

Disruptive Innovation and Sustainability: A meta-review

Summary

Disruptive innovation is the process of introducing new products or services that create a new market and eventually displace the existing market. Examining the dynamics of existing markets, identifying areas of disruption, and estimating the likelihood of the emergence of sustainable alternatives are typical components of this study. The purpose of this study is to give a meta-analysis of literature review publications on innovation and sustainability, providing a succinct and original assessment of major research lines in the field. The second contribution of the study is a critical examination of the substantive growth of the subject and the identification of research gaps that point the way for future study. Using the Web of Science database, pertinent publications are identified. To fulfill the objectives, a meta-analysis methodology is employed. We have attempted to conduct a literature review by presenting descriptive findings and a synopsis of pertinent publications.

Track: Innovation Track

Word Count: 1420

1. Introduction

Innovation is widely acknowledged to have a substantial influence on economic growth and the attainment of a sustained competitive advantage (Jiang and Liu, 2023). With the publication of "The Innovator's Dilemma" more than 20 years ago, Christensen introduced his theory of disruptive innovation, which has since been the subject of much discussion and application (Christensen *et al.*, 2018). There are several contending interpretations and counterarguments of this theory at present. Disruptive innovation is a popular concept in both academic and business circles (Martínez-Vergara and Valls-Pasola, 2020; Si and Chen, 2020), and businesses that successfully disrupt markets and are judged economically successful are often viewed as examples of "agile" effectiveness (Kivimaa *et al.*, 2021). Researchers and manufacturers alike are trying to figure out how to incorporate sustainability into business processes in light of sustainability's rising profile in the realm of business management (Rena, 2023). With this development in mind, sustainable innovation has been receiving a lot of focus as of late.

Due to the varied approaches adopted, there are multiple definitions of disruptive innovation. The process-based approach and the major characteristics-based perspective on disruptive innovation are the most common and generate the least amount of dispute. In this study, we use author Si & Chen (2020) core concept of disruptive innovation, which incorporates a broad spectrum of perspectives. The term "disruptive innovation" refers to a type of innovation in which a new product or service is introduced to the market despite being initially inferior to the ones offered by the incumbents in terms of the traits that mainstream customers value. Nevertheless, because of their superior performance attributes in low-end or new markets, these goods or services are able to attract and please the consumers in these markets. There is a subtle distinction between disruptive innovation and innovation. The process of offering new products or services that establish a new market and eventually disrupt the old market is disruptive innovation. In contrast, innovation is the process of introducing new and better goods, services, or processes. It might entail minor improvements to current products or services, or it can involve more drastic changes that result in the creation of totally new markets (Antonio and Kanbach, 2023).

2. Background of the study

The notion of disruptive innovation is becoming increasingly important for businesses as they attempt to build sustainable business models. There is a lot of research on the numerous dimensions and features of disruptive innovation and sustainability. Many of the works are empirical case studies, and very few studies have been published that seek to explain what is meant when the phrases innovation and sustainability are discussed or attempted to cross. A sustainability study on disruptive innovation focuses on understanding the potential for market disruption and the consequences for sustainability goals. This study often entails investigating the dynamics of existing markets, finding areas of disruption, and determining the likelihood of sustainable solutions emerging (Tebaldi *et al.*, 2018). Prior reviews argued over the concept's ambiguity and lack of predictability (Danneels, 2004; Markides, 2006; Yu and Hang, 2010). They concentrated on the causes of incumbent and entrant success and failure (Yadav *et al.*, 2023), the variables that impede or allow disruption (Mignon and Bankel, 2022), and the market impacts and management implications of disruptive offerings (Naveed *et al.*, 2023). Some of the findings in the literature review studies are inconsistent, while others lack comprehension of the field's complexity. As a result, we conduct this meta-review to consolidate the findings of prior literature studies and to highlight the gaps that need to be filled by future researchers.

3. Objectives of the study

The objectives of this article are twofold. We begin with a meta-review of literature review papers on innovation and sustainability, offering a concise and novel summary of significant lines of investigation within the discipline. The meta-review strategy was chosen because it is an excellent method for synthesizing findings from earlier literature review papers on the subject, so giving 'an effective way to grasp the current quo' (Jiang and Messersmith, 2018). The study's second contribution is to critically examine the field's substantive growth and identify gaps to give future research paths.

4. Research Methodology

This research follows the Paulet et al. (2021) approved meta-review methodology. Meta-reviews are used to summarize and synthesize the findings of multiple literature reviews, allowing researchers to see patterns and locate unexplored areas more specifically. We conducted our study in three steps, the first of which was to discover keywords relevant to innovation and sustainability research from previous papers published in the area (Ghobakhloo *et al.*, 2021). Using the Web of Science database, we retrieved a total of 1756 results using the Boolean operators TI= ((Innovation OR Eco-innovation OR "Green innovation") AND (Sustainabl*) OR ("disruptive innovation")). We then narrowed the scope to only include papers from journals devoted to business, management, economics, environmental studies, and social issues, and were left with 414 articles.

In the second phase, we narrowed our focus to a select group of 38 recently published reviews. Fifteen more articles were disqualified during the final stage of the screening (the title and abstract) because they were either not systematic reviews but rather conceptual articles, or because they discussed innovation but not sustainability, or vice versa. There are a total of 23 review articles included in the final analysis. For a summary see figure 1.

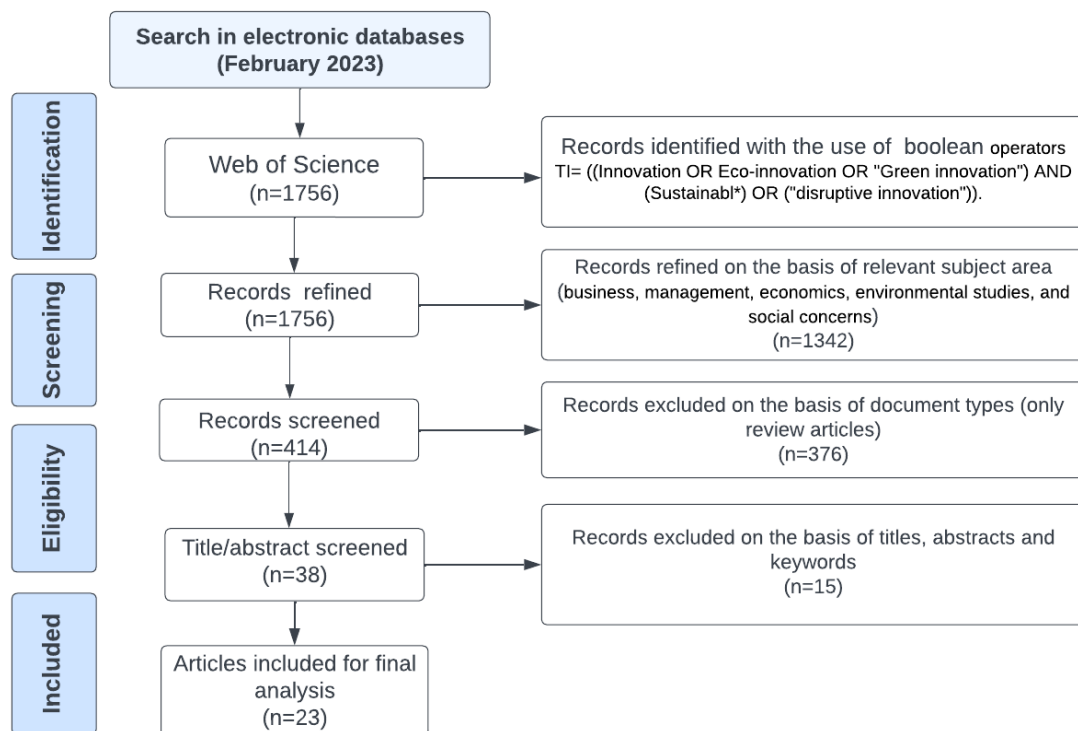


Figure 1. PRISMA Diagram

5. Descriptive overview (table and graph)

Table 1 provides a detailed summary of the 23 literature review papers. As shown in Table 1, reviews on sustainable innovation have appeared in both single-discipline and multi-discipline journals. In light of this, review authors used a variety of ways to locate and incorporate manuscripts. This variance in search keywords and journal inclusion criteria between reviews has, unexpectedly, resulted in a wide variety of findings.

Table 1. Descriptive overview of the literature

Title	Author	Journal	Aim of the review	Database(s) accessed	Years included	Inclusion criteria	Number of papers included	Applied search terms
Clarifying the disruptive innovation puzzle: a critical review	(Martínez-Vergara and Valls-Pasola, 2020)	European Journal of Innovation Management	This study provides a theoretical foundation for the word "disruptive" and the complexity of "disruptive" innovation by thoroughly evaluating a thorough evaluation of the literature on the topic. The purpose of this research is to draw connections between the scattered findings on disruptive innovation's process in order to pinpoint the causes of the innovation's disruptive impact.	Web of Science	1964-2017	Peer-reviewed journals of relevant subject areas	67	“disrupt* innonvat*”
Disruptive innovation from a process view: A systematic literature review	(Petzold <i>et al.</i> , 2019)	Creativity and Innovation Management	The study examines how disruption is perceived in the literature and what is disrupted. Adding 'behaviour, practises, and cultural models' to previously mentioned aspects, i.e., markets and business models, rules and policy, and actors and networks, four non-technical dimensions of disruption are identified.	Web of Science and SCOPUS	1995-2016	Peer-reviewed journals	54	“disruptive innovat*” OR “disruptive technolog*” and “disruptive innovat*” OR “disruptive technolog*” AND “business model*”
Moving beyond disruptive innovation: A review of disruption in sustainability transitions	(Kivimaa <i>et al.</i> , 2021)	Environmental Innovation and Societal Transitions	This article reviews and analyses the disruptive innovation theory's 20-year-old literature to better understand the notion and	Web of Science	2010-2020	Peer-reviewed journals	47	“disrupt*” AND “sustainability transition*” OR “socio-technical transition*” OR “sociotechnical transition*” OR “societal transition*”
A literature review of disruptive innovation: What it is, how it works and where it goes	(Si and Chen, 2020)	Journal of Engineering and Technology Management		Web of Science	1995-2019	SSCI journals	207	“disruptive innovation”, “disruption” and “disruptive”

			resolve prior research's conflicts and problems.					
Industry 4.0, innovation, and sustainable development: A systematic review and a roadmap to sustainable innovation	(Ghobakhloo <i>et al.</i> , 2021)	Business Strategy and The Environment	The current study fills a knowledge gap regarding which digital transformation and Industry 4.0 technologies enable sustainable innovation in manufacturing by developing a strategic roadmap that explains how businesses can leverage Industry 4.0 technologies to introduce sustainability into innovative practices.	Scopus, Web of Science and Google scholar	N/A	Peer-reviewed journal using forward and backward screening	70	“Industry 4.0”, “Industrie 4.0,” and “fourth industrial revolution,” and the “innovation” and “innovative”
Understanding sustainable innovation: A systematic literature review	(Cillo <i>et al.</i> , 2019)	Corporate Social Responsibility and Environmental Management	The purpose of this research is to harmonise economic, environmental, and social aims in innovation activities by systematically identifying and critically reviewing the literature on sustainable innovation.	Web of Science	1995-2018	Peer-reviewed journals	69	[“Sustainable innovation*”], [“Innovation” and “triple bottom line”], [“innovation” and “hybrid organization*”], [“innovation” and “benefit organization*”], [“innovation” and “hybrid corporation*”], [“innovation” and “benefit corporation*”], and [“sustainable innovation”] (“sustainab*” OR “triple bottom line” OR “triple layered” OR “TBL” OR “ecolog*” OR “social” OR “circu- lar*” OR “circular economy” OR “closed-loop” OR “cradle to cradle” OR “resource recircularization” OR “green*” OR “green manufacturing” OR “green production” OR “clean*” OR “clean manufacturing” OR “clean production” OR
Sustainable Business Model Innovation: An Umbrella Review	(Sinkovics <i>et al.</i> , 2021)	Sustainability	The objective is to identify the many expressions of sustainable business model innovation and to organize its antecedents and results into a unified framework.	Web of Science	1990 - 2021.	Peer-reviewed journals	57	

What Sustainable Development Goals Do Social Innovations Address? A Systematic Review and Content Analysis of Social Innovation Literature	(Eichler and Schwarz, 2019)	Sustainability	The purpose of the study is to undertake a systematic literature review to compare and contrast the definitions used, followed by a content analysis to identify the social or environmental problems addressed and the innovators engaged.	WoS and EBSCO	2003-2017	Downloadable peer-reviewed articles	255	"sustainable development goals" OR "SDGs" OR "botmodel*" OR "business de-sign*" OR "business practice*" OR "business archetype*" OR "enterpr* model*" OR "en- terpr* design*" OR "enterpr* practice*" OR "enterpr* archetype*" OR "organi* model*" OR "organi* design*" OR "organi* practice*" OR "organi* archetype*" OR "corporat* model*" OR "corporat* design*" OR "corporat* practice*" OR "corporat* archetype*" OR "firm model*" OR "firm design*" OR "firm practice*" OR "firm archetype*" OR "venture model*" OR "venture design*" OR "venture practice*" OR "venture archetype*") AND TS= ("innovat*" OR "value*" OR "transform*" OR "chang*" OR "novel*" OR "new*"))
Research Profiling for Responsible and Sustainable Innovations	(Sudolsk a <i>et al.</i> , 2019)	Sustainability	The purpose of this study is to map the research output associated with the notions of responsible and sustainable innovations	SCOPUS	2003-2018	N/A	1083	'responsible innovation' or 'sustainable innovation'

Lessons for Responsible Innovation in the Business Context: A Systematic Literature Review of Responsible, Social and Sustainable Innovation Practices	(Lubberink <i>et al.</i> , 2017)	Sustainability	using the research profiling approach (general research profiling, subject area profiling and topic profiling). This study seeks to locate, evaluate, and integrate empirical findings reported in studies on social, sustainable, and responsible innovation strategies in the context of business. An improved framework for responsible innovation in the corporate setting was derived from a synthesis of the included publications. This study seeks to comprehend the present state and progress of sustainable business model innovation research by a bibliometric analysis of the available literature and the incorporation of the antecedents-decisions-outcomes framework.	SCOPUS, Web of Science and Abi/Inform	2000-2016	Peer-reviewed journals of relevant subject areas	72	N/A
Sustainable business model innovation literature: a bibliometrics analysis	(Pan <i>et al.</i> , 2022)	Review of Managerial Science	The purpose of this study is to analyse the literature on external collaborations in green product innovation in order to investigate the drivers, inter-organizational variables, and intra-organizational factors for such collaborations.	Web of Science	1900–2020	Peer-reviewed journals	4509	“business model innovation” AND “sustainable OR sustainability”
Achieving Sustainable Development by Collaborating in Green Product Innovation	(Melander, 2017)	Business Strategy and The Environment	The purpose of this study is to analyse the literature on external collaborations in green product innovation in order to investigate the drivers, inter-organizational variables, and intra-organizational factors for such collaborations.	Web of Science	1990-2016	SSCI journals	67	Sustainable, green open innovation, collaborative innovation, collaborative product development, collaborative R&D, collaborative NPD supplier collaboration, customer collaboration, environmental product development collaboration, environmental design collaboration, green product innovation collaboration, environmental sustainable

The evolution of sustainable innovation: from the past to the future	(Afeltra <i>et al.</i> , 2021)	European Journal of Innovation Management	The purpose of this study is to organise the scientific literature on Sustainable Innovation as a broad subject in order to identify the most important researchers and their substantial contributions, as well as current research paths.	SCOPUS	All years available in the database	Peer-reviewed journals	1108	innovation collaboration and eco-design collaboration “sustainable innova*”; “sustainability oriented innova*”; “innova*sustainability”; “green innova*”; “environmental innova*”; “eco*innova*”; “green product innova*”; “green process innova*”
Sustainable Supply Chain and Innovation: A Review of the Recent Literature	(Tebaldi <i>et al.</i> , 2018)	Sustainability	The purpose of this article is to examine how innovation and sustainability are incorporated into the larger context of supply chains.	SCOPUS and Web of Science	1996 to 2014	Peer-reviewed journals	122	“sustainability”, “innovation” and “supply chain”
A framework for sustainable technological innovation capability: a research and policy direction	(Dhliwayo and Chebo, 2022)	European Journal of Innovation Management	The purpose of this research is to investigate the dimensions of technical innovation capability (TIC) and associated elements from the standpoint of sustainability. The primary purpose of this review is to determine the scope, growth trajectory, and regional distribution of the innovation in sustainable development literature.	SCOPUS and Web of Science	2010-2022	Articles and review articles published in English	64	TIC OR digital innovation capability OR technological entrepreneurial capability AND sustainability OR sustainable OR continuity
A Bibliometric Review of the Knowledge Base for Innovation in Sustainable Development	(Vatananant-Thesenvitz <i>et al.</i> , 2019)	Sustainability	Sustainable development and innovation are growing study fields. The review's major goal is to disclose sustainable development literature's innovative size, growth trajectory, and regional distribution.	SCOPUS	1985-2018	Peer-reviewed journals	1690	("Sustainable Development" OR "Sustainable Growth") AND (innovat*)

Sources of information on sustainable innovation: a citation-based systematic literature review and content analysis	(Naveed <i>et al.</i> , 2023)	Total Quality Management & Business Excellence	Furthermore, the aim is to examine the study domain's intellectual structure, thematic focuses, and important publishing journals, authors, and documents. The purpose of this research is to give complete insights into sustainable innovation research. To that purpose, the researchers carried out a citation-based systematic literature review (SLR) to identify emerging trends in sustainable innovation research.	SCOPUS	1998-2019	Articles published in English	747	‘sustainability innovation’ OR ‘sustainability driven innovation’ OR ‘green innovation’
Sustainable business models and innovation strategies to realize them: A review of 87 empirical cases	(Mignon and Bankel, 2022)	Business Strategy and The Environment	The purpose of this study is to address the topic of developing new business models to meet sustainability challenges by relying on a variety of recently published empirical studies and evaluating 87 cases where organizations have undertaken business model innovation to attain sustainable business models.	Web of Science	2010–2020	N/A	87	“sustainable business model” OR “sustainable business models”
The Approach of Value Innovation towards Superior Performance, Competitive Advantage, and Sustainable Growth: A Systematic Literature Review	(Hajar <i>et al.</i> , 2021)	Sustainability	This study tries to address the research question, "How can value innovation be a method for better performance, competitive advantage, or sustainable growth?"	ScienceDirect, Emerald, SCOPUS, Web of Science, and Google Scholar	1997-2021	Peer-reviewed journals	73	“value innovation” or “blue ocean strategy”

Towards a Conceptual Framework of Sustainable Business Model Innovation in the Agri-Food Sector: A Systematic Literature Review	(Barth <i>et al.</i> , 2017)	Sustainability	The purpose of this study is to improve knowledge of sustainable business model innovation in the agri-food industry in terms of theoretical and practical approaches to sustainability, as well as their degree of complexity and maturity.	Web of Science, Scopus, ABI/Inform, Emerald, Science Direct, Academic Search, Springer-Link, Jstor, Sage, and Agricola	1990-2014	Peer-reviewed journals	570	N/A
A meta-analysis of sustainable supply chain practices and performance: the moderating roles of type of economy and innovation	(Yadav <i>et al.</i> , 2023)	International Journal of Operations & Production Management	This study offers a quantitative meta-analysis that tries to find relationships between sustainable supply chain practices (SSCPs) and sustainability performance (SP) based on correlations discovered in previously published empirical investigations.	SCOPUS and Web of Science	2003-2022	Peer-reviewed journals of relevant subject areas	64	‘Inter and intra organizations green practices’ OR ‘supply chain sustainability’ OR ‘manufacturing supply chain’ OR ‘servicing supply chain’ AND ‘Internal Green Management’ OR ‘Green Production’ OR ‘Eco-Design’ OR ‘Green Purchasing’ OR ‘Green Packaging’ OR ‘investment recovery’ OR ‘reverse logistics’ OR ‘corporate social responsibility’ OR ‘diversity management’ OR ‘community development’ OR ‘safety management of workers’ AND ‘firm performance’ OR ‘firm value’ ‘sustainable performance’ or ‘economic performance’ or ‘environmental performance’ OR ‘social performance’ OR ‘social outcomes’ OR ‘sales growth’ OR ‘competitive advantage

How and Why Do Social and Sustainable Initiatives Scale? A Systematic Review of the Literature on Social Entrepreneurship and Grassroots Innovation Digital Entrepreneurship and its Role in Innovation Systems: A Systematic Literature Review as a Basis for Future Research Avenues for Sustainable Transitions	(van Lunenburg <i>et al.</i> , 2020)	Voluntas	This literature study seeks to address the question, "How and why can social and sustainable projects scale?"	Web of Science	N/A	N/A	133	'bottom-up initiatives', 'grassroots innovation' AND 'social entrepreneurship'
	(Satalkina and Steiner, 2020)	Sustainability	This study aims to develop a thorough comprehension of the hybrid notion of digital entrepreneurship and its role in the evolution of the innovation system.	Harvard Hollis and Web of Knowledge	2014-2018	Peer-reviewed journals of relevant subject areas	52	"digital entrepreneurship" and "digital business"

6. Summary (with table)

Table 2 depicts the summary of 23 literature reviews with their respective focus areas, key focus areas, authors, their contributions in the review field, and future research agendas (Paulet *et al.*, 2021). This table is in line with Table 1 in terms of similar papers but different specifications.

Table 2. Summary of content of disruptive innovation literature reviews

Author	Focus areas	Key topic areas	Contribution of review	Future Research Agendas
(Martínez-Vergara and Valls-Pasola, 2020)	Innovation, Business strategy, Disruptive innovation, Customers, Disruptive technology	Behaviors of incumbents, entrants, and customers in disruptive innovation process	This critical literature study studied the behaviors of low-end, new-market, and mainstream customers to determine why they prefer DIs.	This study promotes future research and advances this theory, as many academics from many disciplines struggle to detect and understand this form of innovation to answer why corporations should focus on customer satisfaction rather than profit maximization.
(Petzold <i>et al.</i> , 2019)	Disruptiveness, Occurrence, Events and actions	The DI process comprises three phases: initiation, niche market, and mainstream market. Each phase is shaped by (1) the entrant's view and expectations of the opportunity and innovation, (2) its strategy, and (3) its use of enabling technologies and factor markets.	Existing literature presents the events and activities leading to a DI as a succession of steps, ignoring the DI process's dynamism.	This study calls for process-oriented research to further investigate the roles of timing, synchronization, and flexibility in identifying and managing DI, as well as to address additional elements that affect the process and propose additional research from these angles to investigate the dynamics of the DI process.
(Kivimaa <i>et al.</i> , 2021)	Sustainability transitions, Disruption, Disruptive innovation, Destabilization	The review displays two business model-disruptive system change relationships: (a) technology innovation disrupting business models and (b) business models disrupting the market system.	This review study argues that disruption can be useful when transitions become more urgent, but it also has complications and negative effects that must be considered while managing transitions. A more cohesive and complete definition of disruption highlights the concept's continuous political relevance and prepares for its complex and diverse effects.	Based on this research, disruption that may speed sustainability transitions can be fostered by coordinated actions in several dimensions, such as encouraging and enabling new business models and marketplaces, tying to legislation and policy reforms; encouraging or rewarding practices that are more sustainable and socially just; Allowing new actors and networks to become part of how, e.g. food or energy, is provided, and distributing benefits more broadly; Encouraging the wider distribution of power and ownership of

				resources and infrastructure; and Thinking of ways to disrupt behavior and practices by nudging or rewarding
(Si and Chen, 2020)	Disruptive innovation, Basic concept, Practical significance, Predictability, Influence factors	Individual level and firm level factors influencing disruptive innovation	This paper attempted to conduct a thorough evaluation of the literature on disruptive innovation theory in the aim of resolving these issues and encouraging the theory's further growth.	Future research suggests to establish generic scales or models of disruptive innovation to enable quantitative analysis, improve theoretical predictability, and improve innovation study and management.
(Ghobakhloo <i>et al.</i> , 2021)	Digitalization, Green product, Industry 4.0 Technologies, Stakeholder engagement, Sustainability, Sustainable development, Sustainable innovation	Advanced manufacturing competency (AMC), Green absorptive capacity development (GACD), Green process innovation capacity (GPSIC), Green product innovation capacity (GPTIC), Inter-functional collaboration and learning (ICL), New product development competency (NPDC), Product life-cycle management capability (PLMC), Sustainable innovation orientation development (SIOD), Sustainable partnership and collaboration (SPC), Sustainable talent management (STM), Value chain integration (VCI)	The paper contributes in the research field by identifying Industry 4.0's sustainable innovation functions using a content-centric survey of the literature and identifying causal linkages among functions discovered via interpretive structural modelling (ISM).	Future research should examine how technological, organizational, and environmental factors affect Industry 4.0's sustainability in corporate and socio-regional contexts.
(Cillo <i>et al.</i> , 2019)	Sustainable development, Sustainable innovation, Systematic literature review	Three key perspectives are internal managerial, external relational, and performance evaluation	The study synthesizes and classifies recurring obstacles and prevalent approaches to reconcile economic, environmental, and social goals in innovative activities by methodically identifying and critically reviewing	Future studies may contribute to the discussion on how scholars assess sustainable innovation enterprises' performance.

			the literature on sustainable innovation.	
(Sinkovics <i>et al.</i> , 2021)	Sustainable business model innovation, Business model, Umbrella review, Systematic literature review, Sustainability, Circular economy, Sharing economy, Social business, Lean business model	The integrative framework provides a list of the macro, meso, and micro-level antecedents of innovative sustainable business models, along with their outcomes.	This paper revealed tensions between socially directed manifestations and ecologically focused manifestations.	Further study is required to determine the circumstances that promote the design and implementation of sustainable business model integration.
(Eichler and Schwarz, 2019)	Social innovation, Systematic review, Content analysis, Social entrepreneurship, Sustainable development goals (SDGs)	Utilizing a content analysis, our study reveals that five factors: (1) social need, (2) innovative element, (3) implementation and execution, (4) improvement, and (5) relationships and collaborations—are crucial to the success of a social enterprise.	This study indicates that SIs in underdeveloped countries focus differently. Our findings show that social entrepreneurs, NGOs and non-profits, public institutions, civic society, corporations, and social enterprises develop and implement SIs.	Future studies should investigate how indirect impacts and interactions vary between industrialized and developing nations.
(Sudolska <i>et al.</i> , 2019)	Responsible innovation, Sustainable innovation, Bibliometrics, Research profiling	(1) searching for the business context of responsible innovations; (2) exploring the networked nature of the concept in the business context with a focus on value chain issues; and (3) examining the relationship between disruptive and emerging technologies (such as robotics, artificial intelligence, synthetic biology, etc.) and society.	The notions of responsible and sustainable innovations address contemporary issues faced by governments, enterprises, and non-governmental organizations. Due to their multidimensionality, the concepts of responsible innovations correspond to research topics regarded as fundamental in a variety of disciplines.	The replication of the study in the future is recommended to observe changing trends and shifts in the research field over time.
(Lubberink <i>et al.</i> , 2017)	Responsible innovation, Social innovation, Sustainable innovation, Innovation output	The study compares the present concept of Responsible Innovation to social and sustainable innovation in terms of inputs, processes, outputs, and social impacts.	The main contention is that Responsible Innovation differs from social- and sustainable innovation because it (1) considers possible negative effects of innovation, (2) includes a mechanism for responding to uncertainty associated with innovation, and	Future study could investigate what significance these various normative anchor points play in the business setting for innovation.

			(3) achieves democratic governance of innovation.	
(Pan <i>et al.</i> , 2022)	Bibliometric analysis, Innovation, Sustainability, Sustainable business model innovation	The findings in this study indicate that the development of SBMI research is positive	The main characteristics of SBMI research are first shown using Web of Science data and bibliometric methods to indicate publication productivity and citations. Then, countries/regions, institutions, and authors' collaboration networks are drawn.	Future study requires deeper collaboration across institutions and authors to investigate the internal causes and design of SBMI, in addition to other to-be-developed issues.
(Melander, 2017)	Green innovation, Eco-design; Sustainable development; Collaborative innovation; Environmental policy	Customers and suppliers are the most prevalent collaborators. Drivers include economic conditions, regulations, customer demand, competitiveness, and company performance. Inter-organizational collaboration aspects include partner selection, relationship management, information access, and agreements.	The review identifies gaps in the research about collaborative GPI's drivers and inter- and intra-firm aspects.	Collaborators could also be compared by investigating where in the innovation process partners contribute and what their main contributions consist of.
(Afeltra <i>et al.</i> , 2021)	Eco-innovation, Environmental innovation, Green innovation, Sustainable innovation	There are five main themes: (1) "the role of Regulation, Market, and Technology"; (2) "Eco-Innovation determinants and firm-specific factors and the debate between corporate environmental performance and corporate financial performance"; (3) "Green innovation and internal and external drivers"; (4) "The strategic determinants of green (non-green) innovation"; and (5) "The interplay between policy,	Using bibliometric approaches, this study is a first attempt to reveal the evolution of knowledge in the field of sustainable innovation.	Future research directions are suggested in the field of sustainable innovation to collaborate economically and in the area of policy implications.

		regulations, and green innovation."		
(Tebaldi <i>et al.</i> , 2018)	Innovation, Sustainability, Supply chain, Systematic literature review	First, the descriptive aspects of the published papers—year, journal, research methodology, industrial field, and country—are evaluated, followed by the thematic ones—key themes of the innovation process, types of innovation found, their newness, dimensions, and main ideas that developed.	The paper presents a conceptual framework contributes to the desire in the literature to develop concepts and theories for examining and comprehending how the application of sustainability in supply networks occurs.	The role of consumers in the supply chain as a catalyst for sustainable innovation has not been well addressed. Systematically, sustainable consumption should be investigated, as a future research agenda.
(Dhliwayo and Chebo, 2022)	Competitive advantage, Innovation capability, Performance, Sustainability, Technology	This study examines the numerous studies conducted on the topic of sustainable TIC in order to demonstrate the subject's progression and provide a thorough grasp of it.	The study shows the primary dimensions and essential factors connected to sustainable TIC, advancing the concept. The most addressed ICs are process, product, marketing, R&D, and knowledge.	Future studies should examine how TIC intensifies performance and sustainability factors. Future researchers should also address neglected externalities like social responsibility and the environment to create a sustainable TIC.
(Vatananan-Thesenvitz <i>et al.</i> , 2019)	Bibliometric review, Innovation, Science mapping, Sustainability, Sustainable development, Sustainable development goals (SDG)	In this review, we used scientific mapping to find key authors, publications, and journals on ISD, disclose the knowledge base's origin, and better grasp the research field's intellectual structure.	The evaluation recognizes approximately 30 years of knowledge. This review found that sustainable development literature originated in environmental research and strongly aligns with UN sustainable development goals (SDGs).	Future research suggests how innovations and research in emerging markets can assist promote policy change and educate consumers and companies on sustainable production and consumption.
(Naveed <i>et al.</i> , 2023)	Citation analysis, Sustainable innovation, Systematic literature review	While conducting content analysis (CA) of the most influential papers to discover research qualities such as sustainable innovation principles, unit of analysis, data, methodology, and research themes.	The article demonstrates that, among numerous issues, the sustainable business model (SBM) has received the greatest attention in the top-100 most influential papers, indicating that the SBM poses a significant challenge to sustainable innovation methods	Future scholars in the field of quality management should seek to comprehend current trends and investigate existing gaps in sustainable innovation research.

			and quality management.	
(Mignon and Bankel, 2022)	Boundary spanning, Business model, Experimentation, Innovation, Strategy, Sustainability	Four types of SBMs have been studied repeatedly in the literature, according to the review: SBMs (1) that imply efficiency improvements, (2) that are based on new ways to make the business sustainable, (3) that have a stronger orientation towards society and/or the environment, and (4) that are born sustainable.	The review helps managers and researchers understand the relationship between business model innovation and sustainable business model concepts by providing a portfolio of solutions.	For future research, the scholars assert the need for clarity in the application of the BMI and SBM concepts and advise scholars to view them as two independent processes or objectives.
(Hajar <i>et al.</i> , 2021)	Value innovation, Blue ocean strategy; Innovation	The role of value innovation in the performance, competitive advantage, and sustainable expansion of a company was one of the recurring themes of this systematic review. Hence, this study provided an in-depth comprehension of how value innovation can significantly impact enhancing a company's performance, productivity, resource competency, and long-term profitable growth.	This study contributes to the existing knowledge by offering an integrative framework that summarizes the findings of the literature and addresses theme classifications of the value invention process.	Future research will empirically test the proposed conceptual framework that examines value innovation's effects on firm performance, competitive advantage, and sustainable growth through customer satisfaction and sustainable growth.
(Barth <i>et al.</i> , 2017)	Business model innovation, Agri-food, Farmers, Entrepreneurship, sustainability	There are three fundamental theoretical perspectives: technological orientation, organizational orientation, and strategy orientation.	This study presents and proposes a conceptual framework for sustainable business model innovation that offers both practical and theoretical recommendations for the creation of sustainable innovations.	To further expand this field, further empirical research that builds on established theories and frameworks is required.
(Yadav <i>et al.</i> , 2023)	Corporate social responsibility, Institutional-based view, Meta-analysis,	This study presents a quantitative meta-analysis designed to identify SSCP-SP	This study helps operations managers and policymakers understand how	Future research is needed in the field of meta-analysis of

	Natural resource-based view, Sustainable performance	interactions based on correlations discovered in previously published empirical studies.	control variables like ISO certification, type of economy, innovation approach, and data gathering method affect SSCP and SP for business operations. ISO regulations and hypotheses are examined using the natural resource-based view (NRBV) and institutional-based view (IBV).	sustainable performance
(van Lunenburg <i>et al.</i> , 2020)	Scaling, Social and sustainable initiatives, Social impact, Social entrepreneurship, Grassroots innovation	This thorough review of the literature contributes to the literature on the scaling of local initiatives by merging and analyzing the similarities and contrasts between the literatures on grassroots innovation, bottom-up initiatives, and social entrepreneurship.	This article shows that actors need a facilitating framework, the willingness and ability to grow, and a strategy to improve commercial distribution or policy effect.	Further exploration of the framework in a particular branch or topic, such as social efforts in the healthcare industry or sustainable initiatives in the food industry. This will help to investigate the framework's various relationships and dynamics in greater depth.
(Satalkina and Steiner, 2020)	Digital entrepreneurship, Innovation system, Digital transformation, Sustainable transition	The paper distinguishes the determinants of digital entrepreneurship within three core dimensions of the innovation system: the entrepreneur (including behavioral, competence, and mentality patterns, as well as personal outcomes and consequences of entrepreneurial activity), the entrepreneurial process (including digitalization in organizational management processes, transformations within strategic and operability processes), and the innovation system	The analysis assisted in identifying the distinctions between digital entrepreneurship and conventional business procedures.	The results suggest further research in three areas: empirical research on digitalization's impact on the socioeconomic system, analysis of vulnerabilities in specific socioeconomic systems caused by digitalization, and transdisciplinary and system science techniques in management.

		(which encompasses, among others, the influence that external infrastructure and institutions have on digital entrepreneurship development).		
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7. Future research

We have now completed a meta-review of 23 publications. There were other future studies that were discussed in the existing literature. We have some potential study avenues in order to expand the literature. In this field of study, empirical studies using the most precise models are required. Although much has been accomplished in the field of sustainability, several aspects remain unexplored, such as how disruptive innovation affects poverty levels in developing nations, its function in infrastructure development, and its ability to alleviate inequities across sectors. More research on how disruptive innovation affects job creation and distribution can help to evolve the concept of disruptive innovation in the economy.

8. Conclusion

At this stage, we have completed our work by thoroughly researching the literature in order to address critical issues about disruptive innovation. We intended to provide a meta-review of 23 literature review publications on innovation and sustainability, providing a brief and innovative summary of major lines of inquiry within the discipline. Our study's major focus is depicted in Table 1 (Descriptive overview of the literature) and Table 2 (Summary of content of disruptive innovation literature review). Disruptive innovation is an emerging concept which has a significant impact on policymakers, business firms, and authorities. Comments and suggestions on all aspects of the study are welcome, from critiques of the literature and research methodology to preliminary findings and conclusions.

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