



MANUFACTURE  
FOR CIRCULAR  
ECONOMY



USE LESS TO  
MINIMISE WASTE



DESIGN FOR  
CIRCULAR  
ECONOMY



COLLECT AND  
SORT WASTE



LESS NATURAL  
RESOURCE USE



MAXIMISE  
RECYCLING

MINIMISE WASTE  
TO LANDFILL



# Latest Circular Economy

**Xiang Xie**



## **Latest Circular Economy:**

**Circular Economy: Recent Trends in Global Perspective** Sadhan Kumar Ghosh, Sannidhya Kumar Ghosh, 2021-11-23  
This book presents the advantages of the circular economy as a powerful and inevitable model for tackling the current challenges against shrinking resources and establishing the resource efficient economy. The experienced contributors present the status and strategies of circular economy implementation in several countries with hands on experience to protect the environment while promoting the circular economy through legislative requirements, best practices adopted and popularizing the idea of circulation of resources amongst the researchers, academia, policy makers, industry and the general public at large. The book advocates a model that consists of designing products and processes with a view to endlessly recycling them, evolving a greater scope of sustainable development. *Green Circular Economy* Pardeep Singh, Anamika Yadav, Indranil Chowdhury, Ravindra Pratap Singh, 2023-10-12  
This book highlights the concepts, issues and policies related to the circular economy. The chapters of this book are designed to include the theoretical approach to the green circular economy, sustainable supply chain and challenges in the green circular economy. The book is a step towards designing sustainable circular economy embedded production and management practices. This book also addresses the capability of green lean productions and a circular economy to improve resource efficiency and address environmental sustainability issues. Environmental sustainability is a hot topic in politics, science and industry. There is a need to achieve economic, social and environmental sustainability goals through adaptations of the green circular economy which can help minimize greenhouse gas emissions, toxic pollutant releases, waste and energy and resource usage by employing renewable energy concepts and recyclable materials. The production processes must be resource efficient and environmentally friendly, including green lean manufacturing. Adopting a circular economy in manufacturing is less evident than green lean management. However, systematic strategies to bridge this gap have yet to be devised. There is an urgent need to fully explore the Circular Economy concept to attain resource and environmental goals for the sustainability of the environment in the present era of global climate change. Its framework's powerful strategies need to solve the problem created by linear economic growth through industrialization and gross economic growth. There is a need to improve the sustainability management capabilities in the manufacturing and industrial sector to support the circular economy and a need to examine the impact of green human resource management. This book proposes the combined approach of green lean solutions and a green circular economy. Through this book, we try to produce the content and information in a compiled form to give the audience an understanding of the circular economy concept, framework and challenges.

**Current Trends on Innovability and Sustainable Innovation** Anna Ujwary-Gil, Anna Florek-Paszowska, 2025-06-01  
Introduction to the Innovability Index. More than the fusion of innovation and sustainability, the integration of innovation and sustainability conceptualized as innovability represents a strategic construct for addressing global challenges such as climate change, resource constraints and social inequality. The

conceptual understanding of innovability has advanced but its empirical measurement and operationalization remain underdeveloped. This conceptual paper introduces the Innovability Index designed to evaluate the extent to which countries, regions, or organizations embed sustainability principles. The index encompasses four dimensions: technological innovation for sustainability, environmental sustainability, social inclusiveness, and sustainable business practices. Each dimension is assessed through a set of indicators, normalized, weighted, and aggregated to generate a composite performance score. The Innovability Index provides a structured approach for benchmarking sustainable innovation capabilities. It is a practical tool for policymakers, firms, and researchers to align innovation ecosystems with sustainability imperatives and the Sustainable Development Goals (SDGs). This conceptual paper opens the thematic issue of innovability and sustainable innovation as well as addresses a gap in the literature by introducing the initial attempt to measure innovability.

**Keywords:** Innovability, Innovability Index, sustainable development, ESG, sustainability, sustainable innovation, technological innovation, environmental sustainability, social inclusiveness, sustainable business practices, Leadership competencies for innovability, Bridging theory and practice for sustainable development.

**PURPOSE:** This study explores the critical leadership competencies necessary for fostering innovability, the integration of innovation and sustainability within organizations, particularly in education institutions, HEIs, and the business sector. The research seeks to address the gap in understanding how these competencies are developed in HEIs and whether they effectively prepare graduates with the skills needed for the current business context. Additionally, the study emphasizes the need to identify robust instruments for measuring these competencies to ensure their practical application in organizational settings.

**METHODOLOGY:** A systematic literature review (SLR) was conducted using Scopus and Web of Science databases. The study employed a rigorous selection process to identify relevant empirical studies published between 2015 and 2024. A total of 53 articles were analyzed to address three key research questions related to the characteristics of innovability, leadership recommendations for developing innovability in organizations, and the methodologies or instruments used to identify these competencies. The analysis involved thematic synthesis and content analysis to extract insights and identify gaps in the existing literature.

**FINDINGS:** The study identifies five key categories of leadership competencies essential for innovability, including strategic leadership, fostering a culture of collaboration, commitment to sustainability, continuous education, and sensitivity to global megatrends. Despite the recognition of these competencies, the study reveals a significant lack of empirical research on their practical implementation and measurement. The findings also highlight the need for robust tools to assess these competencies effectively. Additionally, the study provides several recommendations for developing innovability for their integration into the business sector, emphasizing the importance of leadership development programs, the integration of sustainability into corporate strategy, and the promotion of a collaborative organizational culture.

**IMPLICATIONS:** Theoretically, the study contributes to the conceptual framework of innovability leadership by identifying critical competencies and suggesting a more integrated approach to leadership.

development in business education Practically the research underscores the importance of developing targeted training programs and assessment tools to cultivate these competencies in future leaders This is particularly relevant for business schools which play a crucial role in preparing students to address complex global challenges ORIGINALITY AND VALUE This study fills a gap in the literature by providing a detailed examination of the competencies required for innovability leadership and proposing directions for future research and practice It offers a unique contribution by bridging the theoretical and practical aspects of innovability in leadership particularly within the context of higher education Keywords innovability leadership competencies sustainability business education systematic literature review Sustainable Development Goals SDGs leadership development educational innovation higher education Integrating science technology and experimental knowledge for sustainable innovation A Living Lab approach to urban biodiversity management PURPOSE This study aims to enhance understanding of STI Science Technology Innovation and DUI Doing Using Interacting integration dynamics in sustainable innovation specifically investigating its role in innovation outcomes stakeholder engagement and the institutionalization of sustainable practices in urban lawn management METHODOLOGY Using a single case study design the study captures real time dynamic interactions between STI and DUI practices observing ongoing processes Data were collected through five focus group interviews with 32 stakeholders individual interviews project documentation and a project diary Stakeholders included public sector officials NGOs private garden owners and business representatives each offering insights into policy environmental practices and market driven solutions The Living Lab methodology emphasizing co creation and iterative feedback guided both data collection and analysis with NVivo software and manual coding used to identify key themes and challenges in integrating STI and DUI for sustainable innovation FINDINGS The investigation revealed that integrating STI and DUI modes fosters a dynamic synergy STI provided scientific rigor while DUI leveraged stakeholder input and local contexts to co develop adaptive urban biodiversity solutions This approach addressed location specific challenges balancing ecological goals with practical feasibility For instance stakeholder engagement refined scientific recommendations ensuring broader applicability and adoption Despite tensions between rigor and practicality the participatory Living Lab methodology facilitated co creation aligning scientific insights with real world needs to enhance sustainable lawn care practices IMPLICATIONS The study contributes to innovation theory by showing how integrating STI and DUI modes fosters socially responsive adaptable solutions for urban biodiversity management From a practical standpoint it underscores the importance of stakeholder engagement in developing tools and strategies that balance scientific insights with practical real world application The project offers a replicable model for integrating formal research with user driven innovation in sustainability projects ORIGINALITY AND VALUE This paper provides a unique contribution by showcasing how the integration of formal scientific research STI with practical user centered approaches DUI can foster innovability The use of the Living Lab methodology to co create urban biodiversity solutions bridges the gap between academic research and practical application

offering a novel framework for addressing complex environmental challenges through collaborative innovation

**Keywords** sustainable innovation Science Technology Innovation STI Doing Using Interacting DUI urban biodiversity lawn management Living Lab stakeholder engagement participatory innovation co creation climate change adaptation The role of green blue ocean strategy in enhancing frugal innovation through IoT and AI A resource based view perspective

**PURPOSE** This study explores the role of Green Blue Ocean Strategy GBOS in promoting frugal innovation by leveraging IoT and AI from an RBV theoretical perspective targeting creative entrepreneurs in Central Java Indonesia

**METHODOLOGY** A quantitative approach was used with Structural Equation Modelling SEM analyzed via AMOS Data from 262 creative entrepreneurs were collected through an online closed questionnaire using purposive sampling

**FINDINGS** The study reveals that 1 IoT does not significantly impact frugal innovation 2 AI positively influences frugal innovation and 3 GBOS effectively mediates the relationship between IoT AI and frugal innovation suggesting that integrating sustainable strategies with technology can lead to more cost effective and inclusive innovations

**IMPLICATIONS** for theory and practice The study extends the RBV framework by integrating the GBOS concept demonstrating its effectiveness in optimizing digital technology for sustainability driven innovation It contributes to the literature on sustainability strategies and the Resource Based View by introducing a novel theoretical model that links GBOS IoT and AI with frugal innovation Practically GBOS offers a pathway for creative entrepreneurs to overcome resource constraints and achieve competitive advantages through sustainable practices

**ORIGINALITY AND VALUE** This study introduces Green Blue Ocean Strategy GBOS as a novel conceptual framework that extends the traditional Blue Ocean Strategy BOS by integrating sustainability principles GBOS addresses both economic and environmental concerns enabling businesses to achieve cost effective innovation Grounded in the Resource Based View RBV this study systematically develops and empirically tests GBOS by linking it with IoT AI and frugal innovation The framework offers a new lens for sustainable competitive advantage in resource constrained environments

**Keywords** internet of things artificial intelligence green blue ocean strategy frugal innovation resource based view sustainability sustainable strategy digital technology sustainability driven innovation sustainable innovation The impact of eco innovation on circular economy in EU countries How patents affect circular material use rate

**PURPOSE** The main objective of this study is to examine how eco innovation activities measured by the number of patents related to recycling and secondary raw materials affect the level of use of circular materials in economic processes in European Union countries Simultaneously to take into account the impact of the other drivers of the circular economy the study includes control variables such as GDP per capita share of income from environmental taxes age structure of the population and level of education of the population

**METHODOLOGY** This study uses a generalized linear model for panel data For all analyzed explanatory variables greater inter group variation than intra group variation was observed so a panel averaged effects estimator was used The study sample includes 28 European Union EU countries The time scope of this study is 2010 2019

Eurostat database was the source of the unbalanced panel data. This study seeks answers to the following research question: What is the impact of patents related to waste management and recycling on the circularity rate of the EU economies?

**FINDINGS** The results indicate that leaders in the area of circularity are the Netherlands, France, and Belgium. Ireland, Romania, and Portugal occupy last place in terms of the circularity of the economy. There is considerable variation in the number of patent applications related to waste management and recycling in the EU countries. Luxembourg, Finland, Belgium, and the Netherlands have the highest propensity for patents. In contrast, Bulgaria, Greece, and Croatia show the lowest patent activity. Finally, the higher the propensity to patent in waste management and recycling technologies, the higher the rate of circular use of materials.

**IMPLICATIONS** The results provide a compelling rationale for prioritizing and incentivizing investments in promising technologies to achieve both environmental sustainability and economic prosperity in the long term.

**ORIGINALITY AND VALUE** Our study sheds new light on the link between eco innovation and circular economy in EU countries. We address the issue of possible nonlinearities between circularity and its drivers. Given the fractional nature of the response variable, i.e. circular material use rate, we apply the generalized estimating equations (GEE) approach to model both the mean structure and association structure of fractional responses.

**Keywords:** circular economy, CE, circularity, eco innovation, patent, circular material use, CE driver, EU countries, generalized estimating equations, recycling technologies, waste management, Unitary Patent System, and innovation dynamics in the European Union, The role of economic resources and R D investments.

**PURPOSE** The EU supports competitiveness and sustainability via innovations by the patent protection of inventions. On 1st June 2023, the EU launched the Unitary Patent System (UPS) with the Unitary Patent as a universal innovation protection tool. The data regarding its first 20 months of operations offers indices about innovation and patenting trends.

**METHODOLOGY** The contextual exploration of the UPS was projected into four aims: addressing the absolute and relative numbers of Unitary Patents (A1) and the relationship between Unitary Patents and GDP per capita (A2) and GERD (A3) and comparatively juxtaposing them (A4). This deeper contextual understanding of Unitary Patenting dynamic entails EU member states and their top four competitors: China, Japan, South Korea, USA. The data regarding the GDP, GDP per capita, GERD, number of Unitary Patents in total and per millions of inhabitants was collected and visualized via tables and charts and submitted to a critical comparison.

**FINDINGS** The first 20 months of the UPS operations suggests that the Unitary Patent is a viable but not the most popular patenting option and that there is a positive impact on the GDP per capita and GERD for the majority of the EU member states and that there are differences between EU member states in their efficiency to generate Unitary Patents.

**IMPLICATIONS** The performed study confirms the parallel co-existence of various patenting strategies and the importance of investments in patented inventions. However, the size of GDP per capita followed by GERD is a mere pre-requisite that leads to diversified efficiency even among similar jurisdictions with at least an average GDP per capita and GERD. Arguably, the UPS magnifies the differences and the six original European integration jurisdictions are not

the best UPS players There are indices about positive trends for Northern EU member states and negative trends for Southern EU member states ORIGINALITY AND VALUE This is a pioneering contribution regarding a newly launched system showing that despite the same regime EU member states differ dramatically in their approach to patenting and that the level of GDP per capita and GERD are just the starting points Keywords Unitary Patent System EU member states GDP gross domestic expenditure on research and development GERD GERD per GDP GERD Index innovation sustainability economic resources patent protection The Digital Sustainability Ecosystem A conceptual framework for digital transformation and sustainable innovation PURPOSE This study introduces the Digital Sustainability Ecosystem a conceptual framework to integrate digital transformation and sustainable innovation It examines how emerging digital technologies including artificial intelligence blockchain and the Internet of Things drive sustainability transitions by serving as strategic enablers Addressing a critical gap in the literature this research focuses on the dynamic mechanisms and synergies that connect digital transformation with sustainable innovation within a complex ecosystem METHODOLOGY The study employs a systematic literature review SLR of 50 studies and a comparative analysis of 13 existing frameworks to identify and analyze key mechanisms that link digital transformation and sustainable innovation culminating in the development of the Digital Sustainability Ecosystem framework FINDINGS The study identifies five interconnected mechanisms efficiency gains dematerialization circular economy enablement innovation acceleration and digital collaboration These mechanisms illustrate the relationships between technological advancements and sustainability objectives while addressing synergies and tensions such as the trade offs between energy demands and environmental benefits The Digital Sustainability Ecosystem emphasizes multi stakeholder collaboration iterative feedback loops and adaptable processes to address gaps in existing models positioning digital transformation as a transformative force for systemic sustainability improvements IMPLICATIONS The Digital Sustainability Ecosystem advances theoretical discourse by positioning sustainability as a systemic outcome of digital transformation extending beyond traditional efficiency focused models It emphasizes organizational resilience and stakeholder collaboration as pivotal for achieving sustainability objectives Practitioners can leverage AI IoT and blockchain to enhance resource optimization and foster sustainability driven innovation ecosystems Policymakers and organizations are encouraged to combine digital strategies with sustainability imperatives emphasizing adaptive leadership regulatory alignment and multi stakeholder engagement ORIGINALITY AND VALUE This study presents a conceptual framework that bridges theoretical and practical gaps in the literature by integrating foundational theories that associate digital transformation with sustainability imperatives while fostering innovation and competitive advantage The framework sets the stage for future research emphasizing potential applications in industry specific contexts cross sectoral collaborations and the evolving role of emerging technologies in sustainability transitions By incorporating dynamic feedback loops and systemic adaptability this framework establishes a foundation for advancing both academic inquiry and practical implementation It

offers guidance for exploring unanswered questions about scalability policy integration and multi stakeholder engagement in the digital age Keywords digital transformation sustainable innovation digital sustainability ecosystem sustainability transitions artificial intelligence blockchain Internet of Things circular economy efficiency gains dematerialization acceleration digital collaboration stakeholders

### **Circular Economy and Sustainable Development** Alexandros I.

Stefanakis,Ioannis E. Nikolaou,2024-10-22 This book will highlight the role of CE in the sustainability field as it is expressed in the various fields and disciplines and its contribution to building a sustainable society by providing a better understanding of the relevant social and cultural structures and the need for cross disciplinary knowledge and diverse skills Such an integrated approach which combines the concept of sustainability in the engineering field to create a CE has not yet been presented in detail in the published literature and there are only scattered studies covering only small parts of this holistic approach Hence this book will represent a single reference that will provide summarized information and state of the art knowledge on this topic of the future The book will include chapters showcasing investigating the relation between circular economy principles and their realization in different engineering fields This includes theoretical justification research studies and full scale case studies The approach focuses on two distinct levels macro and micro on both production and consumption sides

### **The Contribution of Life Cycle Analyses and Circular Economy to the Sustainable Development Goals**

Luciana Brandli,Francisco Dalla Rosa,Rudi Petrorius,Lucas Veiga Avila,Walter Leal Filho,2025-07-01 This book offers a comprehensive review of life cycle assessment LCA circular economy CE and sustainable development exploring their achievements and progress across the world The book also emphasizes the significant contribution of LCA and CE to achieving the Sustainable Development Goals SDGs demonstrating how these frameworks can drive progress toward global sustainability targets The main topics covered include the environmental and economic assessment of building materials the life cycle of agricultural and bio based products the role of venture businesses in promoting CE and the impact of CE on sustainable development Additionally the book discusses energy optimization in supply chains the nexus between comparative advantage and the bio based economy and the use of CE frameworks in energy management for educational institutions Key chapters highlight the valorization of waste materials for bioethanol production the evolution of LCA studies on electric vehicle batteries and the implementation of EDGE certification in Brazilian public schools The book also explores the integration of LCA and CE in architectural education the challenges and barriers to CE adoption in Nigeria and the role of public policy in advancing CE in Brazil These topics are critically important as they address the pressing need for sustainable practices in various industries The integration of LCA and CE principles is crucial for minimizing environmental impacts optimizing resource use and fostering innovation in sustainable development The book aims to solve the problem of how to effectively incorporate these principles into practice providing methodological approaches case studies and policy perspectives that illustrate successful implementations and identify areas for improvement The target audience for this book

includes researchers policymakers industry professionals and students interested in sustainability environmental science and circular economy practices By offering in depth analysis and practical insights this book serves as a valuable resource for anyone seeking to understand and apply LCA and CE principles to achieve sustainable development goals *New Frontiers of Construction Management* Marco Alvisè Bragadin,Kalle Kähkönen,Emlyn Witt,2025-06-02 This book comprises the select proceedings of the 3rd Construction Management Workshop CMW 24 New Frontiers of Construction Management held in Ravenna Italy on November 7 8 2024 It highlights key research topics that could be drivers of change and innovation in the management of the construction and building processes in its various stages including design construction operation and maintenance disposal and reuse It represents a contribution to the debate and an introduction to new methods and tools addressing building production and management The contributions focus on the use of methodologies for Construction Project Management especially those that have witnessed recent developments because of the digitalization of building processes the use of Artificial Intelligence and the search for environmental sustainability Topics include AI and Digitalization of building processes Building Information Modelling and Built Heritage Construction Project Management and Lean Construction Off site Construction Occupational Health and Safety management Environmental impacts Circular Economy Low carbon Life Cycle Assessment in construction projects Implementation of Circular Economy in Supply Chains and Production Systems Roma Marczewska-Kuzma,Lukasz Hadas,Paulina Golinska-Dawson,2025-07-08 This book covers various aspects of sustainability including green economy green energy and waste management It offers analysis of key challenges in contemporary world as well as concepts and solutions that can be implemented to deal with them The authors represent various universities located all over the Europe hence their perspectives are different and confronting their points of view will result in holistic review of current topics connected with circular economy The book can be interesting for academics as it presents the latest research results for business practitioners as it supplements research with case studies and real life examples and for students who can learn about new challenges solutions they will have to deal with in their professional careers SME Policy Index: Western Balkans and Turkey 2022 Assessing the Implementation of the Small Business Act for Europe OECD,2022-07-08 Small and medium sized enterprises SMEs are essential drivers of sustainable economic growth in the Western Balkans and Turkey where they make up 99% of all firms generate 65% value added and account for 75% of employment Nevertheless SMEs across the region continue to face obstacles such as difficulties accessing financing low levels of digital uptake regulatory barriers and relatively low participation in international trade **Circular Economy** Tao Zhang,2021-02-10 Nowadays the restriction of resources and the environment is very severe A circular economy is the only way to sustainable development but how this works still needs more exploration The series of studies carried out by the author are described in detail in this book **A New Dynamic 2** Amory B. Lovins,2016 **Best Practices in Urban Solid Waste Management** Giulia Romano,Claudio Marciano,Maria Silvia Fiorelli,2021-07-12

The book provides an overview of best practices in urban waste management in the zero waste framework assuming a multidisciplinary perspective. By analysing exemplary cases of firms and local governments, significant ownership, governance and performance issues are discussed along with key drivers of sustainable urban waste management. Circular Economy Günther Dobrauz-Saldapenna, Nicolas Huras, 2023-11-02. Every leaf that falls from a tree becomes part of a new circle. In non-human ecosystems, everything is re-used or re-purposed. The natural world is the perfect circular system. Why is the same not true for humankind? Most of the things we possess will ultimately not be used for a long period of time. The current take-make-waste approach is a given fact of our present economy that we have perfected since the industrial revolution. The editors, Dr. Guenther Dobrauz Saldapenna and Nicolas Huras, believe that we urgently need to change our ways of producing, consuming and living. It is time to seriously consider circular economy as an alternative model. This book brings together thinkers and innovators from academia as well as business who share their ideas. Does it deliver answers to all our challenges? Probably not, but it is a great place to start. The future must be circular and decentralized. This book was printed according to the Cradle to Cradle principle. The dust jacket contains flower seeds and can be planted in the ground; watch the flowers grow. *ICTR 2022 5th International Conference on Tourism Research* Cândida Silva, Mónica Oliveira, Susana Silva, 2022-05-19. *Role of Circular Economy in Resource Sustainability* Pezhman Ghadimi, Michael D. Gilchrist, Ming Xu, 2022-01-08. This book aims to provide academic and industrial applications, advancing the critical role of circular economy principles in the sustainability of various resources. The latest research and practice in resource sustainability are shared, discussed and promoted. The core competency of this book revolves around providing recent advances in sustainable consumption and production implementations, developed tools for environmental and sustainability assessment, technological advancements in resource and waste management, treatment and advances in waste reduction, reuse, recycling and recovery. Resources are defined broadly to include: 1) physical resources (metals, non-metallic minerals, energy and water); 2) biological resources (food, forestry, land, ecological systems, etc.); and 3) misplaced resources (air emissions, water pollutants, and solid waste). Finally, legislation and policy implications and recommendations for resource sustainability are concluded. *Circular Economy Strategy for SDG Business Management* Young Won Park, Kin'ya Tamaki, 2025-03-28. This book delineates the framework to research and develop new theories and system techniques for a circular economy (CE) strategy to fulfill Sustainable Development Goals (SDGs) in the era of digital, sustainable and green transformation (DX, SX and GX). For that purpose, five system techniques are presented here: 1) multi-generational and circular economy value chain management (CE-VCM); 2) cyclical resource supply and resource collection; 3) CE product planning and digital marketing; 4) lifecycle design of IoT (Internet of Things) products; and 5) a sharing platform and application software compatible with CE-VCM. The book also explores how to proceed with international trends in research concerning CE policies and standards in Japan, the EU and the USA. Included are case studies of advanced CE companies in diverse industries such as automobiles, electronics, food and agriculture, and software, to name just a few.

Surveys of trends in CE policy and successful industry case studies in Japan are presented and compared with those in other countries. In the past the Japanese manufacturing industry was primarily based on the business model of selling off the products introduced into the market and the 3R tactics of reuse, reduce, and recycle to follow up on waste disposal. Compared to global movements, however, the responses to the CE trend in Japan, the Japanese government's CE policy, and CE management strategy in the Japanese industrial world have lagged considerably behind. In the future, when Japanese companies conduct global business transactions, it will be pivotal for them to implement a CE management strategy compatible with the ISO 59000 series. The Japanese government and global companies must respond to the SDGs, including Goal 12, Producer and Consumer Responsibility. To keep up with external environmental trends, Japanese global firms also must respond to the changes discussed in this informative volume.

**Circular Economy and Engineering** Carolina Machado, J. Paulo Davim, 2020-04-08. This book provides support to academics and researchers as well as those operating in the management and engineering fields that need to deal with policies and strategies that allow to move towards a more sustainable paradigm, a greener economy that guarantees economic development and the improvement of living and working conditions. Drawing on the latest developments, ideas, research, and best practice, this book examines the new advances in the subjects of circular economy.

[The Circular Economy Handbook](#) Peter Lacy, Jessica Long, Wesley Spindler, 2019-12-31. Can we align global production and consumption systems with sustainability? Can business growth actually lead to a healthier planet? Can companies innovate through the circular economy to create competitive advantage and genuine impact? Waste to Wealth proved that the emerging circular economy advantage exists now. Lacy, Long, and Spindler show you how to realize it at speed and scale in [The Circular Economy Handbook](#). We stand at a crossroads with rising geopolitical and geo-economic tensions, massive technological change, and a host of social and environmental challenges. We are pushing planetary boundaries to their limits with climate change and threats to biodiversity and oceans, as just a few examples. Significant impacts are already being felt, and both people and planet face potentially catastrophic and irreversible consequences if we don't urgently change our global model and systems. Our current linear take-make-waste models of production and consumption will not be sustainable in a world of some 9 billion people by 2050, especially with ever-expanding rates of consumption. Thriving within these dynamics demands more than incremental adjustments to business as usual. The circular economy offers a powerful means to decouple growth from use of scarce and harmful resources, enabling greater production and consumption with fewer negative environmental impacts at the same time, making companies more innovative and competitive. In fact, this book shows that 4.5 trillion in economic value is at stake. Delivering on the promise of a circular economy demands impact and scale extending through value chains and ultimately disrupting the entire economic system. In [The Circular Economy Handbook](#), the authors illuminate the path from insight to action, from linear to circular. With case studies, advice, and practical guidance, they show leaders how to pivot towards a holistic circular organization, embedding

circularity internally and delivering broad based system change With unique insights across business models technologies and industries featuring stories and real world examples from circular pioneers this book is the essential guide to help companies become leaders in the movement to secure the circular economy advantage **Vietnam Economic News**,2021-07 [The Guide to the Circular Economy](#) Dustin Benton,Jonny Hazell,Julie Hill,2015-01-05 The term Circular Economy is becoming familiar to an increasing number of businesses It expresses an aspiration to get more value from resources and waste less especially as resources come under a variety of pressures price driven political and environmental Delivering the circular economy can bring direct costs savings to businesses reduce risk and offer reputational advantages and can therefore be a market differentiator but working out what counts as circular activity for an individual business as against the entire economy or individual products is not straightforward This guide to the circular economy gives examples of what this new business model looks like in practice and showcases businesses opportunities around circular activity It also explores the debate around circular economy metrics and indicators and helps you assess your current level of circularity set priorities and measure success equips readers to make the links between their own company s initiatives and those of others making those activities count by influencing actors across the supply chain Outlines the conditions that have enabled other companies to change the system in which they operate Finally this expert short work sets the Circular Economy in a political and business context so you understand where it has come from and where it is going **Direct Digital Manufacturing and Polymers** Geoffrey R. Mitchell,Nuno Alves,Artur Mateus,2019-04-09 2nd International Conference on Direct Digital Manufacturing and Polymers 2nd CDDMAP Selected peer reviewed papers from the 2nd International Conference on Direct Digital Manufacturing and Polymers 2nd CDDMAP May 15 18 2017 Marinha Grande Portugal

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