The absence of mechanisms to evaluate the potential benefits of ecodesign prior to implementation is a major barrier to wider adoption. There is a need to understand how the development of ecodesign capabilities affect corporate performance considering its dynamic complexity. Drawing upon the Ecodesign Maturity Model, this paper systematically reviews the literature on relevant applications of dynamic modeling and develops the foundations of a simulation framework, aimed at deriving business cases for ecodesign implementation. Preliminary results and streams of future research are discussed.

General information
State: Published
Organisations: Department of Mechanical Engineering, Engineering Design and Product Development
Contributors: Rodrigues, V. P., Pigosso, D., McAloone, T.
Pages: 2739-2750
Publication date: 2018

Host publication information
Title of host publication: Proceedings of the DESIGN 2018 15th International Design Conference
Publisher: Design Society
Editors: Marjanović, D., Štorga, M., Škec, S., Bojičetić, N., Pavković, N.
Keywords: Ecodesign, Product development, Sustainable design, System dynamics, Business case
DOIs: 10.21278/idc.2018.0404
Source: PublicationPreSubmission
Source-ID: 148059094
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018