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**Environmental Analysis of Transportation Systems Green Logistics and Transportation Factors Affecting Transportation Logistics Environmental Supply Chain Management** *Strategic Environmental Assessment for Transport Environmental Issues in Supply Chain Management Sustainable Logistics Green Logistics Global Perspectives on Green Business Administration and Sustainable Supply Chain Management* **Information Systems and the Environment EcoProduction and Logistics Assessment and Decision Making for Sustainable Transport Logistics Operations, Supply Chain Management and Sustainability Sustainable Operations and Supply Chain Management** *Efficiency in Sustainable Supply Chain Sustainable Transport* Consideration of Environmental Factors in Transportation Systems Planning Handbook on Applying Environmental Benchmarking in Freight Transportation **Green Supply Chain Management: Product Life Cycle Approach Sustainable Reverse Logistics Network** Green Supply Chain Management **The Environment and Transport** Strategic Environmental Assessment in Transport and Land Use Planning **Design for Environment as a Tool for the Development of a Sustainable Supply Chain** Social and Environmental Dimensions of Organizations and Supply Chains **Logistics Social Responsibility and Dynamic Capabilities: Conceptualization and Empirical Analysis** Green Supply Chain Management **Greening the Supply Chain Sustainable Production and Logistics** *Management model for social and environmental impact in logistics through blockchain technologies Supply Chains in Reverse Logistics Innovative Logistics Services and Sustainable Lifestyles* Sustainable Urban Logistics **Supply Chain and Logistics in National, International and Governmental Environment** Markets, Business and Sustainability Environmental External Costs of Transport Environmental Sustainability in Asian Logistics and Supply Chains **Sustainable Value Chain Management Meta-Analysis in Environmental Economics** Methods and Policies to Reduce Carbon Dioxide Emission in Logistics

Methods and Policies to Reduce Carbon Dioxide Emission in Logistics Feb 04 2021 Master's Thesis from the year 2021 in the subject Business economics - Supply, Production, Logistics, grade: 2.6, University of Applied Sciences Berlin, course: MBA&E Global Procurement, language: English, abstract: The report is focused on carbon dioxide emissions in the logistics industry. It evaluates some segments of the logistics industry that how carbon dioxide emission is takes place in the logistics operations. Global warming and climate control elements are turning into a genuine worldwide concern. The enactment is turning into a fundamental plan to control the measure of carbon dioxide discharge that may impact the entire world in upcoming years. To figure out this issue, the research is conducted to investigate the methods and policies which support the logistics operation to lessen or control the carbon dioxide emission. The report has some insight that how various logistics factors are responsible to influence the level of carbon dioxide. Furthermore, various opportunities to reduce transportation as well as warehouse-related carbon dioxide emission are identified. With the analysis of different industries, the most promising and feasible methods for logistics operations are determined such as increasing load factor, modal shift, alternative fuels, electric forklifts. In addition to this, analysis of environmental policies is also determined namely carbon emission trading, carbon tax. The impacts on organizations after applications of studied methods and policies have been also reviewed. The research outcome has an overall contribution to green logistics management.

**Information Systems and the Environment** Sep 06 2023 Information technology is a powerful tool for meeting environmental objectives and promoting sustainable development. This collection of papers by leaders in industry, government, and academia explores how information technology can improve environmental performance by individual firms, collaborations among firms, and collaborations among firms, government agencies, and academia. Information systems can also be used by nonprofit organizations and the government to inform the public about broad environmental issues and environmental conditions in their neighborhoods. Several papers address the challenges to information management posed by the explosive increase in information and knowledge about environmental issues and potential solutions, including determining what information is environmentally relevant and how it can be used in decision making. In addition, case studies are described and show how industry is using information systems to ensure sustainable development and meet environmental standards. The book also includes examples from the public sector showing how governments use information knowledge systems to disseminate "best practices" beyond big firms to small businesses, and from the world of the Internet showing how knowledge is shared among environmental advocates and the general public.

*Global Perspectives on Green Business Administration and Sustainable Supply Chain Management* Oct 07 2023 Heavy industrialization in the past few decades has caused several global environmental issues including poor air quality, climate change, and outdoor air pollution-related diseases. As such, consumer pressure coupled with strict governmental policies have influenced firms to adopt and implement green practices in their supply chain and business operations in order to improve socio-environmental sustainability. *Global Perspectives on Green Business Administration and Sustainable Supply Chain Management* is an essential reference book that discusses innovative green practices including recycling, remanufacturing, reduction in waste and adoption of renewable energy in manufacturing. It also examines environmentally friendly policies that have been adopted by many European and Western countries. Featuring coverage on a broad range of topics such as energy analysis, environmental protections, and logistics development, this book is ideally designed for managers, operations managers, executives, manufacturers, environmentalists, researchers, industry practitioners, academicians, and students.

Sustainable Urban Logistics Sep 13 2021 Urban logistics has been a subject of interest to researchers and practitioners for more than 20 years in France and Europe, and more than 40 in the United States. Nevertheless, the subject remains difficult to address by a lack of unification in the definitions and proposed methods but also by what makes its great richness: the diversity of actors and the pluridisciplinarity of the methods and techniques available. This book, which synthesizes more than 10 years of personal research on the subject, but also experience within different teams and projects, intends to bring a unified vision (and more and more followed at the international level) on logistics planning Urban development. It begins with an overview of research in urban logistics and then describes and defines the main components: flows, actors, infrastructures, management components, technologies, regulations and financing actions. A unified vision of these elements as well as the definition of sustainable urban logistics is proposed. Then, the book presents the basics of planning and managing sustainable urban logistics. First, the basics of the before-after analysis are introduced, not only for the experiments but also for the simulation of scenarios. To carry out this type of analysis, two main groups of methods are needed: methods for estimating flows and methods for calculating evaluation indicators. The book presents the main global standards and dominant models for the estimation of the urban freight transport demand, i.e. of freight transport needs in urban areas. Then it presents the methods for estimating and simulating transport and distribution schemes (i.e. transport supply) as well as a proposal for integrated supply-demand modeling. All these methods are presented for immediate application to practitioners, accompanied by summary tables and parameters necessary for their implementation. As far as evaluation is concerned, the book presents a framework for the choice of sustainable indicators and scorecards. Second, the main methods for economic, environmental, social and accessibility assessment are presented. They are accompanied by tables and figures necessary for their implementation. Finally, the main applications of the proposed methods are introduced. The book is meant to be a practical guide to applying the main methods from scientific research to a practical context, and presents examples of quantified and explained application. It is thus the first book that summarizes and presents the main unified methods to help the different decision-makers to implement them in their actions of planning and management of the urban logistics and the transport of goods in town.

*Supply Chains in Reverse Logistics* Nov 15 2021 Currently, it is obvious that new types of production (Industry 4.0) are accompanying new ways of distribution, which advance logistics, physical distribution science, and even supply chain management. The changing environment for carrying out logistics activities is also important for the development of the supply chain. Care for ecology, the recent pandemic, and the situation in Ukraine are other reasons to adapt logistics to the needs of an individual customer/recipient. It would be impossible without developing an appropriate strategy and applying appropriate tools for managing supply chains in the national and international

dimensions. This book specifically addresses these issues. When analyzing the needs and structure of modern supply chains, in the context of their safety and risk reduction, it is impossible to ignore the problem of digitization, which allows for logistic analysis of the company, determining optimal routes, designing logistic systems, optimizing storage processes and costs, and predicting possible threats (crisis situations) and their effects (losses). IT support, automatic data exchange, e-logistics, telematics, traceability, and chatbots between various departments of the company along the upper and lower parts of the supply chain improve the flow of material and accompanying information through automation, robotization, proactivity, and document digitization. These new trends make it possible to define logistics as modern logistics using new achievements of science and technology. Modern logistics must also consider ecological aspects in line with assumptions about protecting the environment and improving our climate. Efficiently organized reverse logistics is not without significance for ecology. It is supported by renewable energy, electric vehicles, proper education in the field of a closed economy, cleaner production, waste minimization, the use of passive infrastructure, and proper waste management that allows us to positively influence environmental protection and human health. To meet the needs of creating modern supply chains, the authors developed this powerful book in which they analyze and present current and future solutions that influence the development of these issues in modern reverse logistics.

**Greening the Supply Chain** Feb 16 2022 This book analyzes environmental supply chain management theory and practice, with contributions by a international experts. Coverage includes concepts and principles of green supply chain management; studies of practices and concerns in industries worldwide; tools for environmental supply chain design and development; and case studies of green supply chain practices. Professionals, policy makers, researchers and students will value this book for the insights it provides into a topic of growing concern.

**Green Logistics and Transportation** May 14 2024 This book identifies and furthers the state of the art in green logistics and transportation with a supply chain focus. It includes discussions on concerns and linkages across policy, corporate strategy and operations and inter-organizational relationships and practices. Separate sections are assigned to discuss issues related to greening of logistics and transportation functions, including green logistics network, green land transportation and green air and water transportation. Linking research with practice is another important feature of the book as various techniques and research methodologies are utilized to explain and analyze green logistics and transportation concepts and issues. The authors come from throughout the world from a variety of backgrounds (e.g. policy, technical, engineering, and management backgrounds) to provide solutions and insights from their regional and global perspectives to some of the world's most critical green logistics and transportation issues.

**Sustainable Reverse Logistics Network** Oct 27 2022 Traditional logistical chains have enabled us to respond efficiently to the needs of customers in terms of services and products. However, the returns, rejects and by-products of these activities have been eliminated or ignored. Reverse logistics aims at valuing these products using a value creation network integrating recovery, processing, recycling, distribution or clean removal processes. In the context of sustainable development, integrating economic, social and environmental factors, these activities raise questions concerning the design of products, processes and logistic networks. Taking these considerations into account involves significant changes that affect business models as well as consumer habits. New working methods and a long-term vision are the new bases for sustainable logistic networks. The objective of this book is to supply an educational tool for engineering schools, as well as a management tool for the efficient implementation of the reverse logistics function. It brings together the knowledge acquired by the scientific community. Even if reverse logistics has been the subject of several books over the past few years, very few theories have been developed and the subject is far from being exhausted. This book proposes generic concepts and processes that can be adapted to all businesses producing goods and services and which aim to integrate reverse logistics. These processes will enable us to shed light on their complexity and to take into account all the important variables. Contents 1. Logistics Challenge. 2. Reverse Logistics Engineering. 3. Ecodesign. 4. Value Loops.

**Meta-Analysis in Environmental Economics** Mar 08 2021 Meta-analysis is a formal synthesis of results and findings of scientific studies, which can assist in gaining new insights, explaining differences between results of similar studies, or determine useful directions of research. In this book we focus on the use of meta-analysis in environmental economics and related fields of study. The first part of the book covers the overall meta-approach methodology for social sciences and economics in particular. This is followed by technical and non-technical discussions of statistical and rough-set techniques for analysis. At appropriate places this is supplemented with reviews of applications in environmental economics and related fields. In the second part of the book a number of case studies show different aspects of the application of meta-analysis. The research areas considered include, among others, tourism multipliers, air pollution valuation, risk and value of life, pesticide price policy, travel time savings, and transport externality and policy issues. The benefits of the appropriate application of meta-analysis in environmental economics are a better use of existing information and knowledge, removal of some of the subjectivity from analysis and forecasting, and greater clarity as to where future efforts in environmental economic analysis can most gainfully be deployed.

**Design for Environment as a Tool for the Development of a Sustainable Supply Chain** Jun 22 2022 Environmental Design is becoming an increasingly significant agenda for many manufacturing companies and yet there is no standard to their approaches, strategies or their levels of execution. Applying Design for Environment (DfE) methodologies to develop a more sustainable supply chain has formed procedures and techniques which allow designers to integrate these methods with environmental supply chain management. Design for Environment as a Tool for the Development of a Sustainable Supply Chain aims to define relevant target specifications for a product throughout its life cycle; from conception and design to the end of its operating life. Be considering this new approach to the supply chain, environmental responsiveness can work in tandem with sounds business management. The usual focus on suppliers, manufacturers and customers is expanded in Design for Environment as a Tool for the Development of a Sustainable Supply Chain to include stakeholders such as government bodies and recycling companies. The influence of these additional groups is analyzed alongside concepts such as: Product life cycle development aimed at environmental impact minimization; Supplier selection and management based on environmental criteria; and Marketing and communication choices which increase the value of environmentally sensitive products. By including several case studies alongside theoretical topics, Design for Environment as a Tool for the Development of a Sustainable Supply Chains acts as a foundation for professionals across the supply chain, from industrial designers to marketing and sales departments, who are involved in environmental issues.

*Strategic Environmental Assessment for Transport* Feb 11 2024 This report examines recent experience in developing environmental assessment internationally and makes recommendations on maximising the effectiveness of this new tool.

**Logistics Social Responsibility and Dynamic Capabilities: Conceptualization and Empirical Analysis** Apr 20 2022 Logistics Social Responsibility (LSR) emerged as a concept to integrate sustainability throughout logistics-oriented processes in the supply chain. Hence, logistics services are linked to sustainability requirements. To meet these requirements, logistics service providers can respond to their responsibility by reducing the ecological and social impact in the supply chain. Moreover, it has been recognized that consumers also need to adapt to sustainability requirements: e.g., by supporting sustainable logistics strategies with their monetary “votes” or by changing their own consumption behavior. This “shared responsibility” requires mutual support and cooperation. Therefore, the core of this dissertation is that logistics service providers can further support sustainable development by facilitating more sustainable consumer choices. To enhance LSR activities, the link to the dynamic capabilities theory is investigated. Here, several capabilities have been identified through which managers can pool their knowledge and skills to generate new knowledge, solutions or resource configurations. Using these capabilities in a strategic manner, logistics service providers can purposefully change their business environment by forming new partnerships or changing existing relationships to gain from developing new business practices stressing sustainable purposes.

**Logistics Operations, Supply Chain Management and Sustainability** Jun 03 2023 The aim of this book is to present qualitative and qualitative aspects of logistics operations and supply chain management which help to implement the sustainable policy principles in the companies and public sector's institutions. Authors in individual chapters address the issues related to reverse network configuration, forward and reverse supply chain integration, CO2 reduction in transportation, improvement of the production operations and management of the recovery activities. Some best practices from different countries and industries are presented. This book will be valuable to both academics and practitioners wishing to deepen their knowledge in the field of logistics operations and management with regard to sustainability issues.

Social and Environmental Dimensions of Organizations and Supply Chains May 22 2022 This book focuses on environmental and social factors in international supply chains and industry networks. It explores whether socially-responsible and environmentally-conscious operations are complementary or conflictive to economic targets. The book elaborates on innovative approaches to manage the economic, ecological and social performance in supply

networks from different perspectives. In addition, it links sustainability to operational processes and illustrates specific application contexts. Moreover, it covers the social dimension of sustainability. The rise of sustainability in management forces enterprises to revisit the concept of profitability that drives their operations. Social standards and ecological targets represent critical factors that challenge industry networks. The interplay of these goals requires new insights from scientific research and managerial practice. New approaches and systems are needed to minimize environmental and social harms and to promote sustainability.

**EcoProduction and Logistics** Aug 05 2023 Environmental awareness is driven mainly by the scarcity of natural resources and by more strict legal regulations. The modern enterprise policy should look at the relations between economic actions and ecological consequences. Ecoproduction is a new business approach which focuses on the most efficient and productive use of raw materials and natural resources in order to minimize footprints on the natural environment. This book aims to provide the state-of-the-art as well as new ideas of the environmental conscious operations management. The contributors present in the individual chapters problems related to: eco-friendly production technologies; recycling and waste reduction. Scope of topics discussed in this book covers also pollution prevention, energy efficiency. The authors describe problems of information management in complex systems

**Environmental Supply Chain Management** Mar 12 2024

Markets, Business and Sustainability Jul 12 2021 Many studies on environmental and business sustainability have been conducted over the last couple of decades. These studies demonstrate that the concept of sustainability management can be applied to several industries. Consumers around the globe are increasingly interested in sustainable consumption and they turn their attention into sustainable products, thus, campaigning for banning companies and supply chains that do not operate under sustainable ethos. *Markets, Business and Sustainability* is a collection of selected reports that examine business sustainability, market sustainability and supply chain sustainability in a variety of contexts and using diverse methodologies. This reference work emphasizes the profound impact of sustainability management on markets and business. Readers are presented with critical analyses on different dimensions of sustainability. This book covers the applications of sustainable management techniques in construction, city logistics and the food industry. Sustainability management practitioners, consumers, as well as students and academics can enrich their understanding about the business dimension of sustainability and also find references of available literature on the subject. The information presented in this reference is also helpful to senior business leaders seeking to create a vision, mission and strategy for their companies in order to create sustainable value, and an organizational culture of sustainability.

**The Environment and Transport** Aug 25 2022 This reference offers information to practitioners and students in the field of environmental studies, by showing key articles on the subject over the years 1979 to 1999. Topics covered include pollution, the effects of traffic on the environment, and regional and national control development.

*Innovative Logistics Services and Sustainable Lifestyles* Oct 15 2021 This edited volume aims to describe the transformation of supply chain management (SCM) and logistics services by merging sustainable logistics, SCM, sustainable consumption and lifestyle research. This assessment of the transformation potential serves the development of sustainable business models and optimized decision-making systems for achieving sustainable economic value creation within a green economy. In 5 sections, the volume takes a unique transdisciplinary approach to assess sustainable business practices within SCM and the logistics sector, and to understand the interactions between logistics services and consumer lifestyles while creating transparency within the decision making process. This book will be of particular interest to academics, policymakers, planners, and politicians. Section 1 introduces readers to the importance of blended research and innovation between sustainable SCM and consumer lifestyles for transformation towards a green economy. Section 2 addresses the question of how trends and developments in consumption behavior and lifestyles influence the development of sustainable logistics. Section 3 discusses the transformation potential towards sustainable logistics using the food sector as an example. Section 4 focuses on strategic decision making in SCM, and how long-term improvements of sustainability performance can be achieved. Section 5 concludes with policy recommendations as well as research and innovation perspectives for future sustainable development with SCM and logistics.

**Sustainable Value Chain Management** Apr 08 2021 The way organizations manage their value chain has changed dramatically over the past decade. Today, organizations take account of economic issues, but they also adopt a broader perspective of their purpose including social and environmental issues. Yet despite its global spread, sustainable value chain management remains an uncertain and poorly defined ambition, with few absolutes. The social and environmental issues that organizations should address can easily be interpreted as including virtually everything. Current literature on the topic seeks to understand the effects and management of initiatives dealing with diversity, human rights, safety, philanthropy, community, and environment. However, the penetration of social and environmental considerations into value chain management is described as ‘desire lacking reality’ thereby making the idea a patchy success. The objective of this research anthology is to investigate different angles of sustainable value chain management. The book’s 27 chapters fill holes and explore new fields in this area.

*Efficiency in Sustainable Supply Chain* Apr 01 2023 The book focuses on efficiency analysis in enterprises and describes a broader supply-chain context to support improved sustainability. The research and its outcomes presented here provide theoretical and empirical studies on efficiency analysis in the supply chain, including operational, economic, environmental and social aspects. This book sheds new light on the efficiency-assessment framework for practitioners and includes essential tips on how to improve the sustainability of supply-chains operations.

Strategic Environmental Assessment in Transport and Land Use Planning Jul 24 2022 Assessing the full scale of environmental impacts is essential for effective planning of transport and land use. This is an analysis of transport and land-use planning using strategic environmental assessment (SEA). It establishes the effectiveness of SEA through comparative studies of practice in three countries: Britain, the Netherlands and Germany. The author shows that use of SEA is widespread but far from systematic. He demonstrates the advantages of adopting a systematic application of a comprehensive form of SEA derived from all the major current approaches. Only once this approach is fully understood and systematically applied will all the full benefits be achieved and environmental impacts be minimized.

Green Supply Chain Management Mar 20 2022 This book gives students a thorough overview of the environmental issues that impact the supply chain and details strategic methods of addressing the political, social, technological, market, and economic concerns that have caused organizations to reconsider their impact. Readers will learn how to integrate the fields of operations management, procurement and purchasing, logistics, and marketing into a successful green supply chain, looking outward to form sustainable partnerships rather than focusing their efforts within the company. Each chapter describes a function or dimension of green supply chains, supplemented with short vignettes to ground the theory in practice. The authors examine various industries, including electronics, food products, and manufacturing, and draw on case studies from the Americas, Europe, Asia, and Oceania, allowing students to compare and contrast domestic and international practices. Blending industry insights with the latest academic thinking, they also consider hot button topics like global–local relationships, the role of third parties, green multitier supplier management, and blockchain technology management. Conclusive chapter summaries and plenty of visual aids help readers retain the information they need to improve environmental performance within, and beyond their organizations. *Green Supply Chain Management* is an excellent introduction to the topic for students and practitioners of supply chain management and environmental sustainability.

**Green Supply Chain Management: Product Life Cycle Approach** Nov 27 2022 A COMPLETE GUIDE TO IMPLEMENTING A GREEN SUPPLY CHAIN This detailed resource provides a stage-by-stage production methodology within the life cycle of a product to ensure environmental compliance and economic goals. After covering basic concepts and background, *Green Supply Chain Management: Product Life Cycle Approach* discusses green engineering technologies, green value chain management, and green information management systems. The book delivers the knowledge to quantify the environmental impact on supply chains and identify opportunities for making improvements, leading to both green engineering and green management of a product. COVERAGE INCLUDES: Mathematical background Green engineering Green materials Environmental design Green procurement--vendor selection with risk analysis Green production--manufacture and remanufacture in certain and uncertain environments Green logistics--recycling with certain and uncertain situations Green customers--features and identification End-of-life management--disassembly and reuse Database for life cycle assessment--procedure with database Web-based information support systems

**Sustainable Transport** Feb 28 2023 The aim of the book is to present the emerging environmental issues in organization and management of transport logistics. The scope of the book includes set of solutions which show different stakeholders’ viewpoints on sustainability. It points out how the transport operations organized and conducted in companies and regions might be consistent with the concept of sustainable development. The scope of the book takes into consideration trade-off relations between actors directly and indirectly involved in transport networks. Therefore, the authors present, in individual chapters, innovative approach to eco-friendly organization and coordination of

transport processes, as well as management of transport networks.

*Sustainable Logistics* Dec 09 2023 This book will bring a state of the art overview of the research done in sustainable logistics. It will be structured along the four A's of sustainable logistics: awareness, avoidance, acting and shifting goods, and anticipation of new technologies.

**Sustainable Operations and Supply Chain Management** May 02 2023 SUSTAINABLE OPERATIONS AND SUPPLY CHAIN MANAGEMENT SUSTAINABLE OPERATIONS AND SUPPLY CHAIN MANAGEMENT Sustainable Operations and Supply Chain Management addresses the most relevant topics of operations and supply chain management from the perspective of sustainability. The main focus is to provide a step-by-step guide for managerial decisions made along the product life cycle, following a path made up of the following steps: product design, sourcing, manufacturing, packaging and physical distribution, reverse logistics and recovery. Guidance is provided on understanding traditional operations and supply chain management approaches, tools and techniques such as production planning, stock management, quality management and performance measurement, which can be adapted to achieve economic, environmental and social sustainability. Key features: Repositions the main operations and supply chain management decisions developed in the perspective of the Life Cycle Analysis (Cradle-to-Cradle approach) and the Triple Bottom Line approach (economic, environmental and social sustainability) Covers sustainability and future trends, sustainable operations as a competitive factor as well as performance measurement and control Explores five main areas of operations and supply chain management; design for environment, procurement, manufacturing, packaging and distribution and reverse supply chain Provides a case study within each chapter to further the reader's understanding along with numerous examples and real-world problems The book will be valuable for students at undergraduate and graduate levels in management and engineering schools, as well as for practitioners working in operations and supply chain management functions.

**Factors Affecting Transportation Logistics** Apr 13 2024 The purpose of this book, *Factors Affecting Transportation Logistics*, is to provide the reader a basic understanding of various factors that logistics decision makers use when making logistic-related decisions. There are two major factor categories: internal environmental factors and external environmental factors. Internal environmental factors are divided into four levels: individual, service, functional and organizational levels. External environmental factors are divided into information technology, supply chain, globalization and corporate structure.

Consideration of Environmental Factors in Transportation Systems Planning Jan 30 2023 This report describes the transportation planning process and discusses where and how environmental factors can be addressed effectively at the state and metropolitan levels. This report should be especially useful to federal, state department of transportation (DOT), metropolitan planning organization (MPO), and local transportation planners, as well as other practitioners concerned with addressing environmental factors within transportation systems planning, priority programming, and project development planning leading to implementation. The research focused on environmental issues within the long-range transportation planning processes of state DOTs and MPOs and included the following: (1) a comprehensive review of recent literature; (2) a survey of approaches employed by state DOTs, MPOs, and environmental regulatory agencies; (3) a review of federal regulations and guidance on environmental factors; and (4) case studies to synthesize current practice in environmental planning.

**Environmental Issues in Supply Chain Management** Jan 10 2024 The aim of the book is to present the emerging environmental issues in organization and management of complex supply chains. The book includes set of solutions which show different stakeholders' viewpoints on sustainability. The scope of book takes into consideration how the emerging environmental regulation might be transformed into business practices. Therefore, the authors present the innovative approach to eco-friendly organization and coordination of logistics processes and supply chain configuration. A broad scope of practical solutions from different countries and industries is provided

*Management model for social and environmental impact in logistics through blockchain technologies* Dec 17 2021 In the context of the advancing digitalization of logistics processes, blockchain technologies are gaining in importance. Within the scope of sustainable logistics networks, they contribute to cross-stakeholder transparency and support the tracking and verification of products and processes to improve social and environmental parameters. The goal of this work is to develop a holistic management model to help users understand blockchain technologies in the context of their logistics network and to assess the mindful adoption of these technologies to specific problems. In addition, the model should enable the conclusion of expected impacts on participating actors within the logistics network with regard to social and environmental sustainability and, in a further step, provide a holistic approach to the implementation of blockchain technologies. Methodologically, a systematic literature analysis, two workshops and a case study exploration will be conducted for this purpose. Within the systematic literature analysis, 285 articles are evaluated and 53 relevant articles are synthesized. Based on the Nominal Group Technique, a first workshop with 30 experts from manufacturing companies, logistics service providers, technology companies and universities will be conducted and supplemented by a subsequent survey. In a second workshop, three use cases of blockchain technologies are analyzed with 24 experts in open and moderated group discussions. Finally, three exemplary case studies and eight expert interviews are conducted and systematically evaluated with respect to cross-case findings. The result of this thesis is a four-phase management model that guides users through the process of evaluating and implementing blockchain technologies in the context of sustainable logistics. While the first phase assesses requirements of the logistics network for general applicability of blockchain technologies, the second phase includes a model for the mindful adoption of blockchain technologies. Based on this, phase three provides a sustainability impact model to explain social and environmental impacts of individual actors involved in the logistics network. The fourth phase ultimately represents the implementation of blockchain technologies in logistics and is based on five management areas in which specific design recommendations, methods and tools are provided to enable a successful implementation. Finally, the thesis provides an outlook on a future vision and shows which changes in logistics networks can be expected due to blockchain technologies. Im Rahmen der voranschreitenden Digitalisierung von Logistikprozessen gewinnen Blockchain-Technologien zunehmend an Bedeutung. Sie leisten im Kontext nachhaltiger Logistiknetzwerke einen Beitrag zur aktorsübergreifenden Transparenz und unterstützen die Nachverfolgung und Verifizierung von Produkten und Prozessen zur Verbesserung sozialer und ökologischer Parameter. Ziel dieser Arbeit ist es, ein ganzheitliches Management Modell zu entwickeln, das Anwender dabei unterstützt, Blockchain-Technologien im Kontext ihres Logistiknetzwerks zu verstehen und die achtsame Anwendbarkeit dieser Technologien für spezifische Problemstellungen zu prüfen. Zudem soll das Modell eine Ableitung der zu erwartenden Effekte auf beteiligte Akteure innerhalb des Logistiknetzwerkes hinsichtlich der sozialen und ökologischen Nachhaltigkeit ermöglichen und in einem weiteren Schritt einen ganzheitlichen Ansatz zur Implementierung von Blockchain-Technologien bereitstellen. Methodisch werden dafür eine systematische Literaturanalyse, zwei Workshops sowie eine Fallstudienuntersuchung durchgeführt. Im Rahmen der systematischen Literaturanalyse werden 285 Artikel ausgewertet und 53 relevante Artikel synthetisiert. Basierend auf der Nominal Group Technique wird ein erster Workshop mit 30 Experten von Fertigungsunternehmen, Logistikdienstleistern, Technologieunternehmen und Hochschulen durchgeführt und durch eine anschließende Befragung ergänzt. Im Rahmen eines zweiten Workshops werden drei Anwendungsfälle von Blockchain-Technologien mit 24 Experten in offenen und moderierten Gruppendiskussionen analysiert. Abschließend werden drei exemplarische Fallstudien sowie acht Experteninterviews durchgeführt und systematisch hinsichtlich fall-übergreifender Erkenntnisse ausgewertet. Das Ergebnis dieser Arbeit ist ein vierphasiges Management Modell, das den Anwender durch den Prozess der Bewertung und Implementierung von Blockchain-Technologien im Kontext nachhaltiger Logistik führt. Während in der ersten Phase Anforderungen des Logistiknetzwerks auf generelle Eignung für Blockchain-Technologien geprüft werden, umfasst die zweite Phase ein Modell für die achtsame Adoption. Darauf aufbauend wird in Phase drei ein Modell zur Erklärung sozialer und ökologischer Effekte einzelner beteiligter Akteure des Logistiknetzwerks bereitgestellt. Die vierte Phase repräsentiert letztlich die Implementierung von Blockchain-Technologien in der Logistik und basiert auf fünf Managementbereichen, in denen gezielt Handlungsempfehlungen, Methoden und Werkzeuge bereitgestellt werden, um eine erfolgreiche Umsetzung zu ermöglichen. Abschließend gibt die Arbeit einen Ausblick auf eine zukünftige Vision und zeigt auf, welche Veränderungen in Logistiknetzwerken durch Blockchain-Technologien zu erwarten sind.

*Environmental Sustainability in Asian Logistics and Supply Chains* May 10 2021 This book gathers together invited presentations from the 12th International Congress on Logistics and SCM Systems (ICLS2017) held in Beijing, China, August 20–23, 2017. The focus of the ICLS2017 was environmental sustainability in logistics and supply chains, particularly in the Asia-Pacific region. It addressed a variety of themes in the domains of green logistics and supply chain management (SCM), including green logistics and environmental impact, green SCM and business performance, green operations and optimization, supply chain sustainability, carbon management in logistics, and green SCM and corporate social responsibility (CSR). The editors selected high-quality presentations from the highly successful symposium, and invited the presenters to prepare full chapters for this book in order to disseminate their findings and promote further research collaborations. This timely book sheds new light on the theories and practices associated with greening logistics and SCM in Asia.

**Assessment and Decision Making for Sustainable Transport** Jul 04 2023 This report makes recommendations for good practice bringing the results of economic appraisals and environmental assessments before decision makers in the transport sector on the basis of reviews of recent experience in infrastructure planning and policy development in seven countries.

**Handbook on Applying Environmental Benchmarking in Freight Transportation** Dec 29 2022 "NCFRP Report 21: Handbook on Applying Environmental Benchmarking in Freight Transportation identifies and evaluates approaches that can be used by public and private entities to estimate, monitor, and reduce freight emissions and impacts across the supply chain by examining how benchmarking can be used as a management tool in the freight and logistics industry to promote environmental performance. The handbook provides a step-by-step overview of the benchmarking process and describes a framework for applying this process to freight carriers, shippers, and freight hubs"-- Foreword.

**Supply Chain and Logistics in National, International and Governmental Environment** Aug 13 2021 Logistics is an integral part of our everyday life. Today it influences more than ever a large number of human and economic activities. In this book, authors try to illustrate some advanced logistics and supply chain management topics, recently mentioned by academic and industrial personnel. This book has been organized in 12 chapters such that the reader can study each chapter not only independently as shown in Fig. 1; but also as part of a whole. If someone wants to study the book more deeply, the suggested approach for this study is shown in Fig. 2. So the readers of this book may be divided into at least two groups: (1) students in Master's courses or higher, who can use this book in their courses as a whole, and (2) experts who want to learn more about a new topic in logistics and supply chain management; this group may want to read a chapter about a special topic that is found in this book. In the context of global competition, the more latent topics in logistics supply chain management are fast growing. This book falls within this perspective and presents 12 chapters that well illustrate the variety and complexity of these topics. This book is organized as follows: Chapter 1 introduces logistics and supply chain management and contains some primal definitions about these two concepts; some obstacles, prerequisites and infrastructures of modernized logistics and supply chain management and global supply chain management are illustrated.

**Green Logistics** Nov 08 2023 Leading the way in current thinking on environmental logistics, Green Logistics provides a unique insight on the environmental impacts of logistics and the actions that companies and governments can take to deal with them. It is written by leading researchers in the field and provides a comprehensive view of the subject for students, managers and policy-makers. Fully updated, the 3rd edition of Green Logistics has a more global perspective than previous editions. It introduces new contributors and international case studies that illustrate the impact of green logistics in practice. There is a new chapter on the links between green logistics and corporate social responsibility and a series of postscripts examining the effects of new developments, such as 3D printing, distribution by drone, the physical internet and the concept of peak freight. Other key topics examined include: carbon auditing of supply chains; transferring freight to greener transport modes; reducing the environmental impact of warehousing; improving the energy efficiency of freight transport; making city logistics more environmentally sustainable; reverse logistics for the management of waste; role of government in promoting sustainable logistics. The 3rd edition of Green Logistics includes indispensable online supporting materials, including graphics, tables, chapter summaries, and guidelines for lecturers.

**Sustainable Production and Logistics** Jan 18 2022 Addressed the state-of-the-art of Smart and Sustainable sides of production and distribution planning operations Highlights how a current issue can be effectively approached in a particular decision-making situation, using a suitable quantitative technique Provides a foundation in the new and fast-growing area of IoT, cyber-physical systems, AI, robotics, cyber-security, data analytics, block-chain, cloud technology, and sustainability Presents logistics 4.0 in Industry 4.0 which changes the patterns of logistics Offers case studies in disassembly sequence planning

**Environmental Analysis of Transportation Systems** Jun 15 2024

**Green Supply Chain Management** Sep 25 2022 Today, one of the top priorities of an organization's modern corporate strategy is to portray itself as socially responsible and environmentally sustainable. As a focal point of sustainability initiatives, green supply chain management has emerged as a key strategy that can provide competitive advantages with significant parallel gains for company profitability. In designing a green supply chain, the intent is the adoption of comprehensive and cross-business sustainability principles, from the product conception stage to the end-of-life stage. In this context, green initiatives relate to tangible and intangible corporate benefits. Sustainability reports from numerous companies reveal that greening their supply chains has helped reduce operating cost, thus boosting effectiveness and efficiency while increasing sustainability of the business. Green Supply Chain Management provides a strategic overview of sustainable supply chain management, shedding light on the theoretical background and key principles of the topic. Specifically, this book covers various thematic areas including benefits and impact of green supply chain management; enablers and barriers on supply chain operations; inbound and outbound logistics considerations; and production, packaging and reverse logistics under the notion of "greening". The ultimate aim of this textbook is to highlight the challenges in the implementation of green supply chain management in modern companies and to provide a roadmap for decision-making in real-life cases. Combining chapter summaries and discussion questions, this book provides an accessible and student-friendly introduction to green supply change management and will be of great interest to students, scholars and practitioners in the fields of sustainable business and supply chain management.

**Environmental External Costs of Transport** Jun 10 2021 Transport causes a wide range of damage to human health, ecosystems and materials which are not reflected in the prices for transport. Thus, the damage caused by cars, planes, ships and trains should be known and transformed into monetary values, so called external costs. Within this book, a method to estimate the external costs stemming from the emissions of atmospheric pollutants of transport, including damage from greenhouse gases, fine particles, ozone, nitrous oxides, benzene and other carcinogenic substances, is described and applied to calculate the external costs of a huge number of current and future transport techniques operating in different locations all over Europe. A number of case studies demonstrate how the results can be used to aid policy decisions. The book is an important basis for assessing transport techniques, discussing transport taxes and charges and implementing ecopolitical instruments.

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