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PRODUCT CIRCULARITY INDICATORS: WHAT CONTRIBUTIONS IN DESIGNING FOR A CIRCULAR ECONOMY?

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Abstract

This paper investigates and questions the relevance of product-centric circularity indicators in a product design context. To do so, reviews of eco-design tools and critical analyses of circularity indicators at the micro level of circular economy implementation are combined with a new workshop experimenting four of these indicators with the aim to improve the circularity performance of an industrial product. On this basis, the four tool-based circularity indicators tested are mapped on the engineering design and development process, and are positioned among the pool of main eco-design tools.

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