

- ☒ I offer my expertise to participate as a Partner in a Horizon Europe Project
- ☐ I am planning to coordinate a project and I am looking for Project Partners

TOPICS OF INTEREST

Please insert the topics or areas of interest.

We are interested in developing interdisciplinary initiatives, convening a space of encounter to design future ways of living, situated at the crossroads between art, culture, social inclusion, science, and technology. For this reason, we offer our expertise to the project HORIZON-CL2-2022-HERITAGE-01-10: The New European Bauhaus – shaping a greener and fairer way of life in creative and inclusive societies through Architecture, Design and Arts.

PARTNER INFORMATION

The L.E.S.S. Materials group of Universidad Adolfo Ibáñez, Chile, focuses its research on **developing engineering solutions for stronger and more durable materials by adding valorized waste** from different industries. Our objective is to **promote more sustainable solutions for construction materials in a circular economy ecosystem**. We follow the concept of **material efficiency** as a climate mitigation strategy. For the latter, we trace the behavior of materials throughout its life span **using destructive and non-destructive experimental techniques; we apply and develop analytical and numerical models of solids and fracture**. Our collaborators include undergraduate and graduate students, national and international collaborators.

Description of the Legal Entity

Legal name: Civil Engineering, School of Sciences and Engineering, Univiersidad Adolfo Ibáñez
Commercial name: L.E.S.S. Materials group

- | | | |
|--|---|--|
| <input type="checkbox"/> Industry /SME | <input type="checkbox"/> Research Institution | <input type="checkbox"/> Public Administration |
| <input checked="" type="checkbox"/> Higher Education | <input type="checkbox"/> NGO | <input type="checkbox"/> Other: <i>Please specify</i> |

Description of the (Research) Team

Our team is composed of:

- Researchers (Ph.D. level)
- Researchers (Graduate level)
- Researchers (Undergraduate level)
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Expertise of the Team Leader

Dr. Antico is an assistant professor at the School of Engineering and Sciences of Adolfo Ibáñez University (UAI). He obtained his Ph.D. and M.Sc.E. with majors in cementitious materials at Purdue University. He is an Aeronautical Engineer, graduated from the National University of La Plata. He has been involved for more than 15 years in academia and research. At an early stage as a researcher, he participated in the design

manufacturing, and structural assembly of a 100 kg instrument for the SAC-D / Aquarius satellite launched in 2011.

His main research interests are the chemical-physical-mechanical-fracture characterization of cementitious materials optimized with valorised materials. Dr. Antico uses destructive and non-destructive experimentation combined with theories and models of solid and fracture mechanics to improve the mechanical performance and durability of construction materials combined with valorised materials.

He has published more than 25 scientific and technical documents, most of them in high-impact international scientific journals and international conferences. Part of the research that Dr. Antico did in the field of structural design was funded by the National Commission for Space Activities (CoNAE). The research that Dr. Antico develops in the field of cementitious materials was funded initially by the Indiana Department of Transportation, and in Chile by the National Fund for Science and Technological Development (Fondecyt) of Chile and UAI.

Dr. Antico is also deeply involved with training human resources with a vision towards mitigating climate change and meeting the UN sustainable development goals. His research group, L.E.S.S. materials, is made up of undergraduate and graduate students, national and foreign collaborators.

Potential role in the project

☒ Research

☐ Training

☐ Dissemination

☒ Other: Online participatory platform

Already experience as a	Coordinator	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	Partner	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	Expert Evaluator	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES

CONTACT DETAILS

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Please send this form back to: contact@net4society.eu