



Università  
Ca'Foscari  
Venezia

**PROJECT ACRONYM AND TITLE:** SIMARIS – Strategic Investments in Mitigation, Adaptation and Resource Recovery Innovations at Basin Scale

**FUNDING PROGRAMME:** Horizon Europe

**CALL:** Marie Skłodowska-Curie Postdoctoral Fellowships

**DESCRIPTORS:** Natural resources and environmental economics

**HOST DEPARTMENT:** Department of Environmental Sciences, Informatics and Statistics

**SCIENTIFIC RESPONSIBLE:** Carlo Carraro

**FELLOW:** Maksud Bechanov

**FINANCIAL DATA:**

Project total costs	Overall funding assigned to UNIVE
€ 172.750,08	€ 172.750,08

**ABSTRACT:**

Global warming and consequent increase in frequencies of extreme weather events (flooding, drought, landslides, etc.) have become major threats to livelihoods across many river basins. Additionally, increasing scarcity of energy, water, land and nutrients threaten food, health and environmental security and require more efficient uses of resources. Yet, most prevention policies aim at only short-term measures of protection or recovery and most basin-scale hydro-economic assessment models do not consider long-term causes, consequences and economic effects of such changes and related policies. Focusing mostly on water, land or energy use efficiency enhancement, water-energy-economic modeling research do not adequately address circular economy options of improving resources use efficiency and reducing Greenhouse Gas emissions. This research therefore investigates long-term investments required for climate change mitigation, adaptation and resource recovery innovations at river basin scale. This will be achieved through applying a novel approach of integrating intertemporal macroeconomic growth model with process-based hydro-energy-economic model. Offering demanded policy-relevant solutions to river basin managers and enriching water management research with novel methods, this study greatly enhance the scientific career of the author.

Planned Start date	Planned End date
01 <sup>st</sup> November 2022	31 <sup>st</sup> October 2024

**PARTNERSHIP:**

<b>1</b> Università Ca' Foscari Venezia	Venice (IT)	Coordinator
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