



Università
Ca'Foscari
Venezia

PROJECT ACRONYM AND TITLE: SECurity - Social-ECological Interdependencies in TransboundarY water resources systems

FUNDING PROGRAMME: HORIZON 2020

CALL: H2020-MSCA-IF-2017-GF – Marie Skłodowska-Curie Individual Fellowships – Global Fellowship

SCIENTIFIC FIELDS: Hydrology, water management, social and industrial ecology, sustainable development

HOST DEPARTMENT: DE - Department of Economics

FELLOW: Animesh Gain

SCIENTIFIC RESPONSIBLE: Carlo Giupponi

FINANCIAL DATA:

Project total costs	Overall funding assigned to UNIVE
€ 262.269,00	€ 262.269,00

ABSTRACT:

More than 286 internationally shared river basins supply 60% of global freshwater. The United Nations and the Council of European Union has highlighted the potential of transboundary water diplomacy. The complex interdependencies between humans and water in these transboundary basins remain poorly understood in the newly proposed discipline of socio-hydrology. Therefore, an assessment of social-ecological interdependencies in transboundary water resources systems is now urgently required for implementing target 6.5 of SDGs and for fulfilling the EU's commitment on international peace and security. The overall objective of the envisaged research is to develop new understandings of complex human-water systems in large transboundary river basins with an aim to contribute scientific advancement of socio-hydrology and to enhance transboundary cooperation for international peace and security. The proposed research will be hosted in two highly qualified laboratories (during outgoing phase at MIT, with Prof. Susskind and during return phase at UNIVE with Prof. Giupponi). Going beyond the state-of-the-art, the proposed project will develop for the first time: an analytical framework of complex transboundary water system; comparative network analysis for social ecological systems in two river basins; consideration of negotiation theory and role-play game in developing transboundary cooperation strategies. The proposed project is fundamentally interdisciplinary in characters. The scientifically innovative and socially relevant (for EU and the Globe) proposed project will help me achieve higher levels of professional maturity through innovative research, advanced training, the transferrable skills and interdisciplinary experiences in two highly qualified institutions both at MIT and at UNIVE. These unique experiences will support to achieve my short-(e.g., human-water interactions), medium- (e.g., young investigator) and long-term (permanent position in academia) career goals.

Planned Start date	Planned End date
1st September 2019	31st August 2022

PARTNERSHIP:

1 Università Ca' Foscari, Venezia	Venice (IT)	Coordinator
2 MIT- Massachusetts Institute of Technology	Massachusetts (US)	Partner
