

The choice of material from an environmental perspective: from the European policies to the Life Cycle Assessment role - Prof. M. Delogu, Università di Firenze

Monday 16 June 2025 14:30 (1h 45m)

The aim of the seminar is to share knowledge on policies, regulations and practices (i.e. methodologies, tools, and standards) functional to the development of sustainable industrial products and technologies with a focus on the importance of material's choice in the circularity perspective. Particularly, special emphasis will be dedicated to the EU regulatory framework conducive to achieving the 17 SDGs of the 2030 SD Agenda and to the main EU flagship initiatives and policies (i.e. the European Green Deal and Circular Economy Action Plan). In this context, the concept of Life Cycle Thinking, and its implementation through methodologies based on the Life Cycle Sustainability Assessment approach, plays a crucial role for evaluating potential environmental benefits of different materials and design solutions that concur to identify the best sustainable trade-off along the whole product life cycle. The importance and the reason for the application of the LCSA approach will be explained and all the steps of the methodology will be described also through the exposition of different case studies