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# LIFE-C: PROMOTING LIFE CYCLE THINKING IN HIGHER EDUCATION

[1]Lidia Lombardi, [2]Gabriella Arcese, [2]Grazia Chiara Elmo, [1]Barbara Mendecka, [3]Szymon Sobek, [4]Krzysztof Pikon, [5]Aleksandra Kuzior, [6]Konstantinos Moustakas, [6]Maria Kyriazi, [7]Mika Horttanainen, [7]Kaisa Grönman, [7]Mariam Abdulkareem, [7]Musharof Khan and [7]Aleksandra Woszczek

[1]*Department of Engineering, Niccolò Cusano University, Rome, Italy*
[2]*Department of Economics, Psychology and Communication Sciences, Niccolò Cusano University, Rome, Italy*
[3]*Silesian University of Technology. Department of Heating, Ventilation and Dust Removal Technology, Gliwice, Poland*
[4]*Department of Technologies and Installations for Waste Management, Silesian University of Technology, Gliwice, Poland*
[5]*Department of Applied Social Sciences, Silesian University of Technology, Zabrze, Poland*
[6]*National Technical University of Athens. School of Chemical Engineering. Unit of Environmental Science & Technology, Athens, Greece*
[7]*Lappeenranta-Lahti University of Technology. Department of Sustainability Science. Lappeenranta, Finland*



## Abstract

One of the highest priority EU goals is to protect the environment and fight against climate change. Within this framework, the environmental cost of any product, service, or activity must be assessed. Life-C project aims to prepare students and professionals across all activity sectors to become true agents of change, by providing them with knowledge and tools to address their future choices and decisions minimizing environmental impacts. The project will develop a specific course on Life Cycle Assessment (LCA), based on innovative teaching methodologies. The general objective of the project is to minimize the environmental, economic, and social impact of the products and activities on future economies and industries. The partners propose to contribute to reaching this objective by raising Life Cycle Thinking (LCT) awareness, providing an e-learning LCA course, available on a devoted e-learning platform, for international students of engineering and economic faculties, infusing the required technical and scientific knowledge for understanding the sustainability of production processes and technologies with an LCT approach, to support the achievement of the UN Sustainable Development Goals n. 11 “sustainable cities and communities” and n. 12 “responsible production and consumption”. All three dimensions of sustainability – environmental,

economic, and social – are addressed. The project is coordinated by the Silesian University of Technology (SUT), in Poland. The partners of the projects are Niccolò Cusano University (Unicusano), in Italy, Lappeenranta-Lahti University of Technology (LUT), in Finland, National Technical University of Athens (NTUA), in Greece.

**Keywords:** : life cycle assessment, life cycle costing, social life cycle assessment, life cycle sustainability, innovative teaching methodology

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