



INAUGURAL LECTURE

Professor Daniela Pigosso

DTU Construct

“Towards Design for Absolute Sustainability”

Friday
14 March 2025
15:00-16:00
DTU Lyngby
Building 101
Glassalen

Towards Design for Absolute Sustainability of Professor Daniela C. A. Pigosso

The latest major paradigm shift within design for sustainability occurred in the 1990s, with the groundbreaking view of the need for life cycle thinking, as opposed to the dominant focus on cleaner production (1980s) and end-of-pipe-solutions (1970s). Nevertheless, society’s most well-intended efforts towards sustainability have not yet achieved the expected benefits. Six out of nine planetary boundaries (i.e., absolute limits for a safe operating space for humanity) have already been surpassed, and the global sustainability challenges (e.g., climate change, biodiversity loss, toxicity, resource depletion) have never been greater. There is a fundamental need to design innovative and transformative production and consumption systems capable of meeting current and future needs, while staying within the carrying capacity of the Earth System. A paradigm shift towards Design for Absolute Sustainability is key for humanity to thrive within the planetary boundaries. In this lecture, Professor Daniela Pigosso will share the key research findings that led to her vision of establishing Design for Absolute Sustainability as a prominent interdisciplinary research field at DTU and beyond.

Positions:

2024	Professor of Design for Absolute Sustainability at DTU Construct
2018-2024	Associate Professor at DTU Construct
2018-2021	Head of Studies, <i>Design & Innovation</i> BSc, Technical University of Denmark
2015-2018	Senior Researcher at DTU MEK
2012-2015	Postdoc at DTU MEK in collaboration with Grundfos
2012-2012	Product Development Engineer at EMBRAER S/A, Brazil
2010-2010	Consultant on Cleaner Production for SMEs at SEBRAE-SP, Brazil

Titles:

2024	Professor of Design for Absolute Sustainability at DTU Construct
2012	PhD in Industrial Engineering (University of Sao Paulo, Brazil)
2008	BSc in Environmental Engineering (University of Sao Paulo, Brazil)