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**World Class Sustainable Supply Chain Management: critical review and further research directions**

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24th<sup>h</sup>January 2016

Dear Editor,

We would like to express our sincere thanks to you and four reviewers who have contributed extensively to the development of our manuscript. In response to minor revisions we have undertaken revision and checked twice. We can hope that you and reviewers will like the final revised draft.

Sincerely yours,

The Authors

For Peer Review

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3 Response: Manuscript ID IJLM-07-2015-0112.R2 entitled "World Class Sustainable Supply  
4 Chain Management: critical review and further research directions".  
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9 Reviewer 1

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11 Recommendation: Accept

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13 Response: Thanks for accepting our work.

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15 Comments:

16 I have no further objections to publishing the paper. Line 30 on page 5 speaks to "Twelve  
17 definitions of SSCM,' while Table 1 appears to contains 16. I'm not sure if these are supposed to  
18 be the same.

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20 **Response:** *Thanks for pointing out discrepancy. We have corrected in our revised paper.*

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22 Although I think the presentation of Appendix II could still use some improvement, it makes  
23 sense to me when I compare it with Figure 2. This is not the case when I try to compare Figure I  
24 to Appendix I. Anyone looking at what you are doing would sympathize with the challenges you  
25 face organizing the appendixes by presenting the vertical hierarchies in the figures laid out  
26 horizontally as tables in the appendixes.

27  
28 **Response:** *Thanks for your observations. We have tried our best to present. However we believed that this is  
29 one of the best way to classify the literature.*

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31 Note that Figure 2 really only has two levels, the dimensions (Environmental, Social Values &  
32 Ethics, etc.) with the subcategories (Green Design . . . , Conservation, and Life cycle concept,  
33 under Environmental). Perhaps an explanation for why it is easier to express in its corresponding  
34 table.

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36 **Response:** *Thanks for your sincere comments. We have offered our explanation. For your convenience we have  
37 shaded the revised portion.*

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39 Figure 1 has (or at least appears to me to have) three levels. Theory building and Application  
40 based research are the top with TB having subcategories Rationalist approach and Alt methods.  
41 Then, each RA and AM have subcategories. Application based research has one (possibly  
42 superfluous) subcategory "Cases" and below that "Industry focused . . ." In the appendix, you  
43 have Application based research and then, apparently, below that "Theory in practice," a title  
44 nowhere on Figure I. I would suggest finding someone who has never looked at the figure and  
45 table combination before to see if it makes sense to them. It is possible you have been too close  
46 to it for too long.

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48 **Response:** *Thanks for your suggestions. We have double-checked.*

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50 We would like express our sincere thanks for your effort to improve our manuscript.  
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For Peer Review

## World Class Sustainable Supply Chain Management: critical review and further research directions

### Abstract

**Purpose-**Sustainable Supply Chain Management (SSCM) has attracted considerable interest among academics and practitioners. The aim of our article is to present a critical review of the literature, to identify missing links, to argue for the use of world-class SSCM through a framework, and suggest further research directions.

**Design/methodology/approach-**In our article we have undertaken an extensive review of literature and classified articles using a novel classification scheme.

**Findings-**Through the extensive review and identification of research gaps, the paper (i) identifies significant differences between definitions and methodologies in the SSCM literature; and (ii) argues for “world-class SSCM (WCSSCM)”. This term is elaborated on via a theoretical framework in which eighteen dimensions are classified under six constructs of SSCM. Furthermore, a list of potential research directions for WCSSCM is discussed.

**Research limitations/implications-** The research is an attempt to critically review literature, argue for WCSSCM, and develop a theoretical framework.

**Originality/value-**The article offers a new approach to sustainable supply chain management literature, arguing for WCSSCM through a framework, and providing further research directions.

**Keywords:** Sustainable Supply Chain Management (SSCM), World Class SSCM (WCSSCM), Triple-Bottom Line, Theoretical Framework, Literature Review.

### 1. Introduction

Sustainable supply chain management (SSCM) has attracted great attention from academics and practitioners in recent years (Tachizawa and Wong, 2014). The popularity of the field can be measured in terms of the exponential leap in the number of published articles around the issue of sustainability in supply chain networks in the last five years. Seuring *et al.* (2008) have argued that the sustainable supply chain literature has so far failed to investigate the impacts of sustainable practices on social dimensions. From an environmental and economic perspective, Ashby *et al.* (2012) and Halldorsson *et al.* (2009) have argued that the word ‘sustainability’ is over-stretched and it maybe that the level of attention is raised by unnecessary hyperbole surrounding sustainability in supply chains. Beske and Seuring (2014) have argued that a sustainable supply chain differs from a conventional supply chain. There is

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3 also strong evidence suggesting that sustainability in supply chain networks has helped  
4 organizations to achieve better performance (e.g. Tsoufas and Pappis, 2006; Yusuf *et al.* 2013;  
5 Plambeck *et al.* 2013).  
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8 Despite the popularity of the SSCM field, it is quite evident from the literature that the concept  
9 of a sustainable supply chain is poorly understood from both theoretical and managerial points  
10 of view. There is growing body of literature related to sustainable supply chain management,  
11 but, on the other hand, there are overlaps between green supply chain management or  
12 environmental supply chain management literature and sustainable supply chain literature, as  
13 well as other areas that have attracted significant contributions, such as environmental supply  
14 chains, ethical supply chains and responsible supply chains. Markman and Krause (2014), in a  
15 recent call for papers, have argued for more integrated theory-building articles. Despite the  
16 popularity of the SSCM topics amongst researchers, there is still a need for critical review and  
17 a framework that will shed light upon the different definitions and perspectives and links, and  
18 will provide further research directions. To bridge this knowledge gap and driven by the  
19 endorsement of Markman and Krause, this study aims at achieving the following research  
20 objectives:  
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27 (i) To review the literature of SSCM and develop a classification of literature based on previous  
28 scholarly works;  
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30 (ii) To argue for the use of world-class SSCM (WCSSCM) and propose a theoretical framework  
31 that articulates its different dimensions;  
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33 (iii) To provide taxonomy of the literature based on our WCSSCM framework;  
34  
35 (iv) To identify further research directions based on the limitations of our study.  
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38 The remainder of the article is organized as follows. In the second section we discuss our  
39 methodology and our classification of literature and present our theoretical framework. The  
40 third section is devoted to research discussions and finally we synthesize the findings of the  
41 extensive literature review, outline the limitations of this work, and offer extensive further  
42 research directions.  
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## 46 47 48 **2. Research Methodology** 49

50 In this section we discuss our research process. We firstly read the literature and identify  
51 different definitions of the SSCM literature, which provided the motivation for the use of world-  
52 class SSCM (WCSSCM). We then identify enablers of SSCM, which have provided the basis for  
53 the classification of the literature and our proposed framework.  
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### **2.1 Identification of literature**

We have undertaken a critical review of the literature published in reputable journals indexed in the 'Web of Science' (using both the Science Citation Index and the Social Science Citation Index) and 'Scopus'. We used the keywords: 'sustainability', 'social sustainability' 'supply chain', 'definition', 'enabler', 'measure', and 'technique'. We reviewed each of the papers for relevance to the topic area. Following [Gunasekaran \*et al.\* \(2015\)](#), if there were disagreements regarding the inclusion of particular articles, the co-authors discussed until agreement was reached. Since many of the papers take different viewpoints and look at different aspects, there is an immense scope for advancement by unifying the field.

### **2.2 In-depth analysis of definitions of SSCM based on literature**

In the past there were several attempts to outline lists of SSCM definitions. We decided to revisit SSCM definitions published in reputable journals. Our attempt took shape after we reviewed Mentzer *et al.*'s (2001) seminal article on defining 'supply chain management' which motivated us to make an attempt to provide a comprehensive definition for SSCM. In our article we present definitions of SSCM based on our critical and extensive literature review. This list is outlined in Table 1.



**Table 1: Definitions of Sustainability in supply chain literature**

Reference	Definition
Pagell and Shevchenko (2014)	Sustainable supply chain is the design, coordination, control and organization of a supply chain to make it truly sustainable with minimum expectation being to achieve economic viability, while ensuring no harm to environment and social systems over an extended period of time.
Ahi andSearcy (2013)	Sustainable supply chain management is the voluntary integration of social, economic, and environmental considerations with the key inter-organizational business systems to create a coordinated supply chain to effectively manage the material, information and capital flows associated with the procurement, production and distribution of products or services to fulfill short term and long term profitability, stakeholder requirements, competitiveness and resilience of the organization.
Wittstruck and Teuteberg (2012)	Sustainable supply chain management is the extension of the traditional supply chain concept, by adding the social, economic and environmental aspects of sustainability.
Closs <i>et al.</i> (2011)	Sustainability of supply chain is defined as the ability of an organization to mitigate, detect, respond, and to recover from growing global threats related to supply chain and to enhance the long-term value.
Wolf (2011)	Supply chain sustainability is defined as the strategic collaboration of a manufacturer with suppliers to deliver maximum value to multiple stake holders by collaboratively managing inter- and intra-organization process, flows of products and services, information and capital decisions to achieve the goal of economic, social and environmental sustainability.
Pagell andWu (2009)	A truly sustainable supply chain is one which at the worst does zero net harm to the natural and social systems, while still producing consistent profit over an extended period of time by retaining its existing customers and business forever.
Badurdeen <i>et al.</i> (2009)	Sustainable supply chain management is the planning and management of sourcing, procurement, pre-manufacturing, manufacturing, use and post-use stages in the life cycle in closed loop, through multiple life-cycles to achieve a shared vision, with the sharing information on product life cycle stages between companies by considering social and environmental implications.
Haake andSeuring (2009)	Sustainable supply chain management is the set of well-defined supply chain management policies, actions taken, and the relationships formed to solve the social and environmental issues related to design, acquisition, production, distribution, use, reuse and disposal of the goods and services of a firm.
Seuring (2008)	Sustainable supply chain can be defined as the integration of sustainable development and supply chain, by considering environmental and social aspects along with supply chain to get more sustainable products and processes by avoiding related problems.
Font <i>et al.</i> (2008)	Sustainable supply chain is defined as the addition of sustainability to the supply chain to manage the environmental, social and economic impacts of business activities.
Seuring andMuller (2008)	Sustainable supply chain management is defined as meeting the goals of economic, social and environmental dimensions of sustainable development, derived from the requirements of customers and stake holders through the management of material, information, capital flows and cooperation among companies.
Ciliberti <i>et al.</i> (2008)	Sustainable supply chain management is the management of a supply chain by considering all the three dimensions of sustainability such as social, economic end environment.

Carter and Rogers (2008)	Sustainable supply chain can be defined as the strategic and transparent integration of organizations social, environmental and economic goals through systematic coordination of inter organizational business processes for improving the long term economic performance of the organization and its supply chain stake holders.
Linton <i>et al.</i> (2007)	Sustainability in supply chain can be defined as the integration of flows by taking care of things such as product design, manufacturing by-products, by-products produced during product use, product life extension, product end-of-life, and recovery processes at end-of-life to solve the core supply chain management issues.
Jorgensen & Knudsen (2006)	Sustainable supply chain management is defined as the means by which organizations manage their social responsibilities across dislocated production processes distributed over organizational and geographical boundaries.
Teuscher <i>et al.</i> (2006)	Sustainable supply chain management includes total quality management philosophy, and handles all internal and external risks associated with financial, social and ecological threats along the supply chain.

From Table 1 it is noted that most of the definitions focus on the reduction of the impact of supply chain practices on ecology as a part of sustainability. Ahi and Searcy (2013) have argued that SSCM is an extension of green supply chain management (GSCM) with the integration of social and economic factors along with environmental factors. They add that none of the SSCM definitions focuses on performance characteristics and that most of the definitions of SSCM are yet to be critically reviewed to understand whether the mentioned characteristics are relevant to the SSCM concept. Sixteen definitions of SSCM from different articles are presented in comparison to GSCM, which is also considered in this paper. Based on the comparison of the definitions analyzed so far, we have tried to build a simple comprehensive and meaningful definition of SSCM. We argue that SSCM should enable organizations to achieve economic improvements. Then its acceptability rate could be increased among the supply chain managers and hence it would be easily operationalized. We can classify these definitions into two broad categories:

*(i) SSCM as a management philosophy*

In recent years, organizations have started embracing SSCM as their guiding philosophy. SSCM is now embedded within organizational culture. Ahi and Searcy (2013) have investigated SSCM from an integration perspective, paying attention to the balance between the dimensions of the triple-bottom line (i.e. environmental perspective, social benefits, and economic benefits).

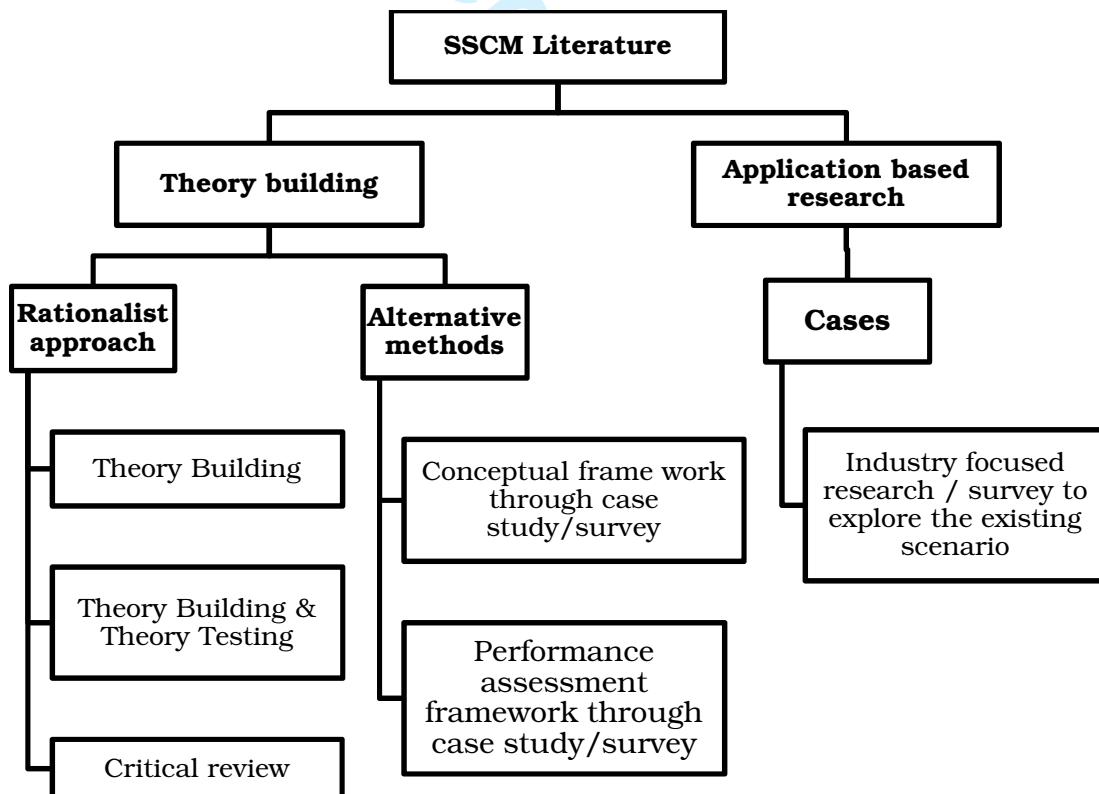
*(ii) SSCM as a set of management processes*

Pagell and Schevchenko (2014) have argued that SSCM could be understood from a process point of view and in particular from a cycle and push/pull view. The cycle view focuses on embracing sustainability in procurement processes, manufacturing processes, replenishment processes and executing customer order processes (fulfillment). We can argue that the push/pull interface focuses on collaboration between suppliers and manufacturers. Wolf

(2011) has argued that sustainability in supply chain networks can be achieved through appropriate collaboration.

### 2.3 Classification of literature

The extensive review of literature provided numerous classification schemes. Sarkis *et al.* (2011) have used organizational theories to classify GSCM literature published in refereed journals. [Gunasekaran and Spalanzani \(2012\)](#) have proposed a scheme based on building blocks. Melnyk *et al.* (2014) attempted to offer an explanation based on building blocks. In the current study, we have attempted to classify the literature based on contributions to theory and practice. Similarly Brandenburg *et al.* (2014) classified the literature on the basis of various quantitative models used by literature focusing on GSCM or SSCM. Based on our reading of the literature and inspired by Whetten (1989) and Sutton & Staw (1995) who distinguish theory building from practice-based studies, we offer a twofold classification based on the methodologies used by past SSCM studies. First, the literature based on theory-building using a rationalist approach or alternative methods which include case study, action research, grounded theory, appreciative inquiry, or ethnographic study, and second, application based articles, which focus on benchmarking and the implementation of best practices. The classification scheme is presented in Figure 1.



**Figure 1: Classification scheme of literature (inspired by Whetten (1989) and Sutton & Staw (1995)).**

We have attempted to classify some of the articles into two broad categories as shown in Appendix 1. We can see that first, the majority of SSCM literature has used a rationalist approach which includes either operations research or survey based articles. However survey-based articles cannot explain fully the mediating and moderating nature of the variables. Second, in alternative methods we have seen the use of the case study approach. Other methods, such as grounded theory, appreciative inquiry, and action research, have been given less attention in comparison to case studies by the operations management community. Hence we argue that there is lack of diversity in terms of methodology in SSCM literature that we have reviewed.

**2.4 Identification and classification of the enablers of SSCM and their measures**

The sustainable supply chain literature is firmly grounded on the triple bottom line concept with a focus on social, economic and environment performance measures as three main pillars, with four major aspects of risk management, transparency, strategy and culture (e.g. Elkington, 1997; Norman and MacDonald, 2004; Carter and Rogers, 2008; Mollenkopf *et al.* 2010; Morali and Searcy, 2010). Hervani *et al.* (2005) have argued that organizations have enablers and constraints from inside and outside the organization, the so-called internal and external factors. Matos and Hall (2007) have suggested that the identification of enablers is the most difficult part in framing policy and design. Zhu *et al.* (2013) have classified drivers of supply chain management as internal drivers and external drivers, in which internal drivers are identified as eco-design (ECO) and internal environmental management (IEM), whereas external drivers are explained as green purchasing, inventory optimization, and cooperation with external customers for environmental requirements. Svensson (2007) and Gupta & Palsule-Desai (2011) have further argued in favour of remanufacturing as a competitive advantage weapon and suggested the need to design the supply chain to include reused and recycled products within existing supply chain networks. Closs *et al.* (2011), have argued to change the conventional 3E's (Economic, Environment and Equity) and 3 P's (people, profit, planet) concept to make a more actionable framework for sustainable supply chain by adding ethical and educational dimensions along with environmental and economic ones. Tachizawa & Yew Wong (2014) developed their framework for sustainable multi-tier supply chains by considering contingency variables such as power, dependency, distance, industry and knowledge resources. Beske and Seuring (2014) have argued that SSCM is an extension of

SCM with the focus on triple bottom line, stakeholder management life cycle assessment, technological integration and supply chain partner collaboration. Vachon and Mao (2008) have argued that environmental performance and social sustainability in a country increases as the supply chain strength increases.

We have outlined various SSCM enablers and their measures on the basis of our literature review as shown in Table 2.

**Table 2: Enablers of SSCM**

<b>Sustainable supply chain enablers</b>	<b>Reference</b>	<b>Measures</b>
Supply chain collaboration	Hsueh (2015); Gimenez <i>et al.</i> (2012); Kang <i>et al.</i> (2012); Lee (2010)	<ul style="list-style-type: none"> <li>Trustful supplier partnership</li> <li>Mutual sharing of resources for better utilization</li> </ul>
Green Product Design	Zhu <i>et al.</i> (2013); Linton <i>et al.</i> (2007); Sharma <i>et al.</i> (2010)	Design emphasis upon <ul style="list-style-type: none"> <li>Green material selection</li> <li>Good recyclability</li> <li>Easy re-manufacturing</li> <li>Minimum environmental impact during product usage</li> </ul>
Environmental Management	Lam and Dai (2015); Marshall <i>et al.</i> (2015); Zhu <i>et al.</i> (2013); Tsoulfas and Pappis (2008); Lamming and Hampson (1996)	<ul style="list-style-type: none"> <li>Ecological conservation</li> <li>Natural resource conservation</li> </ul>
Green Procurement	Appolloni <i>et al.</i> (2014); Dubey <i>et al.</i> (2013); Amemba <i>et al.</i> (2013); Holt and Ghobadian (2009); Ofori (2000)	Purchasing that involves activities for material: <ul style="list-style-type: none"> <li>Reuse</li> <li>Reduction</li> <li>Recycling</li> </ul>
Green Packaging	Rokka and Uusitalo (2008); Coyle <i>et al.</i> (2014)	Use of packaging materials which are: <ul style="list-style-type: none"> <li>Re-usable</li> <li>Recyclable</li> <li>Environmental friendly</li> </ul>
Green Warehousing	Coyle <i>et al.</i> (2014); Amemba <i>et al.</i> (2013)	Warehousing by: <ul style="list-style-type: none"> <li>Minimum Energy usage</li> <li>Maximize space utilization</li> </ul>
Reverse Logistics	Vijayan <i>et al.</i> (2014); Nikolaou <i>et al.</i> (2013); Sarkis <i>et al.</i> (2010)	<ul style="list-style-type: none"> <li>Energy and fuel conservation</li> <li>Pollution reduction</li> <li>Waste management</li> </ul>
Minimization of greenhouse gas emission	Awudu and Zhang (2012); Chaabane <i>et al.</i> (2011); Halldorsson and Kovacs (2010); Edwards <i>et al.</i> (2010);	<ul style="list-style-type: none"> <li>Logistics route optimization</li> <li>Transport load and speed optimization</li> <li>Optimum logistics scheduling</li> <li>Renewable fuel usage</li> <li>Encouraging online trade</li> </ul>
Institutional pressure	Dubey <i>et al.</i> (2015); Coyle <i>et al.</i> (2014); Kang <i>et al.</i> (2012); Zhu <i>et al.</i> (2005); Jayaraman <i>et al.</i> (2007)	<ul style="list-style-type: none"> <li>Government bodies</li> <li>Stakeholders</li> <li>Customers</li> <li>Government policies</li> </ul>

		<ul style="list-style-type: none"> <li>• Government rules and norms</li> </ul>
Manufacturing strategies	Dubey <i>et al.</i> (2015); Garbie (2013,2014); Garetti and Taisch (2012);Gunasekaran and Spalanzani (2012)	<ul style="list-style-type: none"> <li>• Agile manufacturing</li> <li>• Reconfigurable manufacturing</li> <li>• Lean production</li> </ul>
Information Management	Paik & Bagchi (2007); Gunasekaran & Ngai (2004)	<ul style="list-style-type: none"> <li>• Minimization of bullwhip effect</li> <li>• Supply chain Integration</li> <li>• Knowledge Management</li> </ul>
Social Dimensions	Gopal and Thakkar (2016);Marshall <i>et al.</i> (2015);Luzzini <i>et al.</i> (2015);Mani <i>et al.</i> (2015); Mota <i>et al.</i> (2015);Hoejmose <i>et al.</i> (2013);Sarkis <i>et al.</i> (2010);Carter and Jennings (2002a,b)	<ul style="list-style-type: none"> <li>• Ethics</li> <li>• Working conditions</li> <li>• Human rights</li> <li>• Safety</li> <li>• Community involvement</li> </ul>
Public awareness	Gold <i>et al.</i> (2010a); Rokka & Uusitalo (2008)	<ul style="list-style-type: none"> <li>• Customer awareness</li> </ul>
Organizational culture & Corporate strategy	McAfee <i>et al.</i> (2002); Mello and Stank (2005); Hofmann (2010); Dey <i>et al.</i> (2011)	<ul style="list-style-type: none"> <li>• Employee engagement &amp; awareness</li> <li>• Supply chain strategy in line with corporate strategy</li> <li>• Top management commitment</li> </ul>

### 2.5 Research Gaps

Drawing on the aforementioned review, we can infer that the majority of the SSCM literature focuses mostly on the environmental and economic dimensions. Studies have not yet explicitly studied and measured the social dimension (Miemczyk *et al.* 2012; Seuring, 2013). Therefore, we argue that the issue of sustainability in supply chains has a long way to go before it reaches maturity. Beske (2012) defines a framework for achieving dynamic capabilities for SSCM through knowledge management, supply chain continuity, and risk management, but does not consider the social and environmental aspects of sustainability in achieving SSCM dynamic capabilities. Coyle *et al.* (2014) focused only on the environmental factors of sustainability and proposed a framework for environmentally sustainable supply chains. Tseng & Hung (2014) have further developed a mathematical model by considering operating and social costs of SSCM, but nevertheless the social cost considered is related to the cost associated with the carbon dioxide emissions without considering any real social factors. Hence, there are limitations regarding its use as a reliable strategic decision making tool for SSCM. Fearne *et al.* (2012) further concluded that value chain analysis studies in SSCM mainly focused only on the economic aspects of SSCM and had given inadequate attention to environment and social dimensions. Markley and Davis (2007) argued that sustainability based on the triple bottom line concept must be used as a competitive advantage tool. Hazen *et al.* (2011) have argued

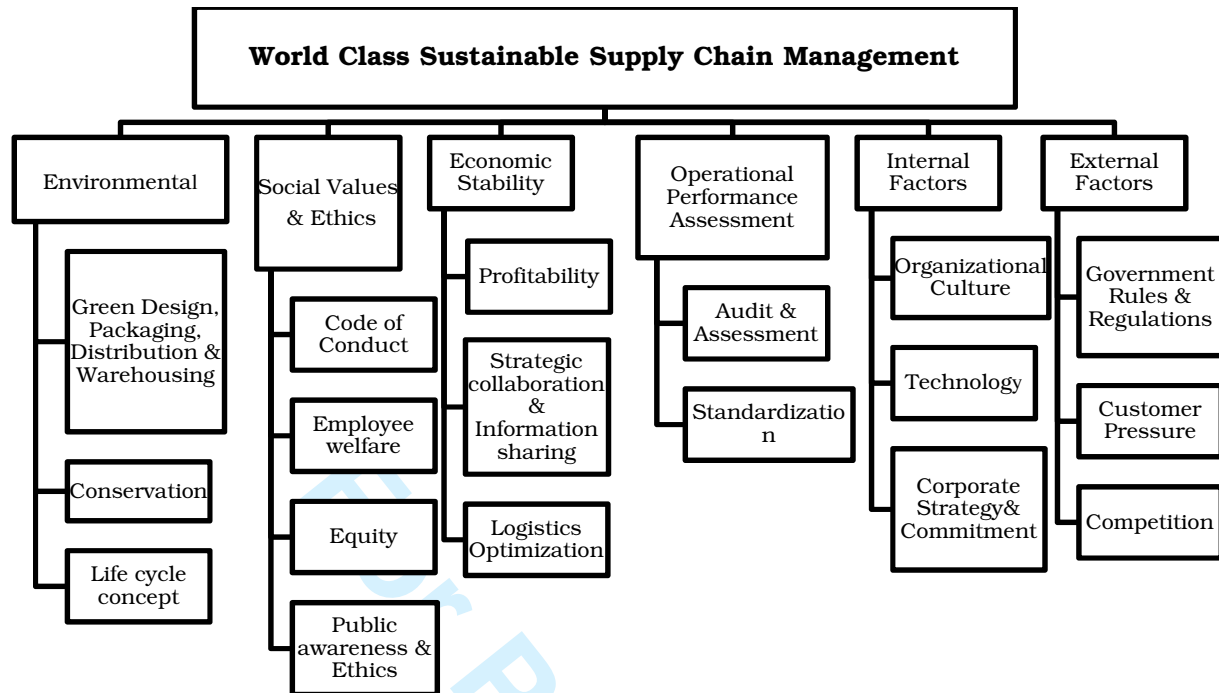


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3 that GSCM practices *per se* may not be the source of competitive advantage. Hence we argue  
4 that SSCM may provide competitive advantage through mediating linkages.

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6 Morali and Searcy (2010) suggest that integrating all the three dimensions of sustainability is  
7 the aim of today's organizations and supply chains. However, even though the triple bottom  
8 line concept of SSCM is widely acknowledged, most studies fail to consider all three pillars.  
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10 Scholars have acknowledged the importance of institutionalizing SSCM practices and the  
11 benefits accruing from its adoption. However, there is yet research to be conducted that will  
12 identify and test the impact of factors such as culture, geographical region, and company size  
13 on SSCM practices. Furthermore, literature so far has not utilized alternative methods such as  
14 grounded theory, appreciative inquiry, action research or content analysis to explain SSCM  
15 related phenomena. Even though much work has been conducted on SSCM theoretical  
16 framework development, limited or no effort has been made to consolidate all the relevant  
17 enablers together to list the comprehensive common constructs of SSCM.  
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## 24 **2.6 Theoretical Framework**

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26 On the basis of our literature review and the research gaps identified, we introduce a new term,  
27 that is, world class SSCM (WCSSCM), as *the continuous development of the appropriate*  
28 *organizational culture, use of innovative technologies, and awareness and involvement of top*  
29 *management, employees, and society to consider and translate external pressures into strategic*  
30 *and operational performance as well as economic stability while considering the impact of these*  
31 *practices on social equity, ethical values and welfare, and the environment.* We conceptualise  
32 WCSSCM via six constructs and eighteen items, which have emerged as common themes from  
33 our literature review (Figure 2). We discuss briefly each of the dimensions of our proposed  
34 framework in the next subsections. We have also classified the relevant literature according to  
35 these dimensions and subcategories (Appendix 2).  
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**Figure 2: World Class Sustainable Supply Chain Framework**

As shown in Appendix 2 we have allocated relevant literature to each subcategory under each category. For instance under environmental category we have three subcategories. Hence we have allocated relevant literature on the basis of its fit into the appropriate subcategory. We next offer detailed arguments.

### 3. Discussion

#### 3.1 Environmental dimension

Life cycle concept implementation, green product design, green packaging, green distribution and warehousing and conservation of natural resources are the factors considered under the environment dimension. Literature has explained the need for eco-friendly processes, technologies, products, energy efficient systems and conservation techniques. Handfield *et al.* (2002) have argued that product recalls due to environmental concerns may have an impact upon the financial health of organizations. Aronsson and Huge Brodin (2006) have argued that structural changes in logistics systems can impact environmental sustainability.

The importance of appropriate packaging has been raised by Rokka and Uusitalo (2008), who have argued that in recent time's customers have shown a preference for green packaged products due to increased environmental awareness and ethics. Halldorsson and Kovacs (2010) have shifted the focus from packaging to the need for energy-efficient logistics and for reduction of the global carbon footprint. Kuik *et al.* (2011) have developed a clear framework for



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3 SSCM by dividing the well-known 3R's into first 3Rs of process improvement (reuse, recycle  
4 and remanufacturing) and 3R's of product design(reduce, recover and redesign). By conducting  
5 case study research, Wu and Pagell (2011) have concluded that organizations make  
6 environmental decisions under information uncertainty, which forces managers to adopt  
7 simple common assumptions and rules for decision-making.

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11 Abbasi and Nilsson (2012) have further outlined the challenges of environmentally sustainable  
12 supply chain such as cost, uncertainties, mindset & cultural changes, complexity, and  
13 operationalization. They have argued that sustainability should not be treated as an add-on to  
14 supply chain management, but should have the same importance as revenue increase and cost  
15 reduction. Wiese *et al.* (2012) have explained the importance of retailers in deciding the carbon  
16 footprint in a sustainable supply chain network. Ji *et al.* (2014) have suggested that the double  
17 environmental medium (DEM) regulations and reduction in carbon footprint can be achieved  
18 by: improving demand forecast accuracy, investment in carbon reduction technology, using  
19 smaller packaging, joint distribution, allying with third party logistics providers, adopting  
20 cross-docking networks, improving energy efficiency, shortening using time, combining design  
21 for ecology and comprehensive take-back networks.  
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### 29 **3.2 Social values and ethics dimension**

30 Mello and Stank (2005) have argued the need for cultural change in organizations for the  
31 successful implementation of supply chain initiatives, and hence in our case, WCSSCM.  
32 Simoes *et al.* (2014) have further argued that stakeholder dimensions should be incorporated  
33 in the decision-making design process. This will further allow the identification of the critical  
34 aspects and associated measures that need to be considered when designing, planning and  
35 operating social sustainable supply chains. Harms *et al.* (2013) have argued that supplier  
36 management strategies are culture- and region- dependent, and most of the companies prefer  
37 to evaluate and select their suppliers to avoid risk rather than to develop suppliers to gain  
38 opportunity-oriented advantage. [Hall & Matos \(2010\)](#), through a case study, have illustrated  
39 the need and challenges in providing entrepreneurial opportunities within SSCM for the social  
40 and economic improvement of weak segments of the society.  
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47 Tencati *et al.* (2010) and Keating *et al.* (2008) have considered the social dimension of SSCM in  
48 their case studies, but have treated the social dimension as a part of corporate social  
49 responsibility. Beamon (2005) has argued that engineering ethics plays a major role in  
50 designing and developing an environmentally conscious supply chain management and the  
51 external legislation should protect the employees' job security. Fabbe-Costes *et al.* (2011) have  
52 explained a six-level scanning criteria framework starting from the people level to the societal  
53 level through functional, firm, chain and network levels for achieving sustainability. Cervellon  
54 and Wernerfelt (2012), in an ethnographic study, have concluded that knowledge diffusion and  
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3 public awareness increase sustainable fashion and clothing trends. According to Lobel (2006),  
4 the violations of human rights are another major concern in social sustainability. Sigala (2008)  
5 has explained the importance of public awareness in promoting sustainable tourism supply  
6 chain. Drake and Schlachter (2008) and Roberts (2003) have emphasized the importance of  
7 values and ethics for the successful collaboration of supply chain, ethical sourcing and  
8 purchasing.

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11 Our review of the literature, however, suggests that only a limited amount of literature  
12 considers the social values and ethics dimension in SSCM, and that both the environmental  
13 and economic dimensions are over shadowing the social dimension. The social issues which  
14 include child labour, health issues, compensation, discrimination on the basis of ethnicity,  
15 caste or creed, and exploitation of workers are inadequately addressed in the current literature.  
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### 20 21 **3.3 Economic stability dimension**

22 Profitability, strategic collaboration, and information sharing and logistics optimization are  
23 regarded as three important factors that are to be taken care of to achieve economic stability.  
24 In the early stage, according to Walley and Whitehead (1994), sustainability thinking focused  
25 on being economically rational to all stakeholders in the supply chain by adding value to the  
26 entire system. But scholars such as Min and Galle (1997; 2001) clarified that merely focusing  
27 on cost reduction in supply chains will not help organizations become sustainable.  
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30 In later studies, scholars (Zailani *et al.* 2012; Wang and Sarkis, 2013; Ortas *et al.* 2014) stated  
31 that social and environmental sustainability initiatives in SSCM offer long-term corporate  
32 financial benefits to the organization. Spekman *et al.* (1998); Vergheze and Lewis (2007);  
33 Vachon and Klassen (2008); Sharfman *et al.* (2009); Tencati *et al.* (2010); Peters *et al.* (2011);  
34 Gimenez *et al.* (2012) and Blome *et al.* (2014) have all suggested that supply chain collaboration  
35 and internal environmental programs have a positive impact on the three dimensions of  
36 sustainable development (social, economic and environmental).  
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39 According to Dam and Petkova (2014) and Glover *et al.* (2014), for the institutionalization of  
40 SSCM energy efficient technologies should be commercialized and made easily available by  
41 lowering the financial barriers through incentives, low interest loans and faster pay back  
42 periods and with the financial collaboration between stakeholders in the supply chain. Attaran  
43 and Attaran (2007) proposed a collaborative planning, forecasting and replenishment system to  
44 facilitate collaboration in the supply chain, and explained how supply chain collaboration can  
45 be achieved. Lee *et al.* (2010) showed the success story of inter-organizational supply chain  
46 collaboration, which helped Hewlett-Packard, Electrolux, Sony and Braun reduce their  
47 recycling and disposal costs by 35% by developing a common European Recycling Platform.  
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50 Supplier selection is another critical SSCM decision, which has an impact on, for instance,  
51 supply chain collaboration, profitability, and technology integration for which various multi-  
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3 criteria decision making tools are used. Vurro *et al.* (2009) have proposed a theoretical  
4 framework explaining different sustainable supply chain governance models for better  
5 collaboration. However, Ashby *et al.* (2012) argue that there is little literature underlining the  
6 importance of supplier collaboration for improved sustainability performance. Bai and Sarkis  
7 (2014), Bai *et al.* (2012) and Bai *et al.* (2010) have used the neighborhood rough set  
8 methodology for the supplier selection problem with environmental and economic factors as  
9 decision attributes. Azadi *et al.* (2014) have proposed a linear programming model for sustainable  
10 supplier selection by using data envelopment analysis methodology.

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15 Pagell and Wu (2009), in their case study research, have concluded that those organizations  
16 that follow a sustainable supply chain strategy are successful in aligning their financial goals  
17 with environmental and social goals, and are successful in ensuring transparency in all of their  
18 business processes. According to Jorgensen & Knudsen (2006), large buyers should help  
19 second and third tier small and medium scale (SMEs) companies to meet the environmental  
20 and social requirements, which will help them to become change agents, for the rule keeping  
21 process, and in risk management to achieve sustainable production in global value chains.  
22 According to Giunipero *et al.* (2006), future supply chains need strong strategic collaboration  
23 and strategic cost reductions for which supply chain managers need to acquire good strategic  
24 capabilities with a combination of technical, communication, and financial skills.

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According to Krause *et al.* (2009), if cost is measured over the whole product life cycle,  
sustainability efforts are cost effective in both the short-and long-term, and organizations can  
gain sustainable competitive advantage by determining, documenting, and communicating  
their supply chain initiatives and goals in collaboration with their suppliers. Goldbach *et al.*  
(2003), following case study research, have outlined the challenges related to the coordination  
of complex networks of the different partners for SSCM. Walker and Preuss (2008) have argued  
that government must encourage sourcing from small local suppliers through partnership and  
other aids to improve the local economic and social aspects of sustainability. Finally, Brindley  
and Oxborrow (2014) have asserted the need to align marketing with SSCM to make SSCM lean  
and resource efficient, considering seasonal demand fluctuations and local resource  
availability.

### **3.4 Operational performance assessment dimension**

Audit, assessment and standardization are considered to be the key building blocks of  
performance assessment, which help organizations to quantify their performance and to  
continuously strive for better sustainability. According to Spence and Bourlakis (2009) and  
Foerstl *et al.* (2010), assessment has a positive impact on sustainability performance. Other  
scholars (e.g. Chen, 2005; Kleindorfer *et al.* 2005; Oglethorpe and Heron, 2010; Curkovic and

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Stroufe, 2011) explain how environmental audit and standardization management systems such as ISO14000, Eco-Management and the European Union Audit scheme help organizations to achieve quality processes and products. According to Ching and Moreira (2014), standardization and traceability are identified as required management practices in addition to the often-mentioned practices such as lean, reverse logistics, green purchasing, eco-design and collaboration with suppliers for achieving better sustainability performance.

Grosvold et al. (2014) have developed a framework that explains the methods for achieving sustainability performance through SSCM with third party certifications and supplier training. They have also suggested methods for supplier auditing and assessing and monitoring risk. According to Grimm et al. (2011), lower-tier suppliers are often linked with serious social and environmental issues. Hence, introducing standards is the best indirect method to address such issues and have better coordination within the supply chain. Using sustainability reports from nine companies, Turker and Altuntas (2014) have identified compliance, monitoring, and auditing as the main components of SSCM for supply chain performance improvement, risk avoidance and for choosing suppliers. Hutchins and Sutherland (2008) have quantified the relationship between corporate social decisions and social indicators of sustainability by using the concept of life cycle assessment, and showed that even a single individual corporate decision can affect national level measures of social sustainability of SSCM. Schaltegger and Burritt (2010) have argued towards the use of sustainability accounting and assessment to measure the financial implications and benefits of sustainability initiatives. According to Roehrich et al. (2014), standardization and audit can provide invaluable help to minimize reputational risks and maximize sustainability performance.

### **3.5 Internal factors dimension**

Organizational culture, technology, corporate strategy and commitment are considered to be internal factors, which are directly or indirectly relevant to the sustainability initiatives of organizations. The use of state-of-the art technologies and innovative processes can provide competitive advantage to both firms and their suppliers. According to Geffen and Rothenberg (2000), good supplier relationships help firms promote innovative technologies and joint R&D across the supply chain. Wittstruck and Teuteberg (2012) have concluded that supply networks that adopt a common sustainability strategy, information sharing, and technology infrastructure will benefit and can achieve better sustainability performance.

Lambert (2008) has studied the intangible constructs of SSCM, such as organizational culture, corporate strategy and commitment. According to Carter and Dresner (2001) and Griffiths and Petrick (2001), a lack of corporate strategy and a lack of management involvement will hamper the organization's sustainability achievement efforts. Narasimhan and Das (2001) and Day &

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3 Lichtenstein (2006) have stated that alignment of SSCM strategy with corporate strategy is  
4 necessary for the success of SSCM.

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6 Clelland *et al.* (2000) and Klassen (2001) have asserted the need to develop cleaner process  
7 technologies that minimize waste in manufacturing. Beamon (2008) emphasized the need for  
8 better technological and logistics integration to achieve better SSCM performance. Finally,  
9 scholars including Hanna *et al.*(2000), New *et al.* (2000), and Hughes (2005) have argued that  
10 employee involvement, middle management involvement, and organizational culture need to be  
11 considered when developing sustainable supply chains. However, there are still few papers that  
12 analyze the effect of organizational culture and corporate commitment on the sustainability  
13 performance of supply chains.  
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### 19 20 **3.6 External factors dimension**

21 Government rules and regulations, customer pressures, and competition are amongst the most  
22 important external factors driving the SSCM strategy of organizations. According to Gold *et al.*  
23 (2010b) and Georgiadis and Besiou (2008) legislation from governing bodies, and customer and  
24 stakeholder requirements are highly-relevant enablers of SSCM. However, they underline that  
25 further research is required to explore the interrelationships among the enablers of SSCM.  
26 Kumar & Yamaoka (2007) have shown that tax exemption or relaxation for reverse logistics and  
27 for recycled product exports will boost the sustainability performance of supply chains.  
28 According to scholars including Porter and Van der Linde(1995), Carter and Ellram(1998) and  
29 Amann *et al.*(2014)government policy regulations have a major influence on sustainability  
30 efforts and are a main driving force of SSCM. Literature including Ilbery and Maye (2005),  
31 Smith(2008), Jones *et al.*(2008), Banterle *et al.*(2013), and Shokri *et al.*(2014) emphasizes the  
32 role and importance of cooperation among stakeholders, environmental certification and  
33 government rules and policies in sustainable consumption, production, and recycling in retail  
34 food supply chains. Ross *et al.* (2012) have argued that government has an important role in  
35 the infrastructure development of a country, which is an important enabler of SSCM.  
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38 Furthermore, consumers' impacts on product features (Bask *et al.* 2012),customer pressures  
39 for low-price products (Orsato, 2006), as well as pressures from investors (Trowbridge, 2001)  
40 are important drivers for sustainable supply chains. Darnall *et al.* (2008) have stated that  
41 GSCM complements the environmental management system of an organization, which in turn  
42 is stimulated by external factors such as market demand and environmental regulations.  
43 Furthermore, Koplin *et al.* (2007) have argued that that the policy implications of government  
44 and trade agreements must be integrated with the sustainable supply chain strategy. Griffin *et*  
45 *al.* (2014) have further tested the impact of government acts on the financial performance of  
46 sustainable supply chains. Soosay *et al.* (2012) have argued that government bodies must  
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3 develop regulations for sustainable supply chains while keeping in mind value chain and  
4 product life cycle concepts.

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6 The literature highlights the importance of customers as the focal point of supply chains, e.g.  
7 Handfield *et al.* (1997); Walton *et al.* (1998); Hall (2001); Korpela *et al.* (2001); Childerhouse *et*  
8 *al.* (2002). Therefore, we argue that sustainable supply chain network design should include an  
9 examination of the impact of external factors on SSCM performance and subsequently on the  
10 achievement of sustainable competitive advantage within supply chain networks.  
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#### 14 15 16 **4. Conclusions and further research directions**

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18 In this article we have presented an extensive literature review, and developed a classification  
19 scheme of contributions to the SSCM literature through which we classified the articles into  
20 those aiming at theory building vs. those looking at application based research. Our review of  
21 literature suggests that social issues are not sufficiently studied. These include child labour,  
22 health issues, compensation, discrimination on the basis of ethnicity, caste or creed, and  
23 exploitation of workers. Empirical research fails to capture some of the most important ethical  
24 dimensions and the majority of SSCM literature reviewed has attempted to use OR-based  
25 mathematical models or multi-criteria decision making tools. Furthermore, the majority of the  
26 literature has adopted a rationalist approach and few contributions use methods based on  
27 qualitative case studies, ethnography, or action research. To address these gaps, we have  
28 argued for the need to introduce the term *world-class sustainable supply chain management*  
29 (*WCSSCM*). We have developed a theoretical framework for WCSSCM (Figure 4), which considers  
30 equally the triple bottom line dimensions, while attending to the role of translating external  
31 pressures into strategic and operational performance by taking notice of the role of top  
32 managers, society, employees, and technology.  
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42 Our contribution lies in (i) categorizing and consolidating the different definitions of SSCM and  
43 the relevant enablers of SSCM, through a novel systematic classification and analysis of  
44 literature; (ii) recognising the need for a holistic study of SSCM paying attention to the different  
45 pillars and constructs; (iii) arguing for WCSSCM to address the aforementioned issues; and (iv)  
46 presenting the literature on the basis of our WCSSCM framework. Based on extensive review  
47 we have made some observations along the lines of Ketchen and Hult (2007), in which they  
48 have argued that supply chain management research will benefit from analysing the supply  
49 chain phenomena using the lens of organizational theories. Sarkis *et al.* (2011) attempted to  
50 classify green supply chain management (GSCM) literature on the basis of nine organizational  
51 theories. (We have taken the liberty to exclude the discussion of nine organizational theories to  
52 avoid any repetition of literature.) The discussions are aimed at understanding the missing link  
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3 between SSCM literature and organizational theories. Though there is research that has  
4 embraced organizational theories, with few exceptions most of the articles have attempted to  
5 explain supply chain phenomena using a single point of view. In order to explain complex  
6 phenomena, it is felt that integration of some of the organizational theories will offer better  
7 insights. Hence we feel that there is a huge opportunity to examine current SSCM phenomena  
8 using integrated organizational theories.  
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13 Inspired by Markman and Krause (2014) we would like to encourage researchers to further  
14 study WCSSCM. Our presentation of the relevant literature (Appendix 2) also illustrates the  
15 need to focus on particular subcategories of the dimensions of our proposed framework, to  
16 advance our knowledge on WCSSCM. For instance, in the technology subcategory, there is  
17 interest in how big data science could help both developed and developing countries to learn  
18 how to prevent environmental and human health challenges through sustainable production  
19 and sustainable consumption, by focusing upon prevention rather than primarily upon  
20 pollution control or pollutant treatment or pollutant dilution. This may help to build more  
21 comprehensive frameworks which may not be possible through traditional methodologies and  
22 techniques. These comprehensive frameworks generated using big data may have significant  
23 positive impact on programs surrounding sustainable production and consumption.  
24 Furthermore, we believe that future WCSSCM research can benefit from the use of alternative  
25 methods such as case studies, grounded theory, appreciative enquiry, action research,  
26 ethnographic studies and other methods currently used in other fields (Taylor and Taylor,  
27 2009; Ketokivi and Choi, 2014). In this vein, we will address one of the gaps identified in the  
28 literature, that is, to conduct more studies(theory-building and application-based) in order to  
29 study WCSSCM- related phenomena (e.g. related to social equity, ethical values and welfare,  
30 and the environment).  
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42 Finally, we feel that current SSCM literature has failed to adopt the triangulation method to  
43 validate qualitative work, except for few studies (see Seuring, 2008; Pagell and Wu, 2009).  
44 Hence, it is recommended the use of the triangulation method to validate qualitative research.  
45 We believe that rigorous application of research methods in WCSSCM can provide new  
46 insights. To further reveal finer grain boundaries of microstructure, the use of mixed research  
47 lenses blended with rich organizational theories can take current WCSSCM research forward.  
48 Based on our extensive review we suggest the following research avenues:  
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53 (i)The WCSSCM framework needs empirical validation in order to be established as a  
54 comprehensive and reflective framework;  
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3 (ii) There is pressing need for a suitable costing system for WCSSCM taking into account  
4 appropriate cost drivers and the basis for allocation of overhead costs;  
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6 (iii) New quality standards have to be established for WCSSCM including a new model for Total  
7 Quality Management for WCSSCM;  
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9 (iv) Performance measures and metrics for WCSSCM should be developed as basic managerial  
10 tools;  
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12 (v) Outsourcing models need to be refined based on the characteristics of WCSSCM;  
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14 (vi) Human resource management issues in WCSSCM need to be further investigated.  
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17 One limitation of our study is that the findings are influenced by the selection keywords and  
18 databases used. Therefore it may be that articles not included in these databases were  
19 excluded from our research. However, we followed other researchers (e.g. Gunasekaran *et al.*  
20 2015) in our selection of appropriate keywords, and we find that the majority of highly-ranked  
21 academic journals are included in our selection.  
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25 Notwithstanding the limitation of the study, we believe that this study will offer a new  
26 perspective to those who would like to further study and incorporate WCSSCM in their  
27 research and practice.  
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**Appendix 1**

<b>Appendix 1 Classification of literature based on methodology adopted Theory Building</b>	Theory building	Theory building	Closs <i>et al.</i> (2011); Coyle <i>et al.</i> (2014); Yu and Tseng (2014); Ching & Moreira (2014); Sharma <i>et al.</i> (2010); Beske (2012); Faisal (2010); Kumar & Yamaoka (2007); Fabbe-Costes <i>et al.</i> (2011); Ageron <i>et al.</i> (2012); Vurro <i>et al.</i> (2009); Tachizawa & Yew Wong (2014); Xia & Tang (2011); Kuik <i>et al.</i> (2011); Drake & Schlachter (2008)
		Theory building & theory testing	Chardine-Baumann & Botta-Genoulaz (2014); Hassini <i>et al.</i> (2012); Schaltegger & Burritt (2014); Grosvold <i>et al.</i> (2014); Figge <i>et al.</i> (2002); Okongwu <i>et al.</i> (2013)
		Critical review	Cambero and Sowlati (2014);Martinez-Jurado and Movano-Fuentes (2014);Brandenburg <i>et al.</i> (2014); Beske <i>et al.</i> (2014); Seuring (2013); Schaltegger and Burritt (2010);Ji <i>et al.</i> (2014); Linton <i>et al.</i> (2007); Halldorsson and Kovacs (2010); Jones <i>et al.</i> (2008); Shokri <i>et al.</i> (2014); Giunipero <i>et al.</i> (2006); Ahi & Searcy (2013); Carter & Easton (2011); Dey <i>et al.</i> (2011); Beske & Seuring (2014); Alexander <i>et al.</i> (2014); Gold <i>et al.</i> (2010b); Gupta & Palsule-Desai (2011); Smith (2008); Taticchi <i>et al.</i> (2013); Abbasi & Nilsson (2012); Awudu & Zhang (2012); Bourlakis <i>et al.</i> (2014); Gimenez & Tachizawa (2012); Appolloni <i>et al.</i> (2014); Pagell & Shevchenko (2014); Wiese <i>et al.</i> (2012); Fearne <i>et al.</i> (2012); Attaran & Attaran (2007); Hofmann (2010); Miemczyk <i>et al.</i> (2012); Bai <i>et al.</i> (2010); Kleindorfer <i>et al.</i> (2005); Markley and Davis (2007) Geffen and Rothenberg (2000); Morali and Searcy (2010); Krause <i>et al.</i> (2009); Winter & Knemeyer (2013)
	Alternative Methods	Conceptual frame work through case study/survey	Brindley & Oxborrow (2014); Georgiadis & Besiou (2008); Ilbery& Maye (2005);Frostenson & Prenkert (2014); Soosay <i>et al.</i> (2012); Seuring (2008); Ho & Choi (2012); Ortas <i>et al.</i> (2014);Wolf (2011); Reuter <i>et al.</i> (2010); Banterle <i>et al.</i> (2013); Cheung & Rowlinson (2011); Goldbach <i>et al.</i> (2003); Spekman <i>et al.</i> (1998);Garcia-Arca <i>et al.</i> (2014); Dam & Petkova (2014);Hall & Matos (2010); Sigala (2008);Pagell & Wu (2009); Peters <i>et al.</i> (2011); Curkovic & Sroufe (2011);Wu & Pagell (2011); Tencati <i>et al.</i> (2010); Blome <i>et al.</i> (2014); Keating <i>et al.</i> (2008); Bask <i>et al.</i> (2012); Svensson (2007); Walker and Preuss (2008); Roehrich <i>et al.</i> (2014); Isaksson <i>et al.</i> (2010); Clelland <i>et al.</i> (2000)
Performance assessment framework through case study/survey		Silvestre (2015);Azadi <i>et al.</i> (2014); Tseng & Hung (2014); Hutchins and Sutherland (2008); Matos & Hall (2007); Reefke & Trocchi (2013); Varsei <i>et al.</i> (2014); Hubbard (2009); Brignall & Modell (2000); Vasileiou & Morris (2006); Bai and Sarkis (2014); Bai <i>et al.</i> (2012); Emmanuel-Ebikake <i>et al.</i> (2014); Zhou <i>et al.</i> (2000); Zailani <i>et al.</i> (2012)	
<b>Application-based research</b>	Theory in practice	Industry focused research / survey to explore the existing scenario	Turker & Altuntas (2014); Alvarez <i>et al.</i> (2010); Zhu & Cote (2004); Glover <i>et al.</i> (2014); Wang and Sarkis (2013); Jorgensen & Knudsen (2006); Harms <i>et al.</i> (2013); Ross <i>et al.</i> (2012); Wittstruck & Teuteberg (2012); Grimm <i>et al.</i> (2011); Rokka & Uusitalo (2008); Liu <i>et al.</i> (2012); Cervellon & Wernerfelt (2012); Darnall <i>et al.</i> (2008); Griffin <i>et al.</i> (2014); Koplín <i>et al.</i> (2007); Colicchia <i>et al.</i> (2011); Vachon and Mao (2008); Walker & Jones (2012); Amann <i>et al.</i> (2014)

## Appendix 2

Appendix 2 Classification of literature based on the WCSSCM framework		Environmental	
	Green Design, packaging distribution & Warehousing		Ofori (2000); Griffiths & Petrick (2001); Carter & Jennings (2002a); Tsoufias & Pappis (2006); Linton <i>et al.</i> (2007); Paik & Bagchi (2007); Frota Neto <i>et al.</i> (2008); Rokka & Uusitalo (2008); Haake & Seuring (2009); Holt & Ghobadian (2009); Sharfman <i>et al.</i> (2009); Halldorsson & Kovacs (2010); Ramudhin <i>et al.</i> (2010); Sharma <i>et al.</i> (2010); Wu and Pagell (2011); Abbasi & Nilsson (2012); Chaabane <i>et al.</i> (2012); Wiese <i>et al.</i> (2012); Zailani <i>et al.</i> (2012); Amemba <i>et al.</i> (2013); Dubey <i>et al.</i> (2013); Garbie (2013); Zhu <i>et al.</i> (2013); Coyle <i>et al.</i> (2014); Appolloni <i>et al.</i> (2014); Dubey <i>et al.</i> (2013); Amemba <i>et al.</i> (2013); Ji <i>et al.</i> (2014); Melnyk <i>et al.</i> (2014); Mota <i>et al.</i> (2015)
	Conservation		Zhu <i>et al.</i> (2013); Tsoufias & Pappis (2008); Lamming & Hampson (1996); Despeisse <i>et al.</i> (2012)
	Life Cycle Concept		Badurdeen <i>et al.</i> (2009); Hall & Matos (2007); Kuik <i>et al.</i> (2010);Van Hoof & Lyon (2013)
	Code of Conduct		Keating <i>et al.</i> (2008); Mello & Stank (2005); Hall & Matos (2007); Roberts (2003);
	Employee welfare		Simoes <i>et al.</i> (2014)
	Equity		Keating <i>et al.</i> (2008); Tencati <i>et al.</i> (2010); Mani <i>et al.</i> (2015)
	Public awareness & Ethics		Roberts (2003); Beamon (2005); Lobel (2006); Drake & Schlachter (2008); Sigala (2008); Smith (2008); Rokka & Uusitalo (2008); Gold <i>et al.</i> (2010a); Hall & Matos (2010); Fabbe-Costes <i>et al.</i> (2011); Cervellon and Wernerfelt (2012); Mani <i>et al.</i> (2015)

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**Appendix 2**  
**Classification of literature based on the WCSSCM framework**

Economic stability	<b>Profitability</b>	Guide Jr., &Van Wassenhove (2009); Krause <i>et al.</i> (2009); Wu & Pagell (2011); Zailani <i>et al.</i> (2012); Wang and Sarkis (2012); Glover <i>et al.</i> (2014); Dam&Petkova (2014); Orgas <i>et al.</i> (2014)
	<b>Strategic collaboration &amp; information sharing</b>	Walley & Whitehead (1994); Min & Galle (1997); Spekman <i>et al.</i> (1998); Bierma&Wasterstraat (1999); Geffen&Rothenberg (2000); Carter & Dresner (2001); Min & Galle (2001); Carter&Jennings (2002b); Figge <i>et al.</i> (2002); Goldbach <i>et al.</i> (2003); Choi&Krause (2006); Giuniper <i>et al.</i> (2006); Jorgensen&Knudsen (2006); Vasileiou&Morris (2006); Vachon & Klassen (2006); Vergheese&Lewis (2007); Attaran & Attaran (2007); Ciliberti <i>et al.</i> (2008); Seuring&Muller (2008); Vachon & Klassen (2008); Walker & Preuss (2008); Shafman <i>et al.</i> (2009); Vurro <i>et al.</i> (2009); Bai & Sarkis (2010); Bai <i>et al.</i> (2010); Foerstl <i>et al.</i> (2010); Kuiket <i>et al.</i> (2010); Lee <i>et al.</i> (2010); Sharma <i>et al.</i> (2010); Tencati <i>et al.</i> (2010); Zhou <i>et al.</i> (2010); Cheung & Rowlinson (2011); Curkovic&Sroufe (2011); Peters <i>et al.</i> (2011); Wolf (2011); Zhou <i>et al.</i> (2011); Ashby <i>et al.</i> (2012); Bai <i>et al.</i> (2012); Cervellon&Wernerfelt (2012); Gimenez&Tachizawa (2012); Liu <i>et al.</i> (2012); Bai & Sarkis (2014); Blome <i>et al.</i> (2014); Brindley&Oxborrow (2014); Azadi <i>et al.</i> (2015); Hsueh (2015);
	<b>Logistics optimization</b>	McCullen&Towill (2002); Sheu <i>et al.</i> (2005); Edwards <i>et al.</i> (2010); Sarkis <i>et al.</i> (2010); Awudu & Zhang (2012); Nikolaou <i>et al.</i> (2013); Garcia-Arcaet <i>et al.</i> (2014); Vijayanet <i>et al.</i> (2014)
Operational Performance Assessment	<b>Audit &amp; Assessment</b>	Brignall&Modell (2000); Fransoo&Wouters (2000); Carter & Dresner (2001); Hatfield <i>et al.</i> (2002); Zhou <i>et al.</i> (2004); Chen (2005); Hervani <i>et al.</i> (2005); Kleindorfer <i>et al.</i> (2005); Rao & Holt (2005); Zhou <i>et al.</i> (2005); Day&Lichtenstein (2006); Zhou & Sarkis (2007); Hutchins <i>et al.</i> (2008); Zhou <i>et al.</i> (2008); Hubbard (2009); Spence & Bourlakis (2009); Foerstl <i>et al.</i> (2010); Isaksson <i>et al.</i> (2010); Schaltegger&Burritt (2010); Testa & Iraldo (2010); Azevedo <i>et al.</i> (2011); Colicchia <i>et al.</i> (2011); Curkovic&Sroufe (2011); Grimm <i>et al.</i> (2011); Chen <i>et al.</i> (2012); Hassini <i>et al.</i> (2012); Shi <i>et al.</i> (2012); Wittstruck&Teuteberg (2012); Zhou <i>et al.</i> (2012); Plambeck <i>et al.</i> (2013); Reefke&Trocchi (2013); Taticchi <i>et al.</i> (2013); Varsei <i>et al.</i> (2013); Wu & Sarkis (2013); Yusuf <i>et al.</i> (2013); Zhou <i>et al.</i> (2013); Beske & Seuring (2014); Bourlakis <i>et al.</i> (2014); Chardine-Baumann&Botta-Genoulaz (2014); Emmanuel-Ebikake <i>et al.</i> (2014); Grosvold <i>et al.</i> (2014); Garbie <i>et al.</i> (2014); Ortas <i>et al.</i> (2014); Roehrichet <i>et al.</i> (2014); Schaltegger&Burritt (2014); Schrettelet <i>et al.</i> (2014); Turker&Altuntas (2014); Yu & Cheng (2014); Dubey <i>et al.</i> (2015); Gunasekaran <i>et al.</i> (2015); Luzzini <i>et al.</i> (2015)

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**Standardization**

Rosenet *al.* (2002); Ching & Moreira (2014)

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<b>Appendix 2</b> <b>Classification of literature based on the WCSSCM framework</b>	Internal factors	<b>Organizational Culture</b>	Hanna <i>et al.</i> (2000); Geffen&Rothenberg (2000); New <i>et al.</i> (2000); McAfee <i>et al.</i> (2002); Hughes (2005); Mello & Stank (2005); Lambert (2008); Wittstruck&Teuteberg (2012); Harms <i>et al.</i> (2013)
		<b>Technology</b>	Klassen (2001); Gunasekaran&Ngai (2004); Beamon (2008); Clelland <i>et al.</i> (2008); Darnallet <i>et al.</i> (2008); Deif (2011); Wittstruck&Teuteberg (2012)
		<b>Corporate Strategy &amp; Commitment</b>	Handfield <i>et al.</i> (1997); Zhou <i>et al.</i> (2000); Carter & Dresner (2001); Griffiths & Patrick (2001); Narasimhan&Das (2001); Maignan&Mcalister (2003); Forman&Jorgensen (2004); Zhou & Cote (2004); Ilbery&Maye (2005); Day&Lichtenstein (2006);Giunipero <i>et al.</i> (2006); Markley&Davis (2007); Svensson(2007); Halldorsson <i>et al.</i> (2009);Alvarez <i>et al.</i> (2010); Hofmann (2010); Klassen (2010); Mollenkopf <i>et al.</i> (2010); Park <i>et al.</i> (2010); Reuter <i>et al.</i> (2010); Sarkis <i>et al.</i> (2010); Dey <i>et al.</i> (2011); Wolf (2011); Xia & Tang (2011); Keating <i>et al.</i> (2012); Ho & Choi (2012); Law & Gunasekaran (2012); Kang <i>et al.</i> (2009); Singh <i>et al.</i> (2012); Walker & Jones (2012); Wu <i>et al.</i> (2012); Hoejmose <i>et al.</i> (2013); Okongwu <i>et al.</i> (2013); Frostenson&Prenkert (2014);Tseng <i>et al.</i> (2014); Silvestre (2015)
	External factors	<b>Government rules &amp; Regulations</b>	Porter&Van der Linde (1995); Carter and Ellram (1998); Ilbery & Maye (2005); Siaminweet <i>et al.</i> (2005); Zhu <i>et al.</i> (2005); Jayaraman <i>et al.</i> (2007); Kassolis (2007); Koplina <i>et al.</i> (2007); Kumar & Yamaoka (2007); Preuss (2007); Font <i>et al.</i> (2008); Georgiadis & Besiou (2008); Jones <i>et al.</i> (2008); Smith (2008); Vachon & Mao (2008); Holt & Ghobadian (2009); Spence & Bourlakis (2009);Gold <i>et al.</i> (2010b); Park <i>et al.</i> (2010); Kang <i>et al.</i> (2012); Ross <i>et al.</i> (2012); Soosay <i>et al.</i> (2012); Wu <i>et al.</i> (2012); Banterle <i>et al.</i> (2013); Amannet <i>et al.</i> (2014);Coyle <i>et al.</i> (2014); Griffin <i>et al.</i> (2014); Shokri <i>et al.</i> (2014); Silvestre (2015)
		<b>Customer Pressure</b>	Lamming&Hampson (1996); Walton <i>et al.</i> (1998); Hall (2001); Handfield <i>et al.</i> (2001); Korpela <i>et al.</i> (2001); Childerhouse <i>et al.</i> (2002); Maignan&Mcalister (2003); Lobel (2006); Orsato <i>et al.</i> (2006); Seyfang (2006); Teuscher <i>et al.</i> (2006); Park <i>et al.</i> (2010); Hazen <i>et al.</i> (2011); Ageron <i>et al.</i> (2012); Bask <i>et al.</i> (2012)
		<b>Competition</b>	Lamming&Hampson (1996); Hall (2001); Trowbridge (2001); Park <i>et al.</i> (2010); Ageron <i>et al.</i> (2012); Sheu <i>et al.</i> (2012); Wu <i>et al.</i> (2012);

## References

- Abbasi, M., & Nilsson, F. (2012). Themes and challenges in making supply chains environmentally sustainable. *Supply Chain Management: An International Journal*, 17(5), 517-530.
- Ageron, B., Gunasekaran, A., & Spalanzani, A. (2012). Sustainable supply management: An empirical study. *International Journal of Production Economics*, 140(1), 168-182.
- Ahi, P., & Searcy, C. (2013). A comparative literature analysis of definitions for green and sustainable supply chain management. *Journal of Cleaner Production*, 52, 329-341.
- Alexander, A., Walker, & Naim, M. (2014). Decision theory in sustainable supply chain management: a literature review. *Supply Chain Management: An International Journal*, 19(5/6), 504-522.
- Alvarez, G., Pilbeam, C., & Wilding, R. (2010). Nestle Nespresso AAA sustainable quality program: an investigation into the governance dynamics in a multi-stakeholder supply chain network. *Supply Chain Management: An International Journal*, 15(2), 165-182.
- Amann, M., Roehrich, J., Eßig, M., & Harland, C. (2014). Driving Sustainable Supply Chain Management in the Public Sector: The Importance of Public Procurement in the European Union. *Supply Chain Management: An International Journal*, 19(3), 10-10.
- Amemba, C. S., Nyaboke, P. G., Osoro, A., & Mburu, N. (2013). Elements of Green Supply Chain Management. *European Journal of Business and Management*, 5(12), 51-61.
- Appolloni, A., Sun, Jia, F., & Xiaomei, L. (2014). Green Procurement in the private sector: a state of the art review between 1996 and 2013. *Journal of Cleaner Production*, 85, 122-133.
- Aronsson, H., & Huge Brodin, M. (2006). The environmental impact of changing logistics structures. *The international journal of logistics management*, 17(3), 394-415.
- Ashby, A., Leat, M., & Hudson-Smith, M. (2012). Making connections: a review of supply chain management and sustainability literature. *Supply Chain Management: An International Journal*, 17(5), 497-516.
- Attaran, M., & Attaran, S. (2007). Collaborative supply chain management: the most promising practice for building efficient and sustainable supply chains. *Business Process Management Journal*, 13(3), 390-404.
- Awudu, I., & Zhang, J. (2012). Uncertainties and sustainability concepts in biofuel supply chain management: A review. *Renewable and Sustainable Energy Reviews*, 16(2), 1359-1368.
- Azadi, M., Jafarian, M., Farzipoor Saen, R., & Mirhedayatian, S. M. (2014). A new fuzzy DEA model for evaluation of efficiency and effectiveness of suppliers in sustainable supply chain management context. *Computers & Operations Research*, 54, 274-285.
- Azevedo, S. G., Carvalho, & Cruz Machado, V. (2011). The influence of green practices on supply chain performance: a case study approach. *Transportation research part E: logistics and transportation review*, 47(6), 850-871.



- 1  
2  
3 Badurdeen, F., Iyengar, D., Goldsby, T. J., Metta, *et al.*, Gupta, S., & Jawahir, I. S. (2009).  
4 Extending total life-cycle thinking to sustainable supply chain design. *International*  
5 *Journal of Product Lifecycle Management*, 4(1), 49-67.  
6
- 7 Bai, C. & Sarkis, J. (2010). Greener Supplier Development: Analytical Evaluation Using Rough  
8 Set Theory. *Journal of Cleaner Production*, 17 (2): 255-264.  
9
- 10 Bai, C., Sarkis, J., & Wei, X. (2010). Addressing key sustainable supply chain management  
11 issues using rough set methodology. *Management Research Review*, 33(12), 1113-1127.  
12
- 13 Bai, C., Sarkis, J., Wei, X., & Koh, L. (2012). Evaluating ecological sustainable performance  
14 measures for supply chain management. *Supply Chain Management: An International*  
15 *Journal*, 17(1), 78-92.  
16
- 17 Bai, C. & Sarkis, J. (2014). Determining and Applying Sustainable Supplier Key Performance  
18 Indicators. *Supply Chain Management: An International Journal*, 19(3), 5-5.  
19
- 20 Banterle, A., Cereda, E., & Fritz, M. (2013). Labeling and sustainability in food supply  
21 networks: A comparison between the German and Italian markets. *British Food*  
22 *Journal*, 115(5), 769-783.  
23
- 24 Bask, A., Halme, M., Kallio, M., & Kuula, M. (2013). Consumer preferences for sustainability  
25 and their impact on supply chain management: The case of mobile phones. *International*  
26 *Journal of Physical Distribution & Logistics Management*, 43(5/6), 380-406.  
27
- 28 Beamon, B. M. (2005). Environmental and sustainability ethics in supply chain  
29 management. *Science and Engineering Ethics*, 11(2), 221-234.  
30
- 31 Beamon, B. M. (2008). Sustainability and the future of supply chain management. *Operations*  
32 *and Supply Chain Management*, 1(1), 4-18.  
33
- 34 Beske, P. (2012). Dynamic capabilities and sustainable supply chain  
35 management. *International Journal of Physical Distribution & Logistics*  
36 *Management*, 42(4), 372-387.  
37
- 38 Beske, P., & Seuring, S. (2014). Putting Sustainability into Supply Chain Management. *Supply*  
39 *Chain Management: An International Journal*, 19(3), 8-8.  
40
- 41 Beske, P., Land, A., & Seuring, S. (2014). Sustainable supply chain management practices and  
42 dynamic capabilities in the food industry: A critical analysis of the  
43 literature. *International Journal of Production Economics*, 152, 131-143.  
44
- 45 Bierma, T.J. & Wasterstraat, F.L. (1999). Cleaner Production from Chemical Suppliers:  
46 Understanding Shared Savings Contracts. *Journal of Cleaner Production* 7 (2): 145-158.  
47
- 48 Blome, C., Paulraj, A., & Schuetz, K. (2014). Supply chain collaboration and sustainability: a  
49 profile deviation analysis. *International Journal of Operations & Production*  
50 *Management*, 34(5), 639-663.  
51
- 52 Brown, G., & Stone, L. (2007). From Cleaner Production to Sustainable Production and  
53 Consumption in Australia and New Zealand: Achievements, Challenges, and  
54 Opportunities. *Journal of Cleaner Production*, 15(8-9), 716-728.  
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- Bourlakis, M., Maglaras, G., Gallear, D., & Fotopoulos, C. (2014). Examining sustainability performance in the supply chain: The case of the Greek dairy sector. *Industrial Marketing Management*, 43(1), 56-66.
- Brandenburg, M., Govindan, K., Sarkis, J., & Seuring, S. (2014). Quantitative models for sustainable supply chain management: Developments and directions. *European Journal of Operational Research*, 233(2), 299-312.
- Brignall, S., & Modell, S. (2000). An institutional perspective on performance measurement and management in the 'new public sector'. *Management Accounting Research*, 11(3), 281-306.
- Brindley, C., & Oxborrow, L. (2014). Aligning the sustainable supply chain to green marketing needs: A case study. *Industrial Marketing Management*, 43(1), 45-55.
- Cambero, C., & Sowlati, T. (2014). Assessment and optimization of forest biomass supply chains from economic, social and environmental perspectives—A review of literature. *Renewable and Sustainable Energy Reviews*, 36, 62-73.
- Carter, C. R., & Dresner, M. (2001). Purchasing's Role in Environmental Management: Cross Functional Development of Grounded Theory. *Journal of Supply Chain Management*, 37(2), 12-27.
- Carter, C. R., & Easton, P. L. (2011). Sustainable supply chain management: evolution and future directions. *International Journal of Physical Distribution & Logistics Management*, 41(1), 46-62.
- Carter, C. R., & Jennings, M. M. (2002a). Logistics social responsibility: an integrative framework. *Journal of business logistics*, 23(1), 145-180.
- Carter, C. R., & Jennings, M. M. (2002b). Social responsibility and supply chain relationships. *Transportation Research Part E: Logistics and Transportation Review*, 38(1), 37-52.
- Carter, C. R., & Rogers, D. S. (2008). A framework of sustainable supply chain management: moving toward new theory. *International journal of physical distribution & logistics management*, 38(5), 360-387.
- Carter, C.R., & Ellram, L.M. (1998). Reverse logistics: a review of the literature and framework for future investigation. *International Journal of Purchasing and Materials Management*, 34(4), 28-38.
- Cervellon, M. C., & Wernerfelt, A. S. (2012). Knowledge sharing among green fashion communities online: Lessons for the sustainable supply chain. *Journal of Fashion Marketing and Management*, 16(2), 176-192.
- Chaabane, A., Ramudhin, A., & Paquet, M. (2011). Designing supply chains with sustainability considerations. *Production Planning & Control*, 22(8), 727-741.
- Chaabane, A., A. Ramudhin & M. Paquet. (2012). Design of Sustainable Supply Chains under Emission Trading Scheme. *International Journal of Production Economics* 135 (1): 37-49.
- Chardine-Baumann, E., & Botta-Genoulaz, V. (2014). A framework for sustainable performance assessment of supply chain management practices. *Computers & Industrial Engineering*, 76, 138-147.



- 1  
2  
3  
4 Chen, C. C. (2005). Incorporating green purchasing into the frame of ISO 14000. *Journal of*  
5 *Cleaner Production*, 13(9), 927-933.  
6  
7 Chen, C., Zhu, J., Yu, J-Y. & Noori, H. (2012). A new methodology for evaluating sustainable  
8 product design performance with two-stage network data envelopment  
9 analysis. *European Journal of Operational Research*, 221(2), 348-359.  
10  
11 Cheung, K. F., & Rowlinson, S. (2011). Supply chain sustainability: a relationship management  
12 approach. *International Journal of Managing Projects in Business*, 4(3), 480-497.  
13  
14 Childerhouse, P., Aitken, J., & Towill, D. R. (2002). Analysis and design of focused demand  
15 chains. *Journal of Operations Management*, 20(6), 675-689.  
16  
17 Ching, H. Y., & Moreira, M. A. (2014). Management Systems and Good Practices Related to the  
18 Sustainable Supply Chain Management. *Journal of Management and Sustainability*, 4(2),  
19 p34.  
20  
21 Choi, T. & Krause, D. R. (2006). The supply base and its complexity: Implications for  
22 transaction costs, risks, responsiveness, and innovation. *Journal of Operations*  
23 *Management*, 24, 637-652.  
24  
25 Ciliberti, F., Pontrandolfo, P., & Scozzi, B. (2008). Investigating corporate social responsibility  
26 in supply chains: a SME perspective. *Journal of cleaner production*, 16(15), 1579-1588.  
27  
28 Clelland, I. J., Dean, T. J., & Douglas, T. J. (2000). Stepping towards sustainable business: An  
29 evaluation of waste minimization practices in US manufacturing. *Interfaces*, 30(3), 107-  
30 124.  
31  
32 Closs, D. J., Speier, C., & Meacham, N. (2011). Sustainability to support end-to-end value  
33 chains: the role of supply chain management. *Journal of the Academy of Marketing*  
34 *Science*, 39(1), 101-116.  
35  
36 Colicchia, C., Melacini, M., & Perotti, S. (2011). Benchmarking supply chain sustainability:  
37 insights from a field study. *Benchmarking: an international journal*, 18(5), 705-732.  
38  
39 Coyle, J. J., Thomchick, E. A., & Ruamsook, K. (2014). Environmentally Sustainable Supply  
40 Chain Management: An Evolutionary Framework. In *Marketing Dynamism &*  
41 *Sustainability: Things Change, Things Stay the Same...* (pp. 365-374). Springer  
42 International Publishing.  
43  
44 Curkovic, S., & Sroufe, R. (2011). Using ISO 14001 to promote a sustainable supply chain  
45 strategy. *Business Strategy and the Environment*, 20(2), 71-93.  
46  
47 Dam, L., & Petkova, B. N. (2014). The impact of environmental supply chain sustainability  
48 programs on shareholder wealth. *International Journal of Operations & Production*  
49 *Management*, 34(5), 586-609.  
50  
51 Darnall, N., Jolley, G. J., & Handfield, R. (2008). Environmental management systems and  
52 green supply chain management: complements for sustainability? *Business Strategy and*  
53 *the Environment*, 17(1), 30-45.  
54  
55 Day, M., & Lichtenstein, S. (2006). Strategic supply management: the relationship between  
56 supply management practices, strategic orientation and their impact on organizational  
57 performance. *Journal of Purchasing and Supply Management*, 12(6), 313-321.  
58  
59  
60

- 1  
2  
3  
4 Dey, A., LaGuardia, P., & Srinivasan, M. (2011). Building sustainability in logistics operations:  
5 a research agenda. *Management Research Review*, 34(11), 1237-1259.  
6
- 7 Deif, A.M. (2011). A System Model for Green Manufacturing. *International Journal of Cleaner*  
8 *Production* 19 (14): 1553–1559.  
9
- 10 Despeisse, M., Ball, P. D., Evans, S., & Levers, A. (2012). Industrial ecology at factory level—a  
11 conceptual model. *Journal of Cleaner Production*, 31, 30-39.  
12
- 13 Drake, M. J., & Schlachter, J. T. (2008). A virtue-ethics analysis of supply chain  
14 collaboration. *Journal of Business Ethics*, 82(4), 851-864.  
15
- 16 Dubey, R., Bag, S., Ali, S. S., & Venkatesh, V. G. (2013). Green purchasing is key to superior  
17 performance: an empirical study. *International Journal of Procurement Management*, 6(2),  
18 187-210.  
19
- 20 Dubey, R., Gunasekaran, A., & Chakraborty, A. (2015). World Class Sustainable Manufacturing:  
21 Framework and a Performance Measurement System. *International Journal of Production*  
22 *Research*, 53(17), 5207-5223.  
23
- 24 Edwards, J. B., McKinnon, A. C., & Cullinane, S. L. (2010). Comparative analysis of the carbon  
25 footprints of conventional and online retailing: A “last mile” perspective. *International*  
26 *Journal of Physical Distribution & Logistics Management*, 40(1/2), 103-123.  
27
- 28 Eisenhardt, K. M., & Martin, J. A. (2000). Dynamic capabilities: what are they? *Strategic*  
29 *management journal*, 21(10-11), 1105-1121.  
30
- 31 Elkington, J. (1997). *Cannibals with forks: The triple bottom line of 21st century*. Capstone  
32
- 33 Emmanuel-Ebikake, O., Roy, R., & Shehab, E. (2014). Supplier sustainability assessment for  
34 the UK defence industry. *International Journal of Productivity and Performance*  
35 *Management*, 63(8), 968-990.  
36
- 37 Fabbe-Costes, N., Roussat, C., & Colin, J. (2011). Future sustainable supply chains: what  
38 should companies scan? *International Journal of Physical Distribution & Logistics*  
39 *Management*, 41(3), 228-252.  
40
- 41 Faisal, M. N. (2010). Sustainable supply chains: a study of interaction among the  
42 enablers. *Business Process Management Journal*, 16(3), 508-529.  
43
- 44 Fearne, A., Martinez, M. G., & Dent, B. (2012). Dimensions of sustainable value chains:  
45 implications for value chain analysis. *Supply Chain Management: an International*  
46 *Journal*, 17(6), 575-581.  
47
- 48 Figge, F., Hahn, T., Schaltegger, S., & Wagner, M. (2002). The sustainability balanced  
49 scorecard—linking sustainability management to business strategy. *Business Strategy*  
50 *and the Environment*, 11(5), 269-284.  
51
- 52 Foerstl, K., Reuter, C., Hartmann, E., & Blome, C. (2010). Managing supplier sustainability  
53 risks in a dynamically changing environment—Sustainable supplier management in the  
54 chemical industry. *Journal of Purchasing and Supply Management*, 16(2), 118-130.  
55
- 56 Font, X., Tapper, R., Schwartz, K., & Kornilaki, M. (2008). Sustainable supply chain  
57 management in tourism. *Business strategy and the environment*, 17(4), 260-271.  
58  
59  
60

- 1  
2  
3  
4 Forman, M., & Jorgensen, M. S. (2004). Organising environmental supply chain  
5 management. *Greener Management International*, 45(1), 43-62.  
6
- 7 Fransoo, J. C., & Wouters, M. J. (2000). Measuring the bullwhip effect in the supply  
8 chain. *Supply Chain Management: An International Journal*, 5(2), 78-89.  
9
- 10 Frostenson, M., & Prenekert, F. (2014). Sustainable supply chain management when focal firms  
11 are complex: A network perspective. *Journal of Cleaner Production*, xx, 1-10.  
12
- 13 Frota Neto, J. Q., Bloemhof-Ruwaard, J. M., Van Nunen, J. A. E. E., & Van Heck, E. (2008).  
14 Designing and evaluating sustainable logistics networks. *International Journal of*  
15 *Production Economics*, 111(2), 195-208.  
16
- 17 Garbie, I. H. (2013). DFSME: design for sustainable manufacturing enterprises (an economic  
18 viewpoint). *International Journal of Production Research*, 51(2), 479-503.  
19
- 20 Garbie, I. H. (2014). An analytical technique to model and assess sustainable development  
21 index in manufacturing enterprises. *International Journal of Production Research*, 52(16),  
22 4876-4915.  
23
- 24 Garcia-Arca, J., Prado-Prado, J. C., & Garrido, A. T. G. P. (2014). "Packaging logistics":  
25 promoting sustainable efficiency in supply chains. *International Journal of Physical*  
26 *Distribution & Logistics Management*, 44(4), 325-346.  
27
- 28 Garetti, M., & Taisch, M. (2012). Sustainable manufacturing: trends and research  
29 challenges. *Production Planning & Control*, 23(2-3), 83-104.  
30
- 31 Geffen, C., & Rothenberg, S. (2000). Sustainable development across firm boundaries: the  
32 critical role of suppliers in environmental innovation. *International Journal of Operations*  
33 *& Production Management*, 20(2), 166-86.  
34
- 35 Georgiadis, P., & Besiou, M. (2008). Sustainability in electrical and electronic equipment  
36 closed-loop supply chains: a system dynamics approach. *Journal of Cleaner*  
37 *Production*, 16(15), 1665-1678.  
38
- 39 Gimenez, C., & Tachizawa, E. M. (2012). Extending sustainability to suppliers: a systematic  
40 literature review. *Supply Chain Management: An International Journal*, 17(5), 531-543.  
41
- 42 Gimenez, C., Sierra, V., & Rodon, J. (2012). Sustainable operations: Their impact on the triple  
43 bottom line. *International Journal of Production Economics*, 140(1), 149-159.  
44
- 45 Giunipero, L., Handfield, R. B., & Eltantawy, R. (2006). Supply management's evolution: key  
46 skill sets for the supply manager of the future. *International Journal of Operations &*  
47 *Production Management*, 26(7), 822-844.  
48
- 49 Glover, J. L., Champion, D., Daniels, K. J., & Dainty, A. J. D. (2014). An Institutional Theory  
50 perspective on sustainable practices across the dairy supply chain. *International Journal*  
51 *of Production Economics*, 152, 102-111.  
52
- 53 Gold, S., Seuring, S., & Beske, P. (2010a). Sustainable supply chain management and inter-  
54 organizational resources: a literature review. *Corporate Social Responsibility and*  
55 *Environmental Management*, 17(4), 230-245.  
56  
57  
58  
59  
60

- 1  
2  
3 Gold, S., Seuring, S., & Beske, P. (2010b). The constructs of sustainable supply chain  
4 management—a content analysis based on published case studies. *Progress in Industrial*  
5 *Ecology, an International Journal*, 7(2), 114-137.
- 6  
7 Goldbach, M., Seuring, S., & Back, S. (2003). Co-ordinating sustainable cotton chains for the  
8 mass market. *Greener Management International*, 2003(43), 65-78.
- 9  
10 Gopal, P. R. C., & Thakkar, J. (2016). Sustainable supply chain practices: an empirical  
11 investigation on Indian automobile industry. *Production Planning & Control*, 27(1), 49-64.
- 12  
13 Govindan, K., Kaliyan, M., Kannan, D., & Haq, A. N. (2014). Barriers analysis for green supply  
14 chain management implementation in Indian industries using analytic hierarchy  
15 process. *International Journal of Production Economics*, 147(PART B), 555-568.
- 16  
17 Griffin, A. P., Lont, D. H., & Sun, Y., (2014). Supply chain sustainability: evidence on conflict  
18 minerals. *Pacific Accounting Review*, 26(1/2), 28-53.
- 19  
20 Griffiths, A., & Petrick, J. A. (2001). Corporate architectures for sustainability. *International*  
21 *Journal of Operations & Production Management*, 21(12), 1573-1585.
- 22  
23 Grimm, J., Hofstetter, J. S., Mueggler, M., & Peters, N. J. (2011). Institutionalizing proactive  
24 sustainability standards in supply chains: Which institutional entrepreneurship  
25 capabilities matter. *Cross-Sector Leadership for the Green Economy. Integrating Research*  
26 *and Practice on Sustainable Enterprise. New York: Palgrave Macmillan*, 177-193.
- 27  
28 Grosvold, J., Hoejmosé, S., & Roehrich, J. (2014). Squaring the Circle: Management,  
29 Measurement and Performance of Sustainability in Supply Chains. *Supply Chain*  
30 *Management: An International Journal*, 19(3), 6-6.
- 31  
32 Guide Jr, V. D. R., and Van Wassenhove, L. N. (2009). OR FORUM—the evolution of closed-loop  
33 supply chain research. *Operations Research*, 57(1), 10-18.
- 34  
35 Gunasekaran, A., & Ngai, E. (2004). Information systems in supply chain integration and  
36 management. *European Journal of Operational Research*, 159(2), 269-295.
- 37  
38 Gunasekaran, A., & Spalanzani, A. (2012). Sustainability of manufacturing and services:  
39 Investigations for research and applications. *International Journal of Production*  
40 *Economics*, 140(1), 35-47.
- 41  
42 Gunasekaran, A., Irani, Z., Choy, K-L., Filippi, L., and Papadopoulos, T. (2015) Performance  
43 measures and metrics in outsourcing decisions: a review for research and applications.  
44 *International Journal of Production Economics*, 161, 153-166.
- 45  
46 Gupta, S., & Palsule-Desai, O. D. (2011). Sustainable supply chain management: review and  
47 research opportunities. *IIMB Management Review*, 23(4), 234-245.
- 48  
49 Haake, H., & Seuring, S. (2009). Sustainable procurement of minor items—exploring limits to  
50 sustainability. *Sustainable development*, 17(5), 284-294.
- 51  
52 Hall, J. (2001). Environmental supply-chain innovation. *Greener Management*  
53 *International*, 2001(35), 105-119.
- 54  
55 Hall, J., & Matos, S. (2010). Incorporating impoverished communities in sustainable supply  
56 chains. *International Journal of Physical Distribution & Logistics Management*, 40(1/2),  
57 124-147.
- 58  
59  
60

- 1  
2  
3  
4 Halldorsson, A., & Kovacs, G. (2010). The sustainable agenda and energy efficiency: Logistics  
5 solutions and supply chains in times of climate change. *International Journal of Physical*  
6 *Distribution & Logistics Management*, 40(1/2), 5-13.  
7
- 8 Halldorsson, A., & Kovacs, G. (2010). The sustainable agenda and energy efficiency: Logistics  
9 solutions and supply chains in times of climate change. *International Journal of Physical*  
10 *Distribution & Logistics Management*, 40(1/2), 5-13.  
11
- 12 Halldorsson, A., Kotzab, H., & Skjøtt-Larsen, T. (2009). Supply chain management on the  
13 crossroad to sustainability: a blessing or a curse? *Logistics Research*, 1(2), 83-94.  
14
- 15 Handfield, R. B., Walton, S. V., Seegers, L. K., & Melnyk, S. A. (1997). 'Green' value chain  
16 practices in the furniture industry. *Journal of Operations Management*, 15(4), 293-315.  
17
- 18 Handfield, R., Walton, S. V., Sroufe, R., & Melnyk, S. A. (2002). Applying environmental criteria  
19 to supplier assessment: A study in the application of the Analytical Hierarchy  
20 Process. *European Journal of Operational Research*, 141(1), 70-87.  
21
- 22 Hanna, M. D., Newman, R., & Johnson, P. (2000). Linking operational and environmental  
23 improvement through employee involvement. *International Journal of Operations &*  
24 *Production Management*, 20(2), 148-165.  
25
- 26 Harms, D., Hansen, E. G., & Schaltegger, S. (2013). Strategies in sustainable supply chain  
27 management: an empirical investigation of large German companies. *Corporate Social*  
28 *Responsibility and Environmental Management*, 20(4), 205-218.  
29
- 30 Hassini, E., Surti, C., & Searcy, C. (2012). A literature review and a case study of sustainable  
31 supply chains with a focus on metrics. *International Journal of Production*  
32 *Economics*, 140(1), 69-82.  
33
- 34 Hazen, B. T., Cegielski, C., & Hanna, J. B. (2011). Diffusion of green supply chain  
35 management: Examining perceived quality of green reverse logistics. *The International*  
36 *Journal of Logistics Management*, 22(3), 373-389.  
37
- 38 Hervani, A. A., Helms, M. M., & Sarkis, J. (2005). Performance measurement for green supply  
39 chain management. *Benchmarking: An International Journal*, 12(4), 330-353.  
40
- 41 Ho, P. & Choi, T. M. (2012). A Five-R analysis for sustainable fashion supply chain  
42 management in Hong Kong: a case analysis. *Journal of Fashion Marketing and*  
43 *Management*, 16(2), 161-175.  
44
- 45 Hoejmoose, S., Brammer, S., & Millington, A. (2013). An empirical examination of the  
46 relationship between business strategy and socially responsible supply chain  
47 management. *International Journal of Operations & Production Management*, 33(5), 589-  
48 621.  
49
- 50 Hofmann, E. (2010). Linking corporate strategy and supply chain management. *International*  
51 *Journal of Physical Distribution & Logistics Management*, 40(4), 256-276.  
52
- 53 Holt, D., & Ghobadian, A. (2009). An empirical study of green supply chain management  
54 practices amongst UK manufacturers. *Journal of Manufacturing Technology*  
55 *Management*, 20(7), 933-956.  
56  
57  
58  
59  
60



- 1  
2  
3 Hsueh, C. F. (2015). A bilevel programming model for corporate social responsibility  
4 collaboration in sustainable supply chain management. *Transportation Research Part E:*  
5 *Logistics and Transportation Review*, 73, 84-95.  
6
- 7 Hubbard, G. (2009). Measuring organizational performance: beyond the triple bottom  
8 line. *Business Strategy and the Environment*, 18(3), 177-191.  
9
- 10 Hughes, A. (2005). Corporate strategy and the management of ethical trade: the case of the UK  
11 food and clothing retailers. *Environment and Planning*, 37(7), 1145-1163.  
12
- 13 Hutchins, M. J., & Sutherland, J. (2008). An exploration of measures of social sustainability  
14 and their application to supply chain decisions. *Journal of Cleaner Production*, 16(15),  
15 1688-1698.  
16
- 17 Ilbery, B., & Maye, D. (2005). Food supply chains and sustainability: evidence from specialist  
18 food producers in the Scottish/English borders. *Land Use Policy*, 22(4), 331-344.  
19
- 20 Isaksson, R., Johansson, P., & Fischer, K. (2010). Detecting supply chain innovation potential  
21 for sustainable development. *Journal of business ethics*, 97(3), 425-442.  
22
- 23 Jayaraman, V., Klassen, R., & Linton, J. D. (2007). Supply chain management in a sustainable  
24 environment. *Journal of Operations Management*, 25(6), 1071-1074.  
25
- 26 Ji, G., Gunasekaran, A., & Yang, G. (2014). Constructing sustainable supply chain under  
27 double environmental medium regulations. *International Journal of Production*  
28 *Economics*, 147, 211-219.  
29
- 30 Jones, P., Comfort, D., & Hillier, D. (2008). Moving towards sustainable food retailing.  
31 *International Journal of Retail and Distribution Management*, 36(12), 995-1001.  
32
- 33 Jorgensen, A. L., & Knudsen, J. S. (2006). Sustainable competitiveness in global value chains:  
34 how do small Danish firms behave? *Corporate Governance*, 6(4), 449-462.  
35
- 36 Kang, S., Kang, B., Shin, K., Kim, D., & Han, J. (2012). A theoretical framework for strategy  
37 development to introduce sustainable supply chain management. *Procedia-Social and*  
38 *Behavioral Sciences*, 40, 631-635.  
39
- 40 Kassolis, M. G. (2007). The diffusion of environmental management in Greece through  
41 rationalist approaches: driver or product of globalisation? *Journal of Cleaner*  
42 *Production*, 15(18), 1886-1893.  
43
- 44 Keating, B., Quazi, A., Kriz, A., & Coltman, T. (2008). In pursuit of a sustainable supply chain:  
45 insights from Westpac Banking Corporation. *Supply Chain Management: An International*  
46 *Journal*, 13(3), 175-179.  
47
- 48 Klassen, R. D. (2001). Plant level environmental management orientation: the influence of  
49 management views and plant characteristics. *Production and Operations*  
50 *Management*, 10(3), 257-275.  
51
- 52 Ketchen, D. J., & Hult, G. T. M. (2007). Bridging organization theory and supply chain  
53 management: The case of best value supply chains. *Journal of Operations Management*,  
54 25(2), 573-580.  
55
- 56 Kleindorfer, P. R., Singhal, K., & Wassenhove, L. N. (2005). Sustainable operations  
57 management. *Production and operations management*, 14(4), 482-492.  
58  
59  
60

- 1  
2  
3  
4 Koplín, J., Seuring, S., & Mesterharm, M. (2007). Incorporating sustainability into supply  
5 management in the automotive industry—the case of the Volkswagen AG. *Journal of*  
6 *Cleaner Production*, 15(11), 1053-1062.  
7
- 8 Korpela, J., Lehmusvaara, A., & Tuominen, M. (2001). Customer service based design of the  
9 supply chain. *International Journal of Production Economics*, 69 (2), 193-204.  
10
- 11 Krause, D. R., Vachon, S., & Klassen, R. D. (2009). Special topic forum on sustainable supply  
12 chain management: introduction and reflections on the role of purchasing  
13 management. *Journal of Supply Chain Management*, 45(4), 18-25.  
14
- 15 Kuik, S. S., Nagalingam, S. V., & Amer, Y. (2011). Sustainable supply chain for collaborative  
16 manufacturing. *Journal of Manufacturing Technology Management*, 22(8), 984-1001.  
17
- 18 Kumar, S., & Yamaoka, T. (2007). System dynamics study of the Japanese automotive industry  
19 closed loop supply chain. *Journal of Manufacturing Technology Management*, 18(2), 115-  
20 138.  
21
- 22 Lam, J. S. L., & Dai, J. (2015). Environmental sustainability of logistics service provider: an  
23 ANP-QFD approach. *The International Journal of Logistics Management*, 26(2), 313-333.  
24
- 25 Lambert, D. M. (Ed.). (2008). *Supply chain management: processes, partnerships, performance*.  
26 Supply Chain Management Inst.
- 27
- 28 Lamming, R., & Hampson, J. (1996). The environment as a supply chain management  
29 issue. *British journal of Management*, 7, S45-S62.  
30
- 31 Law, K. M., & Gunasekaran, A. (2012). Sustainability development in high-tech manufacturing  
32 firms in Hong Kong: Motivators and readiness. *International Journal of Production*  
33 *Economics*, 137(1), 116-125.  
34
- 35 Lee, H. L. (2010). Don't tweak your supply chain—rethink it end to end. *Harvard Business*  
36 *Review*, 88(10), 62-69.  
37
- 38 Linton, J. D., Klassen, R., & Jayaraman, V. (2007). Sustainable supply chains: an  
39 introduction. *Journal of Operations Management*, 25(6), 1075-1082.  
40
- 41 Liu, S., Kasturiratne, D., & Moizer, J. (2012). A hub and spoke model for multi-dimensional  
42 integration of green marketing and sustainable supply chain management. *Industrial*  
43 *Marketing Management*, 41, 581-588.  
44
- 45 Lobel, O. (2006). Sustainable capitalism or ethical transnationalism: Offshore production and  
46 economic development. *Journal of Asian Economics*, 17(1), 56-62.  
47
- 48 Luzzini, D., Brandon-Jones, E., Brandon-Jones, A., & Spina, G. (2015). From sustainability  
49 commitment to performance: The role of intra-and inter-firm collaborative capabilities in  
50 the upstream supply chain. *International Journal of Production Economics*, 165, 51-63.  
51
- 52 Maignan, I., & Mcalister, D. T. (2003). Socially responsible organizational buying: how can  
53 stakeholders dictate purchasing policies? *Journal of Macromarketing*, 23(2), 78-89.  
54
- 55 Mani, V., Agrawal, R., & Sharma, V. (2015). Supply chain social sustainability: A comparative  
56 case analysis in Indian manufacturing industries. *Procedia-Social and Behavioral*  
57 *Sciences*, 189, 234-251.  
58  
59  
60

- 1  
2  
3 Markman, G., & Krause, D. (2014). Special Topic Forum on Theory Building Surrounding  
4 Sustainable Supply Chain Management. *Journal of Supply Chain Management*, 50(3), i-  
5 ii.  
6
- 7 Markley, M., & Davis, L. (2007). Exploring competitive advantage through sustainable supply  
8 chains. *International Journal of Physical Distribution and Logistics*, 37(9), 763-774.  
9
- 10 Marshall, D., McCarthy, L., Heavey, C., & McGrath, P. (2015). Environmental and social supply  
11 chain management sustainability practices: construct development and  
12 measurement. *Production Planning & Control*, 26(8), 673-690.
- 13
- 14 Martínez-Jurado, P. J., & Moyano-Fuentes, J. (2014). Lean management, supply chain  
15 management and sustainability: a literature review. *Journal of Cleaner Production*, 85,  
16 134-150.
- 17
- 18 Matos, S., & Hall, J. (2007). Integrating sustainable development in the supply chain: the case  
19 of life cycle assessment in oil and gas and agricultural biotechnology. *Journal of*  
20 *Operations Management*, 25(6), 1083-1102.
- 21
- 22 McAfee, R. B., Glassman, M., & Honeycutt, E. D. (2002). The effects of culture and human  
23 resource management policies on supply chain management strategy. *Journal of*  
24 *Business Logistics*, 23(1), 1-18.
- 25
- 26 McCullen, P., & Towill, D. (2002). Diagnosis and reduction of bullwhip in supply chains. *Supply*  
27 *Chain Management: An International Journal*, 7(3), 164-179.
- 28
- 29 Mello, J. E., & Stank, T. P. (2005). Linking firm culture and orientation to supply chain  
30 success. *International Journal of Physical Distribution & Logistics Management*, 35(8),  
31 542-554.
- 32
- 33 Melnyk, S. A., Narasimhan, R., & DeCampos, A. (2014). Supply chain design: issues,  
34 challenges, frameworks and solutions. *International Journal of Production Research*,  
35 52(7), 1887-1896.
- 36
- 37 Mentzer, J. T., DeWitt, W., Keebler, J. S., Min, S., Nix, N., Smith, C. D., & Zacharia, Z. G.  
38 (2001). Defining supply chain management. *Journal of Business logistics*, 22(2), 1-25.
- 39
- 40 Miemczyk, J., Johnsen, T. E., & Macquet, M. (2012). Sustainable purchasing and supply  
41 management: a structured literature review of definitions and measures at the dyad,  
42 chain and network levels. *Supply Chain Management: An International Journal*, 17(5),  
43 478-496.
- 44
- 45 Min, H., & Galle, W. P. (1997). Green purchasing strategies: trends and  
46 implications. *International Journal of Purchasing and Materials Management*, 33(2), 10-  
47 17.
- 48
- 49 Min, H., & Galle, W. P. (2001). Green purchasing practices of US firms. *International Journal of*  
50 *Operations & Production Management*, 21(9), 1222-1238.
- 51
- 52 Mollenkopf, D., Stolze, H., Tate, L., & Ueltschy, M. (2010). Green, lean and global supply  
53 chains. *International Journal of Physical Distribution & Logistics Management*, 40(1/2),  
54 14-41.
- 55
- 56 Morali, O., & Searcy, C. (2010). Building sustainability into supply chain management: A  
57 research agenda. In *Proceedings of the 1st annual international symposium on green*  
58 *supply chains, Akron-Canton, OH, USA*.
- 59  
60



- 1  
2  
3  
4 Mota, B., Gomes, M. I., Carvalho, A., & Barbosa-Povoa, A. P. (2015). Towards supply chain  
5 sustainability: economic, environmental and social design and planning. *Journal of*  
6 *Cleaner Production*, 105, 14-27.  
7
- 8 Narasimhan, R., & Das, A. (2001). The impact of purchasing integration and practices on  
9 manufacturing performance. *Journal of Operations Management*, 19(5), 593-609.  
10
- 11 New, S., Green, K. and Morton, B. (2000). Buying the environment: the multiple meanings of  
12 green supply. In: Fineman, S. (Ed.), *The Business of Greening*, Routledge, London, 3-53.  
13
- 14 Nikolaou, I. E., Evangelinos, K. I., & Allan, S. (2013). A reverse logistics social responsibility  
15 evaluation framework based on the triple bottom line approach. *Journal of Cleaner*  
16 *Production*, 56, 173-184.  
17
- 18 Norman, W., & MacDonald, C. (2004). Getting to the bottom of "triple bottom line". *Business*  
19 *Ethics Quarterly*, 243-262.  
20
- 21 Ofori, G. (2000). Greening the construction supply chain in Singapore. *European Journal of*  
22 *Purchasing & Supply Management*, 6(3), 195-206.  
23
- 24 Oglethorpe, D., & Heron, G. (2010). Sensible operational choices for the climate change  
25 agenda. *The International Journal of Logistics Management*, 21(3), 538-557.  
26
- 27 Okongwu, U., Morimoto, R., & Lauras, M. (2013). The maturity of supply chain sustainability  
28 disclosure from a continuous improvement perspective. *International Journal of*  
29 *Productivity and Performance Management*, 62(8), 4-4.  
30
- 31 Orsato, R. J. (2006). When does it pay to be green? *California Management Review*, 48(2), 128.  
32
- 33 Ortas, E., Moneva, J. M., & Alvarez, I. (2014). Sustainable Supply Chain and Company  
34 Performance: A Global Examination. *Supply Chain Management: An International*  
35 *Journal*, 19(3), 9-9.  
36
- 37 Pagell, M., & Shevchenko, A. (2014). Why research in sustainable supply chain management  
38 should have no future. *Journal of Supply Chain Management*, 50(1), 44-55.  
39
- 40 Pagell, M., & Wu, Z. (2009). Building a more complete theory of sustainable supply chain  
41 management using case studies of 10 exemplars. *Journal of Supply Chain*  
42 *Management*, 45(2), 37-56.  
43
- 44 Paik, S. K., & Bagchi, P. K. (2007). Understanding the causes of the bullwhip effect in a supply  
45 chain. *International Journal of Retail & Distribution Management*, 35(4), 308-324.  
46
- 47 Park, J., Sarkis, J., & Wu, Z. (2010). Creating integrated business and environmental value  
48 within the context of China's circular economy and ecological modernization. *Journal of*  
49 *Cleaner Production*, 18(15), 1494-1501.  
50
- 51 Peters, N. J., Hofstetter, J. S., & Hoffmann, V., (2011). Institutional entrepreneurship  
52 capabilities for interorganizational sustainable supply chain strategies. *International*  
53 *Journal of Logistics Management*, 22(1), 52-86.  
54
- 55 Plambeck, E., Lee, H. L., & Yatsko, P. (2013). Improving environmental performance in your  
56 Chinese supply chain. *MIT Sloan Management Review*, 53(2), 43-51.  
57  
58  
59  
60

- 1  
2  
3 Porter, M. E., & Van der Linde, C. (1995). Green and competitive: ending the stalemate. *Reader*  
4 *in Business and the Environment*, 61.
- 5  
6 Preuss, L. (2007). Buying into our future: sustainability initiatives in local government  
7 procurement. *Business Strategy and the Environment*, 16(5), 354-365.
- 8  
9 Ramudhin, A., Chaabane, A., & Paquet, M. (2010). Carbon market sensitive sustainable supply  
10 chain network design. *International Journal of Management Science and Engineering*  
11 *Management*, 5(1), 30-38.
- 12  
13 Rao, P. & Holt, D. (2005). Do green supply chains lead to competitiveness and economic  
14 performance? *International Journal of Operations and Production Management*, 25(9),  
15 898-916.
- 16  
17 Reefke, H., & Trocchi, M. (2013). Balanced scorecard for sustainable supply chains: design and  
18 development guidelines. *International Journal of Productivity and Performance*  
19 *Management*, 62(8), 805-826.
- 20  
21 Reuter, C., Foerstl, K. A. I., Hartmann, E. V. I., & Blome, C. (2010). Sustainable global supplier  
22 management: the role of dynamic capabilities in achieving competitive  
23 advantage. *Journal of Supply Chain Management*, 46(2), 45-63.
- 24  
25 Roberts, S. (2003). Supply chain specific? Understanding the patchy success of ethical  
26 sourcing initiatives. *Journal of Business Ethics*, 44(2-3), 159-170.
- 27  
28 Roehrich, J. K., Grosvold, J., & Hoejmose, S. U. (2014). Reputational risks and sustainable  
29 supply chain management: Decision making under bounded rationality. *International*  
30 *Journal of Operations & Production Management*, 34(5), 695-719.
- 31  
32 Rosen, C. M., Beckman, S. L., and Bercovitz, J. (2002). The Role of Voluntary Industry  
33 Standards in Environmental Supply-Chain Management. *Journal of Industrial*  
34 *Ecology*, 6(3-4), 103-123.
- 35  
36 Rokka, J., & Uusitalo, L. (2008). Preference for green packaging in consumer product choices—  
37 do consumers care? *International Journal of Consumer Studies*, 32(5), 516-525.
- 38  
39 Ross, A. D., Parker, H., del Mar Benavides-Espinosa, M., & Droge, C. (2012). Sustainability and  
40 supply chain infrastructure development. *Management Decision*, 50(10), 1891-1910.
- 41  
42 Sarkis, J., Helms, M. M., & Hervani, A. A. (2010). Reverse logistics and social  
43 sustainability. *Corporate Social Responsibility and Environmental Management*, 17(6),  
44 337-354.
- 45  
46 Sarkis, J., Zhu, Q., & Lai, K., (2011). An organizational theoretic review of green supply chain  
47 management literature. *International Journal of Production Economics*, 130(1), 1-15.
- 48  
49 Saunders, M. N., Saunders, M., Lewis, P., & Thornhill, A. (2011). *Research methods for*  
50 *business students*, 5/e. Pearson Education India.
- 51  
52 Schaltegger, S., & Burritt, R. L. (2010). Sustainability accounting for companies: catchphrase  
53 or decision support for business leaders? *Journal of World Business*, 45(4), 375-384.
- 54  
55 Schaltegger, S., & Burritt, R. L. (2014). Measuring and Managing Sustainability Performance of  
56 Supply Chains. Review and Sustainability Supply Chain Management  
57 Framework. *Supply Chain Management: An International Journal*, 19(3), 2-2.
- 58  
59  
60

- 1  
2  
3  
4 Schrettle, S., Hinz, A., Scherrer-Rathje, M., & Friedli, T., (2014). Turning sustainability into action:  
5 Explaining firms' sustainability efforts and their impact on firm performance.  
6 *International Journal of Production Economics*, 147(A), 73-84.  
7
- 8 Seyfang, G. (2006). Ecological citizenship and sustainable consumption: Examining local  
9 organic food networks. *Journal of rural studies*, 22(4), 383-395.  
10
- 11 Seuring, S. A. (2008). Assessing the rigor of case study research in supply chain  
12 management. *Supply Chain Management: An International Journal*, 13(2), 128-137.  
13
- 14 Seuring, S., Sarkis, J., Müller, M., & Rao, P. (2008). Sustainability and supply chain  
15 management—an introduction to the special issue. *Journal of Cleaner Production*, 16(15),  
16 1545-1551.  
17
- 18 Seuring, S., & Muller, M. (2008). From a literature review to a conceptual framework for  
19 sustainable supply chain management. *Journal of Cleaner production*, 16(15), 1699-  
20 1710.  
21
- 22 Seuring, S. (2013). A review of modeling approaches for sustainable supply chain  
23 management. *Decision Support Systems*, 54(4), 1513-1520.  
24
- 25 Sharfman, M. P., Shaft, T. M., & Anex, R. P. (2009). The road to cooperative supply chain  
26 environmental management: trust and uncertainty among pro-active firms. *Business  
27 Strategy and the Environment*, 18(1), 1-13.  
28
- 29 Sharma, A., Iyer, G. R., Mehrotra, A., & Krishnan, R. (2010). Sustainability and business-to-  
30 business marketing: A framework and implications. *Industrial Marketing  
31 Management*, 39(2), 330-341.  
32
- 33 Sheu, J. B., Chou, Y-H., and Hu, C. C. (2005). An integrated logistics operational model for  
34 green-supply chain management. *Transportation Research Part E: Logistics and  
35 Transportation Review*, 41(4), 287-313.  
36
- 37 Sheu, J. B., and Chen, J. (2012). Impact of government financial intervention on competition  
38 among green supply chains. *International Journal of Production Economics*, 138(1), 201-  
39 213.  
40
- 41 Shi, V. G., Koh, S. L., Baldwin, J., & Cucchiella, F. (2012). Natural resource based green  
42 supply chain management. *Supply Chain Management: An International Journal*, 17(1),  
43 54-67.  
44
- 45 Shokri, A., Oglethorpe, D., & Nabhani, F. (2014). Evaluating sustainability in the UK fast food  
46 supply chain: Review of dimensions, awareness and practice. *Journal of Manufacturing  
47 Technology Management*, 25(8), 1224-1244.  
48
- 49 Siaminwe, L., Chinsebu, K. C., & Syakalima, M. (2005). Policy and operational constraints for  
50 the implementation of cleaner production in Zambia. *Journal of Cleaner  
51 Production*, 13(10), 1037-1047.  
52
- 53 Sigala, M. (2008). A supply chain management approach for investigating the role of tour  
54 operators on sustainable tourism: the case of TUI. *Journal of Cleaner Production*, 16(15),  
55 1589-1599.  
56  
57  
58  
59  
60

- 1  
2  
3 Silvestre, B. S. (2015). Sustainable Supply Chain Management in Emerging Economies:  
4 Environmental Turbulence, Institutional Voids and Sustainability  
5 Trajectories. *International Journal of Production Economics*, 167,156-169.  
6
- 7 Simoes, M., Carvalho, A., Lucas de Freitas, C., & Barbosa-Povoa, A. (2014). How to assess  
8 social aspects in supply chains? *Computer Aided Chemical Engineering*, 34,801-806.  
9
- 10 Singh, A., Singh, B., & Dhingra, A. K. (2012). Drivers and barriers of green manufacturing  
11 practices: a survey of Indian industries. *International Journal of Engineering  
12 Sciences*, 12(1), 5-19.  
13
- 14 Smith, B. G. (2008). Developing sustainable food supply chains. *Philosophical Transactions of  
15 the Royal Society B: Biological Sciences*, 363(1492), 849-861.  
16
- 17 Soosay, C., Fearne, A., & Dent, B. (2012). Sustainable value chain analysis—a case study of  
18 Oxford Landing from “vine to dine”. *Supply Chain Management: An International  
19 Journal*, 17(1), 68-77.  
20
- 21 Spekman, R. E., Kamauff Jr, J. & Myhr, N. (1998). An empirical investigation into supply chain  
22 management: a perspective on partnerships. *Supply Chain Management: An International  
23 Journal*, 3(2), 53-67.  
24
- 25 Spence, L., & Bourlakis, M. (2009). The evolution from corporate social responsibility to supply  
26 chain responsibility: the case of Waitrose. *Supply Chain Management: An International  
27 Journal*, 14(4), 291-302.  
28
- 29 Sutton, R. I., & Staw, B. M. (1995). What theory is not. *Administrative Science Quarterly*, 40(3),  
30 371-384.  
31
- 32 Svensson, G. (2007). Aspects of sustainable supply chain management (SSCM): conceptual  
33 framework and empirical example. *Supply Chain Management: An international  
34 Journal*, 12(4), 262-266.  
35
- 36 Tachizawa, M. E., & Yew Wong, C. (2014). Towards a theory of multi-tier sustainable supply  
37 chains: A systematic literature review. *Supply Chain Management: An International  
38 Journal*, 19(5/6), 643-663.  
39
- 40 Taylor, A., & Taylor, M. (2009). Operations management research: contemporary themes,  
41 trends and potential future directions. *International Journal of Operations & Production  
42 Management* 29(12), 1316-1340.  
43
- 44 Taticchi, P., Tonelli, F., & Pasqualino, R. (2013). Performance measurement of sustainable  
45 supply chains: A literature review and a research agenda. *International Journal of  
46 Productivity and Performance Management*, 62(8), 782-804.  
47
- 48 Tencati, A., Russo, A., & Quaglia, V. (2010). Sustainability along the global supply chain: the  
49 case of Vietnam. *Social Responsibility Journal*, 6(1), 91-107.  
50
- 51 Testa, F. & Iraldo, F. (2010). Shadows and Lights of GSCM (Green Supply Chain Management):  
52 Determinants and Effects of these Practices Based on a Multinational Study. *Journal of  
53 Cleaner Production*, 18 (10/11): 953-962.  
54
- 55 Teuscher, P., Grüniger, B., & Ferdinand, N. (2006). Risk management in sustainable supply  
56 chain management (SSCM): lessons learnt from the case of GMO - free  
57 soybeans. *Corporate Social Responsibility and Environmental Management*, 13(1), 1-10.  
58  
59  
60

- 1  
2  
3  
4 Trowbridge, P. (2001). A case study of green supply-chain management at Advanced Micro  
5 Devices. *Greener Management International*, 2001(35), 121-135.  
6  
7 Tseng, S. C., & Hung, S. (2014). A strategic decision-making model considering the social costs  
8 of carbon dioxide emissions for sustainable supply chain management. *Journal of*  
9 *Environmental Management*, 133, 315-322.  
10  
11 Tsoulfas, G. T., & Pappis, C. P. (2006). Environmental principles applicable to supply chains  
12 design and operation. *Journal of Cleaner Production*, 14(18), 1593-1602.  
13  
14 Tsoulfas, G. T., & Pappis, C. P. (2008). A model for supply chains environmental performance  
15 analysis and decision making. *Journal of Cleaner Production*, 16(15), 1647-1657.  
16  
17 Turker, D., & Altuntas, C. (2014). Sustainable supply chain management in the fast fashion  
18 industry: An analysis of corporate reports. *European Management Journal*, 32(5), 837-  
19 849.  
20  
21 Vachon, S. & R.D. Klassen. (2006). Green Project Partnership in the Supply Chain: The Case of  
22 the Package Printing Industry. *Journal of Cleaner Production* 14 (6/7): 661-671.  
23  
24 Vachon, S., & Klassen, R. D. (2008). Environmental management and manufacturing  
25 performance: the role of collaboration in the supply chain. *International Journal of*  
26 *Production Economics*, 111(2), 299-315.  
27  
28 Vachon, S., & Mao, Z. (2008). Linking supply chain strength to sustainable development: a  
29 country-level analysis. *Journal of Cleaner Production*, 16(15), 1552-1560.  
30  
31 Van Hoof, B., & Lyon, T. P. (2013). Cleaner production in small firms taking part in Mexico's  
32 Sustainable Supplier Program. *Journal of Cleaner Production*, 41, 270-282.  
33  
34 Varsei, M., Soosay, C. A., Fahimnia, B., & Sarkis, J. (2014). Framing sustainability  
35 performance of supply chains with multidimensional indicators. *Supply Chain*  
36 *Management: An International Journal*, 19(3), 3-3.  
37  
38 Vasileiou, K., & Morris, J. (2006). The sustainability of the supply chain for fresh potatoes in  
39 Britain. *Supply Chain Management: An International Journal*, 11(4), 317-327.  
40  
41 Verghese, K., & Lewis, H., (2007). Environmental innovation in industrial packaging: a supply  
42 chain approach. *International Journal of Production Research*, 45(18-19), 4381-4401.  
43  
44 Vijayan, G., Kamarulzaman, N. H., Mohamed, Z. A., & Abdullah, A. M. (2014). Sustainability in  
45 Food Retail Industry through Reverse Logistics. *International Journal of Supply Chain*  
46 *Management*, 3(2).  
47  
48 Vurro, C., Russo, A., & Perrini, F. (2009). Shaping sustainable value chains: Network  
49 determinants of supply chain governance models. *Journal of Business Ethics*, 90(4), 607-  
50 621.  
51  
52 Walker, H. L., & Jones, N. (2012). Sustainable supply chain management across the UK private  
53 sector. *Supply Chain Management: An International Journal*, 17(1), 15-28.  
54  
55 Walker, H., & Preuss, L. (2008). Fostering sustainability through sourcing from small  
56 businesses: public sector perspectives. *Journal of Cleaner Production*, 16(15), 1600-1609.  
57  
58  
59  
60



- 1  
2  
3 Walley, N., & Whitehead, B. (1994). It's not easy being green. *The Earthscan reader in business*  
4 *and the environment*, 36-44. Wiley
- 5  
6 Walton, S. V., Handfield, R. B., & Melnyk, S. A. (1998). The green supply chain: integrating  
7 suppliers into environmental management processes. *International Journal of Purchasing*  
8 *and Materials Management*, 34(1), 2-11.
- 9  
10 Wang, Z., & Sarkis, J. (2013). Investigating the relationship of sustainable supply chain  
11 management with corporate financial performance. *International Journal of Productivity*  
12 *and Performance Management*, 62(8), 871-888.
- 13  
14 Whetten, D. A. (1989). What constitutes a theoretical contribution? *Academy of Management*  
15 *Review*, 14(4), 490-495.
- 16  
17 Wiese, A., Kellner, J., Lietke, B., Toporowski, W., & Zielke, S. (2012). Sustainability in retailing–  
18 a summative content analysis. *International Journal of Retail & Distribution*  
19 *Management*, 40(4), 318-335.
- 20  
21 Winter, M., & Knemeyer, A. M. (2013). Exploring the integration of sustainability and supply  
22 chain management: Current state and opportunities for future inquiry. *International*  
23 *Journal of Physical Distribution & Logistics Management*, 43(1), 18-38.
- 24  
25 Wittstruck, D., & Teuteberg, F. (2012). Understanding the success factors of sustainable  
26 supply chain management: empirical evidence from the electrics and electronics  
27 industry. *Corporate Social Responsibility and Environmental Management*, 19(3), 141-  
28 158.
- 29  
30 Wolf, J. (2011). Sustainable supply chain management integration: A qualitative analysis of the  
31 German manufacturing industry. *Journal of Business Ethics*, 102 (2), 221-235.
- 32  
33 Wu, Z., & Pagell, M. (2011). Balancing priorities: Decision-making in sustainable supply chain  
34 management. *Journal of Operations Management*, 29(6), 577-590.
- 35  
36 Wu, G. C., Ding, J., & Chen, P. S. (2012). The effects of GSCM drivers and institutional  
37 pressures on GSCM practices in Taiwan's textile and apparel industry. *International*  
38 *Journal of Production Economics*, 135(2), 618-636.
- 39  
40 Xia, Y., & Tang, T. L-P. (2011). Sustainability in supply chain management: suggestions for the  
41 auto industry. *Management Decision*, 49(4), 495-512.
- 42  
43 Yu, V. F., & Tseng, L. C. (2014). Measuring social compliance performance in the global  
44 sustainable supply chain: an AHP approach. *Journal of Information and Optimization*  
45 *Sciences*, 35(1), 47-72.
- 46  
47 Yusuf, Y. Y., Gunasekaran, A., Musa, A., El-Berishy, N. M., Abubakar, T., & Ambursa, H. M.  
48 (2013). The UK oil and gas supply chains: An empirical analysis of adoption of  
49 sustainable measures and performance outcomes. *International Journal of Production*  
50 *Economics*, 146(2), 501-514.
- 51  
52 Zailani, S., Jeyaraman, K., Vengadasan, G., & Premkumar, R. (2012). Sustainable supply chain  
53 management (SSCM) in Malaysia: A survey. *International Journal of Production*  
54 *Economics*, 140(1), 330-340.
- 55  
56  
57  
58  
59  
60



- 1  
2  
3 Zhou, Z., Cheng, S., & Hua, B. (2000). Supply chain optimization of continuous process  
4 industries with sustainability considerations. *Computers & Chemical Engineering*, 24(2),  
5 1151-1158.  
6
- 7 Zhu, Q. & Sarkis, J. (2004). Relationships between operational practices and performance  
8 among early adopters of green supply chain management practices in Chinese  
9 manufacturing companies. *Journal of Operations Management*, 22(3), 265-289.  
10
- 11 Zhu, Q., & Cote, R. P. (2004). Integrating green supply chain management into an embryonic  
12 eco-industrial development: a case study of the Guitang Group. *Journal of Cleaner  
13 Production*, 12(8), 1025-1035.  
14
- 15 Zhu, Q., Sarkis, J. & Geng, Y., (2005). Green Supply Chain Management in China: Pressure,  
16 Practices and Performance. *International Journal of Operations and Production  
17 Management* 25(5) 449-468.  
18
- 19 Zhu, Q. & Sarkis, J. (2007). The Moderating Effects of Institutional Pressures on Emergent  
20 Green Supply Chain Practices and Performance. *International Journal of Production  
21 Research* 45 (18-19) 4333-55.  
22
- 23 Zhu, Q., Sarkis, J. & Lai, K., (2008). Confirmation of a measurement model for green supply  
24 chain management practices implementation. *International Journal of Production  
25 Economics*, 111(2), 261-273.  
26
- 27 Zhu, Q., Geng, Y., Fujita, T. & Hashimoto, S. (2010). Green supply chain management in  
28 leading manufacturers: case studies in Japanese large companies. *Management  
29 Research Review*, 33(4), 380-392.  
30
- 31 Zhu, Q., Geng, Y., & Lai, K., (2011). Environmental Supply Chain Cooperation and Its Effect on  
32 the Circular Economy Practice-Performance Relationship among Chinese  
33 Manufacturers. *Journal of Industrial Ecology*, 15(3), 405-419.  
34
- 35 Zhu, Q., J. Sarkis, & Lai, K., (2012). Examining the Effects of Green Supply Chain Management  
36 Practices and their Mediations on Performance Improvements. *International Journal of  
37 Production Research* 50 (5) 1377-94.  
38
- 39 Zhu, Q., Sarkis, J., & Lai, K. (2013). Institutional-based antecedents and performance  
40 outcomes of internal and external green supply chain management practices. *Journal of  
41 Purchasing and Supply Management*, 19(2), 106-117.  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
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