

WATERWORKS 2017 RDI FUNDED PROJECTS BOOKLET

Project: Simulating Tourism Water Consumption with Stakeholders

Acronym: SIMTWIST

Project Coordinator: Bas Amelung; bas.amelung(at)wur.nl

Institution: Wageningen University and Research - Country: The Netherlands

Project partners

Institutions: Wageningen University and Research

Country: The Netherlands

Contact points:

-Bas Amelung: bas.amelung(at)wur.nl

-Maria Reyes: maria.reyesperez(at)wur.nl

Project partners

Institutions: University of Alicante

Country: Spain

Contact points:

-Antonio Rico: am.rico(at)ua.es

-Maria Hernández: maria.hernandez(at)ua.es

-Rubén Navascues: rvnascues(at)ua.es

-Sandra Ricart: sandra.ricart(at)ua.es

Project partners:

Institutions: University of Bologna

Country: Italy

Contact points:

-Elena Toth: elena.toth(at)unibo.it

-Cristiana Bragali: cristiana.bragali(at)unibo.it

Project structure (WPs description):

WP0-Project management

WP1-Water supply, demand and scarcity: This work package entails the establishment of a baseline of water availability for both case studies, identifying main drivers of water demand from the tourist sector and the modelling of future water supply and demand for a 20-30 year plan horizon.

WP2-climate change and policy intervention scenarios: In this work package several climate scenarios will be selected (from previous climate scenarios or adapted) and several socio-economic scenarios of drivers of water demand will be developed. In addition, a gross list of possible policy interventions will be prepared which later will be tested as intervention strategies.

WP3-Participatory modelling and behavioural rules: This work package focuses on understanding and eliciting the behaviour rules that guides the decision-making in the tourist (water) sector through a participatory modelling approach. With this, the main elements and processes of the water system linked to stakeholders' perceptions will be overviewed through several sessions of role playing games.

WP4-Hydrosocial cycle and tourists' perceptions: This work package aims to uncover the interactions between water, social power and infrastructure. Cause-effect relationships of water availability and social demand will be analysed, integrating the macro-level with the micro-level.

WP5- Agent-based model: This work package explores the effectiveness of possible policy measures to reduce the water consumption by tourists and tourism stakeholders. These actors are modelled explicitly, using the behavioural insights obtained from WP3 and WP4. The complex and changing environment is represented based on the results of

WP1. A range of future scenarios and policy interventions (developed in WP2) will be explored, as well as local adaptation measures on climate change and water efficiency.

WP6- Communication: Several methods will be used for the diffusion of the project to local stakeholders and beyond. This includes a webpage, flyers, social media interaction (such as FB and twitter), posting on official tourist and water company sites, in order to make people aware of the project and what it is aimed for.

Contact person(s) for Communication activities:

Bas Amelung- bas.amelung(at)wur.nl

Contact person(s) for Dissemination activities (for open data & open access activities):

Maria Reyes-maria.reyesperez(at)wur.nl