

Accepted Manuscript

Product service system: A conceptual framework from a systematic review

Alessandro Annarelli, Cinzia Battistella, Fabio Nonino

PII: S0959-6526(16)31209-4

DOI: [10.1016/j.jclepro.2016.08.061](https://doi.org/10.1016/j.jclepro.2016.08.061)

Reference: JCLP 7853

To appear in: *Journal of Cleaner Production*

Received Date: 6 January 2016

Revised Date: 13 August 2016

Accepted Date: 13 August 2016

Please cite this article as: Annarelli A, Battistella C, Nonino F, Product service system: A conceptual framework from a systematic review, *Journal of Cleaner Production* (2016), doi: 10.1016/j.jclepro.2016.08.061.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Product service system: a conceptual framework from a systematic review

Alessandro Annarelli¹, Cinzia Battistella², Fabio Nonino³

¹ Faculty of Science and Technology, Free University of Bolzano-Bozen, Bolzano-Bozen, Italy, alessandro.annarelli@natec.unibz.it

² Department of Information Engineering and Mathematics, University of Siena, Siena, Italy, cinzia.battistella@diism.unisi.it

³ Department of Computer, Control and Management Engineering, Sapienza University of Rome, Roma, Italy, fabio.nonino@uniroma1.it

Abstract

This paper sets out to contribute to a critical theory debate through the presentation and use of a framework for the categorisation of literature linked to Product Service System (PSS).

Moving from the analysis of literature we provide a conceptual structure depicting the current situation of literature dealing with the analysis of economic impact and environmental/social impact of Product Service System. Moreover, we provide a methodological structure, concerning methodologies and research purpose behind papers.

Literature mainly agrees about PSS benefits, barriers, and partly also on drivers, but from the descriptive and thematic analysis what emerged is a lack of clarity about PSS and its main fields: it started as a topic closely connected with sustainability, but subsequently different fields have developed other terminologies and focuses of research, developing their own theoretical base and frameworks. Therefore, we have found a lack of interconnection among fields and subject areas.

A critical aspect in current literature is about the analysis/evaluation of Product Service System performance: economic and environmental analyses should be updated with new methodologies and new perspectives (i.e. privileging an ex post perspective rather than an ex ante one). Furthermore, these analyses should be integrated in a unique tool, which would be essential in providing a complete perspective on the PSS phenomenon and its effects.

Finally, we propose and discuss main future research directions, connected to the main current research streams: sustainability, Product Service System business models and collaborative consumption.

Keywords

Product Service System, Servitization, Post Mass Production Paradigm, Industrial Product Service System, Functional Sale, Systematic Review

Download English Version:

<https://daneshyari.com/en/article/8100720>

Download Persian Version:

<https://daneshyari.com/article/8100720>

[Daneshyari.com](https://daneshyari.com)