


**Research Project Fact Sheet**

<b>Title of Project</b>	effective tOol to assist decision makeRs for streamllning mitiGation and adaptatlon actioNs
<b>Project Acronym</b>	 ORIGIN
<b>Funding Program</b>	FREDU INTERNAL FUNDING
<b>Total Budget</b>	€16 000.00 (€10 000.00)
<b>Starting – Ending Date</b>	09/2023-09/2025
<b>Consortium</b>	1. ISTOS Research Center (ISTOS)
<b>Project Objectives</b>	<p>The resilience of the built environment and communities to natural and man-made hazards is consolidating worldwide as a key requirement in the field of urban planning and building design, and there is an increasing awareness that Sustainable Development Goals (SDG) and priorities of the Sendai Framework cannot be achieved without a comprehensive approach able to promote the effective implementation of Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA) measures. Post-earthquake observations and numerical studies have verified that the existing building stock in the Mediterranean region and in Europe in general can withstand only small to moderate magnitudes of seismic action. In fact, the economic losses resulting from natural hazards have increased almost 10 times during the past 40 years with 10 billion yearly losses only in the EU context. Vulnerability and impact assessments (including simulation-based scenarios) represent an effective approach to make science understandable to decision makers and streamline mitigation/adaptation actions, especially if integrated with effective tools for cost-benefit and multi-criteria analyses, tailored according to the needs of the end-users, to assess the effectiveness of alternative options. The collection and utilization of data has always been an integral part of research activities. The possession of data expands the competences of a research team as it allows the implementation and planning of future research. This project will develop the ORIGIN database with pertinent rules for its use. The aspiration of the research team is to consolidate the data for the Cyprus building stock in the proposed database and collaborate with stakeholders to drive/underpin decision-making strategies at local, national and international levels through science, evidence and knowledge.</p>
<b>Work Packages</b>	<p>WP1 Development of the ORIGIN survey form and test its robustness</p> <p>WP2 Development of the ORIGIN app to support the collection of data</p> <p>WP3 Development of the ORIGIN database</p> <p>WP4 Create vulnerability classes and vulnerability curves</p>
<b>External References</b>	