing the Gibe Hydroelectric Cascade scheme and the Kuraz Sugar Development Project in the Omo basin. These developments will alter the natural flow and sediment regime, leading to changes in the temporal and spatial water availability in the Lower Omo Valley and Lake Turkana, the inflow of which largely depends on the Omo River.

