



# Trending Circular Economy

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## **Trending 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 model that consists of designing products and processes with a view to endlessly recycling them evolving a greater scope of sustainable development

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 immovability 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 requirement 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

**Emerging Trends and Innovations in Industries of the Developing World** Dimitrios A. Karras, Sai Kiran Oruganti, Sudeshna Ray, 2023-09-28

ISC 2022 is dedicated to the Niti Aayog policies to promote sustainability through exchange of ideas emerging out of the academia The ISC is an annual conference that is held in virtual mode until COVID restrictions on travel exist The vision of the conference is to capacitate Academia with the necessary ideas that provide insights of the grassroot level development to various stakeholders of the Niti Aayog policies Towards this goal the conference creates a conjunction of various stakeholders of Niti Aayog policies that include academic institutions government bodies policy makers and industry The ISC organizers make concerted efforts to promote academic research that would technological scientific management business practices and insights into policy merits disruptions The framework of exchange of ideas is geared towards adoption of deep technologies fundamental sciences engineering energy research energy policies advances in medicine related case studies This framework enables the round table discussions between the academia industry and policy makers through its range of plenary and keynote speakers

**Fintech**

**Revolution and Financial Inclusion in Emerging Markets: Shaping Sustainable Digital Finance** Mohammed Majeed, Sofia Devi Shamurailatpam, Parag Sunil Shukla, Ibrahim Osman, Hamidu Gafaru Dokurugu, 2025-12-12

Explore how modern technologies are transforming access to finance across developing economies in Fintech Revolution and Financial Inclusion in Emerging Markets Shaping Sustainable Digital Finance The book highlights how AI blockchain mobile banking and digital

lending platforms are helping bridge financial gaps empower underserved communities and promote equitable economic participation Through clear explanations real world cases and multidisciplinary insights it examines the opportunities and challenges of using fintech for sustainable development covering themes such as gender inclusion regulatory hurdles ESG integration and digital adoption Key Features Explains how fintech innovations expand financial access and inclusion Traces the evolution of digital finance across emerging markets Highlights case studies on women s empowerment rural credit access and digital microfinance Examines regulatory ethical and ESG considerations in fintech ecosystems Demonstrates how technology strengthens resilience and supports sustainable development

*Fashion for the Common Good* Isabel Cantista, Elaine L. Ritch, Linda Shearer, Silvia Pérez-Bou, Sonika Soni Khar, 2024-04-01 This book presents state of the art research from around the world on how the fashion industry can help in the transition towards a sustainable model of development and a circular economy It presents the proceedings of the 10th Global Fashion Conference held in 2023 which since its creation in 2008 has endeavoured to contribute to the recognition of a sectoral innovation system which may lead to regional and transnational policies that promote innovation for the sake of sustainability Presenting cutting edge research on how fashion contributes to the common good the book covers core topics including the circular economy social innovation fashion law and sustainability sustainable finance and education for sustainability offering a meaningful contribution to the UN Sustainable Development Goals

**New Trends in Mechatronics and Materials Engineering** Elwin Mao, Xi Bing Li, 2012-01-24 Selected peer reviewed papers from the 2011 International Conference on Mechatronics and Materials Engineering ICMME 2011 December 10 12 Qiqihar China

**Recent Trends of Law & Regulation in Korea**, 2016

*Global Strategic Management* Philippe Lasserre, Felipe Monteiro, 2022-11-03 Seamlessly blending academic rigour and practicality this textbook provides an introduction to global business strategy Assuming a born global perspective Global Strategic Management is supported by ample pedagogical features including numerous case studies and examples featuring both established multinationals and unknown SMEs from across the globe The book takes an applied approach to global business strategy emphasising functional parts of international business managing marketing operations HR and finance The text has been widely updated to incorporate the impacts of the Covid 19 pandemic such as work from anywhere and deglobalization New to this fifth edition is increased material on sustainability and corporate social responsibility including discussion of climate change NGOs and sustainable development goals Subjects such as the impact of technology cryptocurrency and global strategy in the digital space are discussed in more detail while the conflict in Ukraine is also considered

The 7th International Conference on Advances in Engineering and Management (ADEM) Gabriel Benga, Adrian Bebe Olei, Marius Criveanu, 2025-05-13 Selected peer reviewed full text papers from the 7th International Conference on Advances in Engineering and Management ADEM 2023 Selected peer reviewed full text papers from the 7th Conference Advances in Engineering and Management ADEM 2023 25 27 October 2023 Drobeta Turnu Severin Romania

**Economics: Trends and Issues, a Book of Reading** Scott Keyes,1952      **Environment Materials and Environment Management, EMEM2010** Zhen Yu Du,X.B. Sun,2010-06-07 Selected peer reviewed papers from the 2010 International Conference of Environment Materials and Environment Management EMEM 2010 will be held on July 24 25 2010 in Harbin China      *Engineering Materials, Energy, Management and Control* Zhihua Xu,Gang Shen,Sally Lin,2010-12-06 Selected peer reviewed papers of the 2011 International Conference on Engineering Materials Energy Management and Control MEMC 2011 January 22 23 2011 Beijing P R China      *Labour Market Trends* ,2003-04  
Technical News Bulletin ,1930      *Circular* Pennsylvania State University. College of Earth and Mineral Sciences. Experiment Station,1929      **Library Trends** ,1988      Trends ,1994      *Wastewater Treatment and Green Technologies* Gaanty Pragas Maniam,Abiodun Ayodeji Abioye,Dao Hua Zhang,Parames Chutima,2024-02-16 Special topic volume with invited peer reviewed papers only      *The Jersey Bulletin and Dairy World* ,1919      **Jersey Bulletin and Dairy Word** ,1919

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