

**FACT SHEET BIP**

<b>Name institution</b>	Polytechnic University of Coimbra, Coimbra Institute of Engineering
<b>Title / Name BIP</b> <i>(Enter the official name of the BIP)</i>	From Waste to Byproducts: New Paradigms to Construction Engineering
<b>Abstract</b> <i>(Brief summary of the activity – what it is about in 3–5 lines)</i>	This BIP is intended to give students a general overview of the current state of the art of waste valorisation in the construction sector, giving emphasis not only on designing and applying such byproducts but also on environmental issues and economic viability during the theoretical lectures (online) and the physical week.
<b>Goal</b> <i>(What is the main objective or purpose?)</i>	Students are invited to work on laboratories and prepare dummy samples (road pavement, soils, mortar or concrete) and sample in which some materials have been replaced by by-products. This approach will help students to understand the challenges and the application of waste valorisation in the construction sector.
<b>Topics covered</b> <i>(List the key themes or subject areas that will be addressed)</i>	The BIP aims to gather students and faculty from the following scientific areas: Environmental Sciences, Chemistry, Architecture, Industrial Engineering, Civil Engineering, Mechanical Engineering, and Economics, among many others
<b>Expected outcome(s)</b> <i>(What should students gain or achieve by the end?)</i>	1) Enhancing interprofessional collaboration between students with different backgrounds. The correct valorisation of waste can only be achieved when the three sustainability pillars are included in the study. 2) Promoting intercultural understanding by exposing students to different realities according to each country's goals, needs, citizens, and economic growth. 3) Fostering connections between academia and society to develop and present solutions to organisational or societal challenges and difficulties.
<b>Start and end date of the BIP</b>	13-17 October 2025
<b>Content of virtual component</b> <i>(Describe any online or hybrid elements –</i>	The session will be held the week before the physical week and works as an

<i>e.g., webinars, online modules, collaborative tools)</i>	introductory session to the BIP. All the participants will introduce themselves as well as most of the lecturers. The lesson topics and the methodology will be presented and the work groups will be formed
<b>Start and end date of the virtual component</b>	8 of October 2025
<b>Maximum number of students</b> <i>(Total number of participants allowed)</i>	45
<b>Maximum number per university</b> <i>(Limit per institution, if applicable)</i>	3 (maximum of 5 from the Euclides Network)
<b>Webpage</b>	
<b>BIP ID</b> <i>(If already available)</i>	2024-1-PT01-KA131-HED-000235790-42