

# Sustainable Supply Chain Management: State- of- the-Art

Aicha Seklouli Sekhari, Sarker Rafij Ahmed Ratan, Mijanur Rahman, Abdel Aziz Bouras, Yacine Ouzrout

# ▶ To cite this version:

Aicha Seklouli Sekhari, Sarker Rafij Ahmed Ratan, Mijanur Rahman, Abdel Aziz Bouras, Yacine Ouzrout. Sustainable Supply Chain Management: State- of- the- Art. International Conference on Software, Knowledge, Information Management and Applications, Aug 2010, Paro, Bhutan. pp.CD-ROM. hal-00527386

HAL Id: hal-00527386

https://hal.science/hal-00527386

Submitted on 3 Nov 2010

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

# Sustainable Supply Chain Management: State- of- the- Art

Sarker Rafij Ahmed Ratan<sup>1</sup>, Aicha Sekhari<sup>1</sup>, Mijanur Rahman<sup>2</sup>, Abdel Aziz Bouras<sup>1</sup>, Yacine OUZROUT<sup>1</sup>

<sup>1</sup>University Lumiere Lyon 2, France

<sup>2</sup>University of Dhaka, Bangladesh

Abstract— Sustainability is a very vital issue which receives key attention in the media, press, journals, business and academic research arena. Most of the conversation and argument is ambiance the environmental impact that happened on the organizational supply chains. It is mostly regarding how to convert the traditional Supply chain management practices into Sustainable supply chain management (sSCM) system. In this paper we exert our effort to show a state of art regarding sustainable supply chain management. This research is a systematic literature and analyzed articles based study intended to provide an overview of multifaceted discussion of sSCM by different authors and establish a conceptual basis of this discipline.

**Keywords:** Supply Chain Management, Sustainability, Green Supply chain, Environmental, Economic and Social dimension.

#### I. INTRODUCTION

Sustainable supply chain management has emerged as a proactive approach for improving business processes and activities by social, economic and environmental aspect. All businesses rely on their supply base and customers to survive. Increasingly business peoples are being expected to know that their suppliers are as mindful of their environmental and social responsibilities as they are or should be. This is not always easy to do with local suppliers but it is even harder with suppliers from other countries. However being difficult to do is no excuse because if business body don't find out about their own supply chain, someone else might do it for them. These hard lessons have been learned by many companies and have prompted them to work towards sustainable supply chains.

There is a compelling business issue for companies to work with suppliers to jointly develop products and services which are commercially viable, preserve environmental resources and look after workforce and communities. However sustainable development starts at home and at the top. We need to start implementing it in our own organization before we can start reaching out to suppliers or customers.

The objective of this paper is to find out the state of the art of Sustainable Supply Chain Management and establish a conceptual ground regarding sSCM. It is one of the growing current phenomena to know the details of this field.

In each phase of the sustainable supply chain discipline is nourished by the three key elements like environmental, economic and social aspect.

#### II. RELATED WORKS

Until the early 1970s, most researchers coincide that supply chain management (SCM) is both an emerging field of practice and an academic domain [1].

With increase in environmental concerns during the past decade, a consensus is growing that environmental pollution issues accompanying industrial development should be address together with supply chain management, there by contributing to green supply chain management [2] [3].

Environmentally conscious supply chain management refers to the control exerted over all immediate and eventual environmental effects of products and processes associated with converting raw materials into final products [4].

During the 1990s, a fresh posture regarding the relationship among supply chain management, social responsibility and environmental consciousness began to "catch on". Companies embraced the importance of working collaboratively with their supply chain partners to improve social responsibility performance [5].

Sustainable supply chain management is the strategic achievement and integration of an organization's social, environmental, and economic goals through the systematic coordination of key inter-organizational business processes to improve the long-term economic performance of the individual company and its value network [6].

Scope of Sustainable supply chain management is defined from the idea of triple-bottom line "environmental, social, economic dimension". Carter and Rogers also has taken the same things to show a house of sustainable supply chain management [6] [7]. House of Sustainable supply chain is like following -

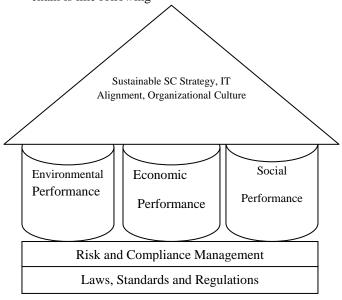


Fig1: House of sSCM

Researcher Marisa P. et al. [8] Opines that it is still not mainstream practice to systematically take a sustainability approach in tackling supply chain and operations management issues. They conclude through abductive reasoning that the reasons for procrastinating integration of sustainability in supply chain and operations management research are the conflicting nature of the task and the inherent context, which is the focus on operations rather than environmental or social issues.

# III. METHODOLOGY OF THIS WORK

For this paper we follow the Systematic Literature and Analyzed Articles approach. Considering the increasing number of books, journals, conferences and work-shops, the systematic literature review has become an indispensible method [9] [10]. In systematic literature review pertinent work and resent findings are analyzed with regard to a particular research question.

The ultimate goal of this study is to find out the state of art sustainable supply chain management. Various sources are supporting this issue by different way. So we have exerted our effort to gather important aspect of sSCM and articulate those aspects for making conceptual understanding. Following steps are followed for research perspective.

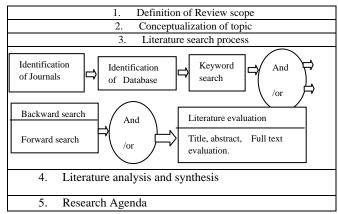


Fig2: Research Process supported from vom Brocke et al. [11], Webster and Watson [12], Frank Teuteberg and David Wittstruck [9])

Definition of review and conceptualization of this topic are shown in through 'pros and cons of sustainability' and 'conceptualization of sSCM'. We tried to collect literature in a systematic manner which mentioned in above figure. Sometimes identified the journals and locating database as a first steps. Prominent online sources are used in this regard. Some key words also used here for searching relevant journal papers like "Sustainable Supply chain", "Sustainability", "sSCM", "Supply chain", "Corporate Social Responsibility(CSR) and Sustainability", " Green Supply Chain" etc. After that we tried to analysis and synthesis the collecting resources. Following table shows the main theme of sustainability of supply chain emphasized by selected authors:

Table 1: Main suggested themes of sSCM field by selected authors

Main suggested theme of sSCM	Representative
field	references
A validated framework of sSCM	Carter C, Rogers DS
is developed and proposition of	[6]: International
sSCM are outlined. In addition,	Journal of Physical
relevant literature on sSCM is	Distribution and
proposed.	Logistics
	Management.
A comprehensive view of	Srivastava SK [13]:
published literature on aspects	International Journal
and facts of Green SCM.	of Management
	Reviews.
The objectives of this paper are	Seuring M, Muller S
to present a literature review on	[14]:Business
sustainable supply chain	strategy and the

management and provide a	Environment
conceptual frame work of	
research.	
SCM is both an emerging field	Burgess, Singh and
of practice and an academic	Koroglu, [1].
domain	
Environmental pollution issues	Sheu et al.[16]; Hsu,
accompanying industrial	C. W.; Hu, A. H [2].
development should be address	
together for ensuring green	
supply chain management.	
Establishing environmental	Lamming and
requirements for purchasing	Hampson,[15]:
items.	British Journal of
items.	Management.
More focused on green	-
More focused on green purchasing for SCM	Yuang and Kielkiewicz-
purchasing for SCM	
	Yuang[16], Rao[17],
The data and the second	Zhu et al. [18].
Establish an environmental risk	Bowen et al. [19].
management system for Green	
supply chain management	
Environmental, social and	Elkington [7];
economic dimension built a	Carter and Rogers [6]
house of sustainability of supply	
chain management.	
Sustainability is meeting the	United Nations.
needs of the present without	Brundtland
compromising the ability of	Commission: [20]
future generations to meet their	
own needs"	
Arraigning main activities of	Borade, A, Bonsad
supply chains; exploring the	SV [21]
domain of supply chain	
management.	
Environmental ethics for	Beamon, Benita M
sustainable supply chain	[4]
management.	_
SC network configuration for	Beamon, Benita M.
Product recovery	and Farnandes [22]
In this research, an integrated	Sabri, Ehap H. and
multi-objective supply chain	Benita M. Beamon
(SC) model is	[23]
Developed for use in	[
simultaneous strategic and	
operational SC planning.	
This paper describes the	Beamon, Benita M.
challenges and the	[24] Operations and
Opportunities facing the supply	Supply Chain
chain of the future and describe	Management: An
the various effects these issues	International Journal.
have on supply chain design,	
management, and integration,	
ultimate goal to establish	
sSCM·	
This paper is set out to examine	Simon Croom, et al.
how concern for environmental	[25]: European
impact is being incorporating	Operation European
impact to come incorporating	- Perunon

into the strategic and operational	Management
management of the	Association
supply chains	(EurOMA)
	Conference.

Currently Sustainability and sustainable supply chain management is a vital agenda for every business executives for starting their discussion. Sustainability itself creates a new era of business thinking and sources of competitive advantage. Previously SCM activities consider as the behind or back office function to manage somehow. But right now it is one of the major thinking parts of business. Different literature shows the evidence of its importance and emphasizing points also divers as like environmental issue, economic consideration, health footprint, global warming, waste recycling, social perspectives, green awareness of customer, supply chain network and configuration, simultaneous operation and SC strategy etc. Some times legislation and legal perspectives also are taken into account for proper sustainability of supply chain management activities. Form the flavor from different papers regarding Sustainable supply chain management, we get a new clue or research agenda that, this field required further study for showing the state- of-the- art of sSCM.

### IV. SUSTAINABILITY: PROS AND CONS OF THIS ISSUE

Sustainability is like an iceberg. Most of us know something about it, but there are many aspects hidden beneath the surface. Issues such as acid rain, deforestation, species extinction, third world poverty, and climate change have captured public attention and shown the relationship between social well-being, environmental stewardship and economic activity [26].

Sustainability refers to an integration of social, environmental and economic issues [6]. Shrivastava defines sustainability as "the potential for reducing long-term risks associated with resource depletion, fluctuations in energy costs, product liabilities, and pollution and waste management" [13].

Sustainability has become a wide-ranging term that can be applied to almost every facet of life on earth, from local to a global scale and over various time periods. This burning issue is still indicating us how to live our life in this world, how to do our business, how to make our product, how to recycle the used materials. As we have the commitment to the future generation. For all aspect, human being should ensure the issue of sustainable

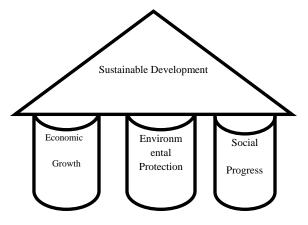
development. The well accepted definition is given by UN Brundtland Commission in 1987, "Meeting the needs of the present without compromising the ability of future generations to meet their own needs" [20]. We can also credit the Brundtland Commission for defining sustainable development which states – "The management of the human use of the biosphere so that it may yield the greatest sustainable benefit to present generations while maintaining the potential to meet the needs and aspirations of future generations" [27].

Sustainability is based on obligations toward future generations and presupposes intergenerational equity. Most ethicists would agree to define sustainability as the following way: Sustainability means that present and future persons have the same right to find, on the average equal opportunities for realizing their concepts of a good human life [28].

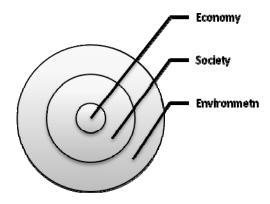
The core of mainstream sustainability thinking has become the idea of three dimensions, environmental, social and economic sustainability. These have been drawn in a variety of ways, as 'pillars', as concentric circles, or as interlocking circles [29].

### A. Pillars

# Three Pillars of Sustainable Development



B. Concentric circles



## B. Overlapping Circles

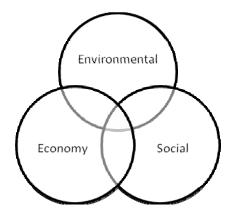


Figure 3. Three Visual Representations of Sustainable Development: Pillars, Circles, Interlocking Circles

Sustainability has presented the business community with huge challenges, and therefore, huge opportunities. This issue simultaneously will generate good and bad effect for the business bodies. Among the business firms, those who are smart enough to manipulate the benefits; will be the pioneer firms for future. Companies which are able to address those challenges properly will exist in future and those are not will extinct soon.

# V. SUSTAINABLE SUPPLY CHAIN MANAGEMENT: CONCEPTUALIZATION OF THIS TOPIC

There are numerous definitions of the terms 'Sustainable' and 'Supply chain'. More simplified and practical oriented definition is added by New Zealand Business council for Sustainable Development, "Management of raw materials and services from suppliers to manufacturer/service provider to customer and back with improvement of the social and environmental impacts explicitly considered."The supply chain considers the interactions between a business and its customers and suppliers [30]. Harland defines supply chain management as "the management of a network of interconnected business involved in the ultimate provision of product and service packages required by end customers" [31].

The concept of supply chain management can be extended by adding sustainability. Sustainable supply chain management integrating environment thinking into supply chain management, including product design, material sourcing and selection, manufacturing processes, delivery of the final product to the consumers, and end-of-life management of the product after its useful life. Besides the environmental issues, there are two other vital part of

sSCM are exists, for instances economic aspect and social aspect which are directly involved with the sustaining of organization in the competitive market.

Some times green issues are replicated with the Sustainability of supply chain management. Many studies addressed product lifecycle along with supply chain or Green Supply Chain Management, for example, Stonebraker & Liao [32] discussed that the stage of lifecycle variables is associated with the various dimensions of supply chain integration. In each stages of product life cycle, there are certain ups and downs are happened. Sometimes production process emitted toxic things which are deadly harmful to the society. That's why reuse and recycling of different materials are referred. Several papers provided green practices such as Duber-Smith [33]. He suggested some practices for ensuring sustainability and green perspectives of society, including reducing energy consumption, recycle and reuse, using biodegradable and non-toxic materials, minimize harmful emissions, and minimize or eliminate waste.

Sustainable Supply chain is a term that refers to a variety of approaches for the management of natural and human resources from the supplier to the manufacturers/ service provider to the consumer and back.

Sustainable supply chain management has its roots in supply chain management, i.e. it is based on the adoption and extension of its concepts [9].

Paul Hawken's book [34], The Ecology of Commerce, states paradoxically regarding the issue of sustainability, that although businesses of the industrial age contributed to the current state of affairs, business is the only means to implement the changes required in a "restorative economy." Hawken sees sustainability as a must, as we are exceeding the resource capacity of the planet.

### A. Findings and Analysis of the study:

No system is sustainable unless it accommodates the environmental, economic, social and health footprint aspects. Ultimately the system should be friendly to the ecosystem on which it depends. Our current sSCM is based on the notion of perpetual triangular perspective like economic environmental and social perspectives. Currently business bodies need to apply sustainability concept for adapting on going business demand from ultimate consumer. From the huge literature support and different studies, we found that it is everlasting phenomena and going for making the world green and sustainable. It is possible to define the sustainability of supply chain

management in the way of -"A environmental, economic and social perspective to carry out proper inbound and outbound supply system including raw materials to ultimate consumer and recycling the waste materials for making the world green and sustainable." This aspect can be shown by following proposed diagram:

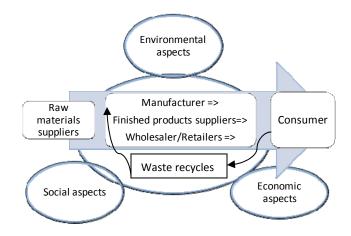


Fig 4: Sustainable supply chain management system

Environmental, social and economic aspect provides the influence over the whole supply chain system. The existing supply chain system started with raw material suppliers and with raw materials manufacturer produces finished products on the basis of customer demand. Finally produced finished goods with the help of wholesalers and retailers it reached to the ultimate consumers. If it is required then some goods again send to the manufacturer after use of consumer as a recycle item. The ultimate goal of the sSCM system is to ensure the overall indicators of the environmental, economic and social aspects in the supply chain system. It is the responsibility of all business people to do their business with obliging all environmental issues. Not to do any activities that's destroying natural system. Environmental sustainability aspects is covering natural resources endowments, past and present pollution levels, environmental management efforts, contribution to protection of the global commons and society's capacity to improve its environmental performance over time. All aspects play the vital role over the sustainability issues in supply chain system. Social well being should be ensured by concern bodies. Social sustainability encompasses the human rights, labor rights and corporate governance. Social sustainability is the idea that future generations should have the same or greater access of social resources as the current generations. Social sustainability is one of the cultural perspectives which are as broad as environmental, cultural aspects. All the social issues like community, diversity, employee relations, human rights,

product safety, reporting, governance structure, supplier's security, consumer rights etc. are the main indicator of social sustainability. And mentioning issues should be ensured for proper sustainability of supply chain management system. Generally *economic perspective* of business indicates that good cash flow, proper return on investment (ROI), good profit margin, ultimate consumer satisfaction, enhancing sales etc. But business bodies should not concern about their own benefit only, but they have to concern about whole economic system and its sustainability as well. Sometimes triangular view should be considered like profit, planet and people. Ultimately to do business for ensuring people satisfaction and business profit. It is certainly not through destroying the planet where we live.

# B. Potential benefit for sustainable supply chain management

Social responsibility, good environmental and economic performances are not just about the activities that the business firms should carry out within the factory walls. As sustainability demand rose from ultimate consumer, so it is act as a source of different potential benefits and competitive advantages.

There are some potential benefits will rise easily from sustainability of supply chain management field:

- Increased productivity through greater efficiency and higher quality,
- Opportunity for innovation and competitive advantage,
- Risk minimization.
- Protection and enhancement of a company's brand reputation,
- Advantages of considering international agendas and joining sustainability indexes

From the marketing perspective of sustainability, there are boundless opportunities to include social responsibility and be financially successful. The Canadian Business for Social Responsibility includes bottom-line benefits having [35]:

- Reduced operating costs
- Enhanced brand and image reputation
- Increased sales and customer loyalty
- Increased ability to attract and retain employees

Publicity and increased public image from good works

### VI. CONCLUSION

In recent years the sustainable supply chain management (sSCM) has received increasing attention and has become a progressively more popular field of academic and research area. Nowadays business bodies must handle manifold challenges like rapid climate change, growing public interest in green perspective of business (Green Supply Chain Management, Green computing, logistics etc.) and ensuring environmental sustainability. Some legislation also imposed by the concern body like European Union, For instances, EU law for saving environment- Restriction of Hazardous Substance (RoHS), Waste Electrical and Electronic Equipment (WEEE) Eco-design for Energy using products (EuP) etc. It is one of the precise demands of time to make every thing on the basis of environmental issue. The sustainable matters are always fit for the environment. So by this paper we tried to address this sustainability issue in the field of supply chain management and showing the way of articulation for different perspectives. And as a secondary goal we also tried to establish a good conceptual basis of this discipline.

#### ACKNOWLEDGMENT

Authors acknowledge the logistics support and assistance of Laboratory CERRAL, IUT, University Lumiere Lyon 2, and France.

#### REFERENCES

- [1] Burgess, K., P.J. Singh and R. Koroglu (2006)." Supply chain management: a structural literature review and implications for future research." International Journal of Operations & Production Management.p.703-729.
- [2] Sheu, J.B.; Chou, Y. H.; Hu, C.C., Z(2005): An integrated logistics operational model for green-supply chain management. Trans. Res., 41(4), 287-313.
- [3] Hsu, C. W.; Hu, A. H., (2007). Green supply chain management in the electronic industry. Int. J. Environ. Sci. Tec., 5(2), 205-216.
- [4] Beamon, Benita M. (2005). "Environmental and Sustainability Ethics in Supply Chain Management", Science and Engineering Ethics, Vol. 11, No. 2, pp. 221-234
- [5] Nalebuff and Brandenburger, (1996): Coopetition: a revolutionary mindset that combines competition and cooperation in the market place. New York, NY: Doubleday Press.
- [6] Carter C and Rogers DS (2008). A framework of sustainable supply chain management: moving toward new theory. International Journal of Physical Distribution & Logistics Management 38 (5): 360-387.
- [7] Elkington J (2004) Enter the triple bottom line. In: Henriques A, Richardson J (Eds) The Tripple Bottom Line: Does It All Add up? Earthscan, London
- [8] Marisa P. de Brito and Erwin A. van der Laan (2010): Supply Chain Management and Sustainability: Procrastinating Integration in Mainstream Research. Sustainability (2), 859-870, open source: www.mdpi.com/journal/sustainability

- [9] Frank Teuteberg and David Wittstruck, 2010: A Systematic Review of Sustainable Supply Chain Management Research – What is there and what is missing? (MKWI2010- Betriebliches Umwelt – and Nachhaltigkeitsmanagement, p 1001-1015. Source: <a href="http://webdoc.sub.gwdg.de/univerlag/2010/mkwi/03">http://webdoc.sub.gwdg.de/univerlag/2010/mkwi/03</a> anwendungen/betriebliches umweltund nachhaltigkeitsmanagement/01 a systematic review of sscm.pdf . Access date: 01-04-2010.
- [10] Fettke P(2006) State-of-the-Art des State-of-the-Art- Eine Untersuchung der Forchungsmethode "Feview" innerhalb der Wirtschaftsinformatik. Wirtschaftsinformatik 48(4):257-266
- [11] Vom Brocke J, Simons A, Niehaves B, Riemer K, Plattfaut R, Cleven A (2009) Reconstructing the giant: on the importance of rigour in documenting the literature search process. In: Newell P, Whitley E, Pouloudi N, Wareham J, Mathiassen L (Eds.) Information systems in a globalising world: challenges, ethics, and practices, Proceedings of the 17th European Conference on Information Systems, Verona.
- [12] Webster J, Watson R (2002): Analyzing the past to prepare for the future: writing a literature review. Management information system Quarterly 26(2):13-23
- [13] Shrivastava SK (2007): Green- supply management: a state-of-art literature review. International Journal of Management Reviews 9 (1): 53-80
- [14] Seuring M, Muller S (2008), Core issue in sustainable supply chain management- a Delphi study. Business strategy and the Environment 17(8): 455-466
- [15] Lamming, R and Hampson, J. (1996): The environment as supply chain management issue. British Journal of Management, 7 (special issue 1):45-62
- [16] Yuang, A.; Keilkiewicz-Yuang, A., (2001): Sustainable supply network management. Corp. Environ. Manage. 8(3), 260-268.
- [17] Rao, P, (2002): Greening the supply chain a new initiative in South East Asia, Int. J. Oper. Prod. Manage. 22(6), 632-655.
- [18] Zhu, O.; Sarkis, J.; Geng, Y., (2005): Green supply chain management in china: Pressures, Practices and performance. Int. J. Oper. Prod. Manage. 25(5) 449-468.
- [19] Bowen, F. E.; Cousine, P. D.; Lamming, R. C.; Faruk, A. C.,(2001): Explaining the gap between the theory and practice of green supply. Greener Manage. Int., 35, 41-59.
- [20] United Nations. 1987: "Report of the World Commission on Environment and Development." General Assembly Resolution 42/187, 11 December 1987. Access date: 06-05-2010.
- [21] Borade A, Bonsad SV (2008): The discipline of supply chain management- A systematic literature review. The Icfai Journal of Supply chain Management 5(1): 7-26
- [22] Beamon, Benita M. and Fernandez, (2004): Supply-Chain network Configuration for product Recovery. *Product planning and control*, Vol.15, No.3, p-270-281.
- [23] Sabri, Ehap H. and Benita M. Beamon (2000). "A Multi-Objective Approach to Simultaneous Strategic and Operational Planning in Supply Chain Design", *OMEGA*, Vol. 28, No. 5, pp. 581-598.
- [24] Beamon, Benita M. (2008). "Sustainability and the Future of Supply Chain Management", Operations and Supply Chain Management: An International Journal, Vol. 1, No. 1, pp. 4-18.
- [25] Simon Croom, Sam Barani, Dan Belanger, Tim Lyons, Jaime Murakami (2009): Sustainable supply chain management – an exploration of Current practice. Presented at European Operation Management Association (EurOMA) Conference, June, 2009.
- [26] Rohm and Haas industry Report, 2007: "Long term vision for sustainability-2008 and beyond." Source: <a href="http://www.rohmhaas.com/SDreport/long-term-vision-for-sustainability.asp">http://www.rohmhaas.com/SDreport/long-term-vision-for-sustainability.asp</a>). Access date: 06-04-2010.
- [27] Larry Berglund, 2005: Sustainable Supply Chain Management Practices: What In The World Is Going On? Source: [http://larryberglund.wordpress.com/2009/11/07/sustainable-supply-chain-management-practices-what-in-the-world-is-going-on. Access date: 10-04-2010.
- [28] Konrad Ott, (1995): Advocated the "The Case for Strong Sustainability." Source: http://umwethik.botanik.uni-greifswald.de/booklet/8\_strong\_sustainability.pdf. Access date: 15-02-2010
- [29] Adams, W.M. (2006). "The Future of Sustainability: Re-thinking Environment and Development in the Twenty-first Century." Report of the IUCN Renowned Thinkers Meeting, 29–31 January 2006.

- [30] New Zealand Business council for sustainable development (2003): Business guide to a Sustainable Supply Chain, p-8, source: <a href="http://www.nzbcsd.org.nz/supplychain/">http://www.nzbcsd.org.nz/supplychain/</a>. Access date: 08-04-2010
- [31] Harland CM (1996). Supply Chain Management: relationships, chains and networks. British Journal of Management 7(1), p. 63-80.
- [32] Stonebraker, P. W., & Liao, J. (2006): Supply Chain Integration: Exploring Product and Environmental Coningencies. Supply Chain Management, 11 (1), 34-43.
- [33] Duber-Smith, D. C. (August, 2005): The Green Imperative. Soap, Perfumery, and Cosmetics, 78 (8), pp. 24-26.
- [34] Paul Hawken (1993): The Ecology of Commerce: A Declaration of Sustainability, New York, Harper Collins Publishers.
- [35] Industry Canada: An Overview of Corporate Social Responsibility. Source: <a href="http://www.ic.gc.ca/eic/site/csr-rse.nsf/eng/rs00129.html">http://www.ic.gc.ca/eic/site/csr-rse.nsf/eng/rs00129.html</a>: Access date: 10-04-2010.