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# DIGITALIZATION MANAGEMENT

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# DIGITALIZATION IN BUSINESS MANAGEMENT



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### ABSTRACT

Rapid innovations in the field of technology have become a driving force in ensuring a new management approach and sustainability, especially in companies. Namely, this rapid transformation has made it necessary for managers with technical knowledge and equipment to come to the fore in company management and use technological infrastructure and systems in all companies. While the managers of the classical period were not allowed to make decisions, today, thanks to the specialized communication networks of all units, the ease of information flow has been the most critical factor in developing joint decision-making. In addition, the fact that the managers made technological facilities, tools, and equipment applicable and usable in the companies significantly changed the competitive sustainability face. The use of technology and digitalization in business management and all other units has brought a new digital perspective to business. From the beginning of the industrial revolution to Industry 5.0, the last point reached digital transformation plans are applied as a new road map for the future in units such as marketing, accounting, entrepreneurship, and supply chain in management. In this research, digitalization studies in management marketing, accounting, human resources, entrepreneurship, and supply chain management in 2022 were examined in the literature. This research emphasized that digitalization is indispensable in these areas and has significant and beneficial effects in providing positive performance.

Keywords: Digital, Management, Technology, Industry 5.0.

#### **1. INTRODUCTION**

How to be best at the beginning of management science? While focusing on a single goal, emphasis was placed on individual needs that push employees to be successful in the workplace (Hussain et al. [1]). With the development of digital technologies, the importance of digital literacy is preferred by companies with technology-oriented business methods. The main target is having a strong education and learning process in institutions and having human resources with technological knowledge, skills, and equipment (Atay et al. [2]). At the same time, companies caused the collapse of business models and companies due to disruptive innovation; on the other hand, the rise of innovative companies with business models revealed their competitive advantages in the last ten years (Caputo et al. [3]).

Today, the business world has increased with the increase in global competition. Now, industrial markets have started to create new markets by crossing borders. It develops new digital technologies and models to provide competitive advantage, sustainability, and business development in global markets. In today's competitive business world, production operations have adopted advanced production technologies such as 3D printing and rapid prototyping and benefited from the Internet of Things for information and analysis. The enterprises aim to optimally provide customer demands, quantity, quality, and price in today's turbulent competitive and environment (Agrawal & Narain [4]).

Digitalization allows organizations to collaborate between companies, suppliers, customers, and employees and create various new service and product offerings (Möller et al. [5]). Companies must reconsider strategic business model development components to implement digital transformation and dynamic capabilities. It should integrate these capabilities into the reality of digital platforms (Monge & Soriano [6]). Therefore, digital transformation is an emerging topic, and more research is needed (Imgrund et al. [7]). This research aims to shed light on the future by considering the digital transformation processes carried out in various departments that comprise the whole business management.

This research deals with the issue of digitalization in management. Literature studies carried out in 2022 within the scope of marketing, accounting, human resources, entrepreneurship, and supply chain management which are the most critical units of enterprises, were examined.

# 2. INDUSTRIAL REVOLUTIONS AND DIGITALIZATION

Technological developments have led to a rapid increase in web technologies. In the training of the employees of the institution, besides the web-based training, the technical supports of the modern age have been utilized, very different from the traditional training methods such as distance education and electronic education (Atay et al. [2]). Digital ecosystems are not only interesting for the information technology and software industries, but digital technologies are becoming more and more critical in all industries (Monge & Soriano [6]). Enterprises have been forced to accelerate their digital transformation to compete and ensure the sustainability of many companies during the Covid-19 process (O'Brien [8]).

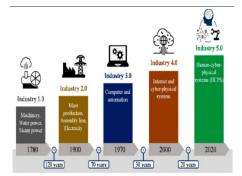
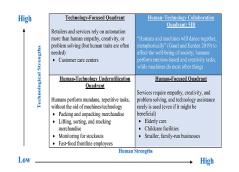


Figure 1: Industrial change processes (Chen et al. [9]).

The industrial revolution, the first industrial revolution, had radical effects on the manufacturing industry in the mid-1700s with the development of steam engines and by enabling the production of these machines and factories. The second industrial revolution harnessed the power of electricity. At the end of the 1800s, with the rapid production of massproduction products, people's ideas and production processes began to develop in different dimensions. In the early 1900s, the 3rd Industrial Revolution started the digital age. The establishment of information, distribution, and storage networks with main computers and the gathering of producers and consumers connected to the internet with personal computers were ensured. The fourth industrial revolution began in the 21st century when machines and devices provided unlimited information to people fastest and most effectively (Noble et al. [10]). Technological developments from Industry 4.0 to Industry 5.0, along with the industrial change processes from the past to the present technological innovations such as intelligent materials, drone technology, artificial intelligence technology, internet of things, and quantum computing are moving towards 5.0 at an incredible speed (Chen et al. [9]).

### **3. DIGITALİZATION IN MANAGEMENT**

Management developed more than 100 years ago in the 21st century. The industrial age continues to exist in the industrial age with the new paradigm of specialization, hierarchy, and control. 21st-century organizations face unique challenges thanks to the accelerating pace of technology, digitalization, and modernization (Akmaeva et al., [11]).



**Figure 2: 5.** Industrial Revolution (5.0) maximizing human and technological powers.

Taking a themed fifth industrial revolution to the next level is essential to creating it with the synergy of human and technological powers (Figure 2). (Mende and Noble, [12]). In recent years, companies have created a digital technology portfolio such as artificially intelligent systems, the Internet of Things, the cloud, big data, and intelligent transportation system (Cardinali & Giovanni, [13]).



Figure 3. Digital transformation in business https://www.i-scoop.eu/.

DT in companies consists of many challenges, interactions, internal and external factors, and processes. Internet access, mobile devices, and the use of social media networks are the starting point of digital transformation for institutions to communicate (Dülek & Aydın, [14]). Digital transformation covers internal and external factors, technological developments, indusrties, stakeholders (Figure 3). Digitalization has been emphasized in flexible organization design and internet technology logistics and supply channel management to improve knowledge and the performance in organization in management (Monge & Soriano [6]). Digital management combines human judgment and business intelligence with the widespread use of digital data and technologies (Möller et al. [5]).

### 4. DIGITALIZATION IN MARKETING MARKETING MANAGEMENT

Today, institutions' digital transformation has revealed the necessity of creating the assets of the brands entering the market through the digital platform. Customers can meet products and services in the digital environment, with digital tools and platforms as the front face of brands, the speed and ease of two-way communication and feedback between the brands in the market and the consumer. The most critical issue in digital marketing is digital brand management. It is essential to create the brand's logo, aims, and messages on web pages and to design it online with mobile compatibility. In this way, it is the most effective method in providing customer demands and needs online, fast feedback, personalized brand messages, and brand loyalty. One of the essential purposes of digitalization in marketing should be to bring the communication and position of brand management to a critical level in digital environments and social media tools by making applications that accurately describe the brand identity and make the brand valuable (Dülek & Aydın, [14]).

| Author<br>Year               | Purpose  | Method  | Results  |
|------------------------------|--|---|--|
| 1.Riofrio et al. [15]        | Invastigating the durations<br>of market digitalization on<br>firm performance in Latin<br>America   | Practical   | Many Latin American firms<br>fail to reap the benefits<br>market digitalization and<br>performance drops as a<br>result. The appropriate way<br>to tackle market<br>digitalization is<br>implementing a restructing<br>strategy  |
| 2. Kaur et al. l. [16]       | It aims to discuss all<br>technologies that enable<br>Industry 4.0 in marketing<br>to ensure sustainability in<br>terms of social,<br>environmental, and<br>economic goals | Theoretical   | The study presented vital<br>recommadations for future<br>development and adoption to<br>create innovative<br>infrastructure in a sustainable<br>environment   |
| 3. Hua, [17]                 | What are the benefits and<br>complications of digitizing<br>online art transactions and<br>art viewing?  | Theoretical   | To keep up with the rapid<br>market changes, galleries and<br>auctions have allocated more<br>resources to digital platforms<br>and it is seen that cooperation<br>between regions and countries<br>has incressed in marketing and<br>exhibition activities in the art<br>industry                                   |
| 4. Kim Man&<br>Yang,[18]     | Discussion of incentives,<br>opportunities, threats, and<br>problems brought by<br>digital marketing<br>Malaysia.  | Theoretical   | Attention of companies to<br>apply digital marketing in<br>their business activities.<br>Development of digital<br>marketing and discussion<br>results in the Malaysian<br>context raises more awareness   |
| 5. Mostaghel et al.,<br>[19] | Understand how<br>digitization affects changes<br>retail business model<br>innovation dimenssions  | Based on bibliometric<br>and network analysis<br>and visualization, | Embedded digital<br>technologies power business<br>model retailers with the<br>agility to respond to dynamics<br>and volatile market situations  |
| 6. Lanenko et al.,<br>[20]   | Unique prospects caused<br>by new developments<br>marketing technologies   | Literature review   | The authors conclude that the<br>pandemic has had a strong<br>impact. The push for<br>digitalization of marketing<br>reveals several previously<br>hidden  |
| 7. Masrianto et al.,<br>[21] | The research offers a<br>digital marketing usage<br>index (DMUI) to evaluate<br>and improve a company's<br>digital marketing   | Theoretical   | They can improve their digital<br>marketing skills by increasing<br>the role of managerial<br>innovation, organizational<br>readiness and perceived<br>usefulnes. In addition,<br>business must realize digital<br>transformation by managing<br>the transformation and the<br>reinvention of new business<br>model. |

| 8. Qian et al., [22]        | Problems hindering the<br>sustainable growth of this<br>industry and it was adopted<br>in this study to analyze text<br>data from experts to<br>explore the reasons behind<br>this shortcoming | Literature review<br>Thematic analysis       | The findings are aimed to help<br>solve the education and<br>human resource issues in the<br>hospitality industry  |
|-----------------------------|--|--|--|
| 9. Terho, et al., [23]      | To adress the important<br>knowledge gaps in current<br>research this study is aimed<br>at costumer- centered B2B<br>markets. Relevant<br>marketing research flows.                            | Empriacelly, Theorical,<br>Literature review | The results of tis study offer<br>concrete managerial guidance<br>for developing and<br>implementing strategic digital<br>content marketing (DCM)<br>activities in a customer<br>centric way |
| 10. Shankar et al.,<br>[24] | A review of the literature<br>between 2000 and 2021 for<br>researchers and<br>practitioners  | Literature, review                           | Find it relevant to digital<br>marketing communucation<br>mostly at the national level for<br>specific, digital marketing<br>rather than the global level                                    |
| 11. Hagen et al.,[25]       | Websites and social media<br>pages, it has been<br>determined to what extent<br>the sources of PMPs affect<br>their adoption and<br>frequency of updating                                      | Theoretical                                  | Collective digital marketing<br>channels, the shopping area is<br>affected by the update<br>frequency of these channels<br>and the organizatonal<br>resources of the shopping<br>center      |
| 12. Setkute & Dibb,<br>[26] | To increase the<br>understanding of digital<br>marketing in B2B SMEs,<br>examine the barriers they<br>face and digital practices   | Literature review                            | How digital marketing is used<br>and benefits by small B2B<br>firms  |
| 13. Behera et al., [27]     | Cognitive Computing<br>Based Ethical Principles<br>for Improving<br>Organisational Reputation:<br>A B2B Digital Marketing<br>Perspective,  | Theoretical &<br>Lilterature review          | Enabled B2B Digital<br>marketing to showcase ethical<br>challenges and ethical<br>practices  |
| 14. Barykin et al.,<br>[28] | A new Pandemic the<br>transportation industry and<br>the application of<br>technologies related to<br>renovation and<br>modernization<br>transportation system<br>facilities                   | Literature review                            | The challenges inherent in<br>digital marketing are modes<br>of transport considering the<br>increasing competition<br>between industries  |
| 15. Keke, [29]              | Its aims to relationship<br>between brands and<br>consumers in the Turkish<br>digital marketing  | Theorical and Literature review              | Digital marketing and social<br>media campaigns contribute<br>to the promotion of different<br>companies and the advantages<br>they bring  |
| 16. Lopes, [30]             | Content marketing<br>management strategy<br>recommendations for<br>digital marketers sre<br>included   | Literature review                            | Content marketing conceptual<br>review of digitalization<br>guiding managerial<br>implication  |
| 17. Purwanto, [31]          | Marketing purchasing<br>decisions have tested the<br>effective marketing<br>strategy of the digital<br>marketing strategy  | Theorical                                    | Digital marketing is<br>significiantly positively<br>correlated with purchasing<br>decisions and brand image   |

| 18. Amjad, [32]       | Digital Entrepreneurial<br>Marketing developing, and<br>developed countries are<br>used equally   | Bibliometric analysis | Digital marketing is an<br>important part of<br>entrepreneurial marketing  |
|-----------------------|---|-----------------------|--|
| 19. Kerdpitak, [33]   | It's stated that encouraging<br>performance in quality,<br>digital marketing and<br>supply chain<br>managementin cultural<br>tourism depends on<br>innovative management<br>and | Theoretical           | Innovative management<br>methods digital marketing can<br>bring the potential to increase<br>service quality and supply<br>chain management                                    |
| 20. Kurdi et al.,[34] | Study of digital marketing<br>addressed the role of the<br>costumer purchasing<br>decisions   | Theoretical           | The role of digital marketing<br>channels on consumers<br>purchasing decisions supports<br>the impact of digital<br>marketing channels on<br>consumers purchasing<br>decisions |

# 5. DIGITALIZATION IN ACCOUNTING MANAGEMENT

Along with digitalization, the digitalization of accounting management attracts the attention of practitioners and the scientific environment. Digital transformation is starting a new business with operating model technologies to implement and integrate digital. The purpose of digitalization of management accounting for an organization (Platov et al., [35]):

• Helping to reveal new organizational capabilities, providing flexibility in the business

- Automation and acceleration of the circulation of inventory items
- Ensuring uninterrupted communication between the supply chain and accounting structural units in a holistic manner

The accounting profession, which needs a radical change, must adapt to this digital transformation while maintaining time to ensure sustainability. Otherwise, they will be unable to compete with other professionals who have adapted and may experience severe problems and difficulties maintaining their existence in current conditions (Sabuncu, [36]).

| Author<br>Year           | Purpose   | Method             | Results   |
|--------------------------|---|--------------------|---|
| 1. Hasibuan et al., [37] | Using the input processing<br>and editing of files in<br>business bodies is part of<br>digitization   | Literature review  | Good use of the tools of the<br>digital age plays a very<br>important role in ensuring<br>the digitalization of<br>accounting             |
| 2. Agostino et al., [38] | Discusses the status and<br>future research directions<br>of research directions of<br>research on digitalization,<br>accountability, and<br>accounting in public<br>services | Literrature review | Accounting jurnals often<br>seem to ignore the digitized<br>publica sector and instead<br>focus on the private sector                     |
| 3. Şen &Terzi, [39]      | Units of Artificial<br>Intelligence and<br>Digitalization in<br>Accounting Education are<br>to Evaluate   | Literature review  | Finance and accounting<br>workplace on artificial<br>intelligence background<br>some parts of it are<br>replaced by intelligent<br>robots |

Table 2: Digitalization in Accounting Management Literature Studies

| 4. Jans et al., [40]     | Literature survey of<br>specialized accounting<br>information system in<br>accounting   | Literatür review   | Internalist view, which<br>may be a possible<br>explanation of accounting<br>information systems<br>research topics have<br>difficulty being accepted as<br>part of accounting research                |
|--------------------------|---|--|--|
| 5. Varaniute et al.,[41] | Accounting in product<br>development<br>understanding how<br>research progresses<br>accordingly digitalization,<br>sustainability and<br>circularity aspects identify<br>the changing role of<br>management accounting in<br>product development<br>understand how research<br>progresses accordingly | Bibliometric analysis<br>and a systematic<br>literature review | Results which can be<br>regarded as the main driver<br>of changes in management<br>accounting in the product<br>revealed that aspects of<br>development are related to<br>innovation                   |
| 6. Coman et al., [42]    | Article theoritically it is a<br>survey-based emprical<br>research applied in<br>ecnomics and includes<br>both decision makers and<br>professional accountants  | Theoretical  | Suggest that digitalization<br>is more than a conventional<br>change, being equally<br>about technology and<br>people  |
| 7. Mutlu et al., [43]    | It aims to examine the<br>remote working<br>framework and adaptation<br>to digital transformation<br>due to Covid-19 and the<br>responses of professional<br>accountants on this issue  | Empriacelly  | Accountants stated that<br>digital transformation and<br>remote working<br>accelerated during the<br>pandemic period   |
| 8. Awang et al., [44]    | Examined the perception<br>of both opportunity and<br>risk related to<br>digitalization   | Theoriticl   | The results revealed that<br>the digitalization of the<br>accounting profession is<br>promising  |
| 9. Güney, [45]           | The importance of<br>digitazliation in<br>accounting and the<br>interaction of<br>digitalization with<br>accounting information<br>systems and accounting<br>education have been<br>revealed  | Literature review  | A great contribution will be<br>made to the profession with<br>the implementation of the<br>education model in which<br>digitalization and digital<br>literacy can be given in<br>acoounting education |
| 10. Zhang et al., [46]   | Includes redesign,<br>reconfiguration and re<br>cooke   | Theoretical, Literature review,                                | Learning and accumulating<br>organizational skills,<br>digitalization, both firm<br>and managerial<br>characteristics, can affect a<br>firm's digital strategy   |
| 11. Sabuncu, [36]        | Evaluation of accounting<br>practices how is the digital<br>transformation met by<br>accountants?   | Theoretical, Literature<br>review                              | The profession which<br>needs a radical change,<br>must adapt to this digital<br>trnasformation without<br>delay to survive  |

| 12. Murodovich &<br>Ziyadullaevna, [47] | To identify the problems<br>that arise in the process of<br>digitalization of<br>accounting with the<br>development of digital<br>information technologies                | Literature review                    | It will provide a great<br>advantege to the industry in<br>the application of<br>blockchain technology in<br>accounting   |
|---|---|--------------------------------------|---|
| 13. Taib et al.,[48]                    | Technological knowledge<br>and preparation fort the<br>links between the<br>digitalization of the<br>accounting profession and<br>future accountants has<br>been explored | Theoretical and literatuere review   | Changes from technology<br>fundementals to current<br>accounting practices are<br>significant   |
| 14. Awyong et al.,[49]                  | Examines the impact of firm digitization and digital skills on demand for corporate accounts  | Theoretical and<br>literature review | For a company to take<br>advantage of its own<br>investment in employee's<br>digital skills and<br>digitalization strategy is<br>required                         |
| 15. Brabete &<br>Goagara,[50]           | Automation, robotics,<br>artificial, intelligence and<br>digitalization in<br>accounting practices has<br>been explored   | Literature review                    | The limitations of<br>accounting and<br>digitalization in this area<br>will also be examined  |
| 16. Pham & Vu, [51]                     | Statiscal digitalization of<br>accounting information<br>among small and medium<br>sized entreprises (SMEs)<br>digitalization of<br>accounting information<br>(DOAI)      | Qualitative &<br>quantitative data   | The impact of<br>digitalization pn the<br>business operations of<br>SMEs, the size of the<br>DOAI was found to be a<br>difference in the<br>effectiveness of SMEs |
| 17. Yakut, [52]                         | The effects of digital<br>literacy on the productivity<br>of accountants are<br>analyzed  | Theoretical                          | Digital literacy increases<br>the productivity of<br>accounting employees   |
| 18. Mert et al., [53]                   | The development of<br>digitalization process and<br>the effects of digitalization<br>on accounting practices<br>were investigated   | Theoretical                          | It has been determined that<br>accountants fallow and<br>apply developments and<br>professional practices<br>related to digital<br>technologies                   |
| 19. Tekelioğlu, [54]                    | Accounting profession to<br>determine the perceptions<br>of the profession towards<br>the digitalization of the<br>profession   | Theoretical and<br>Literature review | Accountants who consider<br>digital transformation<br>necessary and determined<br>that they are open to<br>change   |
| 20. Yalçın, [55]                        | Industry to understand accounting and auditing  | Literature review                    | Accounting, finance, and<br>information technologies<br>have now become an<br>inseparable whole   |

# 6. DIGITALIZATION IN HUMAN RESOURCES MANAGEMENT

Digital technologies have made companies transparent about salary levels and conducting interviews. Information about the company is provided via the Internet. Bad reports about the company soon become public. The feedback received from company employees in mobile human resources applications has increased ten times more. With digitalization, barriers between work and private life are lifted. Employees are available anytime and anywhere (Fedorova, vd, [56]). Digital technologies from Industry 4.0 are used by all sectors and human resources management operating in the digital age. Big data and artificial intelligence assist in selecting high profiles in CV selection, which was previously performed manually (Silva vd, [57]).

| Author<br>Year                | Purpose  | Method   | Results   |
|-------------------------------|--|--|---|
| 1. Silva et. al., [57]        | Contribute to the theoretical development of human resource management   | Bibliometric<br>analiysis, lilterature<br>review | Industry 4.0 encourages<br>leading the industry and<br>HRM professionals,<br>organizations, and<br>workforce. They must face<br>the challenges of industry<br>4.0   |
| 2. XingShu et al.,<br>[58]    | Intelligent management of human<br>resources as well as extensive<br>social governance capability in<br>China, it plays a decisive role in<br>the effectiveness of community<br>management organizations and the<br>effectiveness of external human<br>resources | Literature review                                | Human resources<br>management<br>organizations, it can<br>effectively improve the<br>government's<br>administrative efficiency<br>and service quality   |
| 3. Zavyalova et al.,<br>[59]  | Compenents of HRM<br>digitalization important<br>characteristic of organizations<br>(size, staff, structure, staff,<br>turnover, performance data<br>analysis  | Theorical and literature review                  | Shows that compnaies that<br>are more successful in<br>digitalization have more<br>flexibility  |
| 4. Zavyalova, et al.,<br>[59] | Compenents of HRM<br>digitalization important<br>characteristic of organizations<br>(size, staff, structure, staff,<br>turnover, performance data<br>analysis  | Theorical and literature review                  | Shows that compnaies that<br>are more successful in<br>digitalization have more<br>flexibility  |
| 5. Kodua et al., [60]         | Contributes to green human<br>resources by researching and<br>analyzing GHRM implementation<br>barriers  | Theorical and<br>Emprical                        | To advocate and enforce<br>sustainability globally,<br>GHRM it has received a lot<br>of attention lately GHRM<br>application the developing<br>country like Ghana is<br>facing many problems and<br>challenges. These hurdles<br>need to be overcome to<br>implement GHRM |
| 6. Kambur, [61]               | Artificial in the article the effecs of<br>intelligence on human resources<br>processes were investigated  | Literature review                                | The use of artificial<br>intelligence in the field of<br>human resources in Turkey<br>little work in the summer<br>and it has been revealed<br>that there is a need for<br>research on this subject   |
| 7. Oruçoğlu, [62]             | Within the scope of Industry 4.0<br>new applications and effects in<br>HRM functions were investigated   | Qualitative content analysis                     | Industry the most affected<br>functions in the human<br>resources area of 4.0 have<br>been determined   |

| 8. Murugesan, [63]            | The contributions of artificial<br>intelligence to HR digitilazation<br>and its applications in the industry<br>have been reserached   | Theorical and literature review    | Possible areas of Human<br>resource management of<br>Artificial Intelligence<br>concepts can be applied in<br>various fields   |
|-------------------------------|--|------------------------------------|--|
| 9. Athira, [64]               | The role of the HR departmanet   | Literature review                  | Organization HR<br>departmant are the best<br>players within the<br>company in keeping<br>employees productivite,<br>motivating and loyal  |
| 10. Al Haziazi, [65]          | Challenges in digitizing human<br>resource management in the<br>Middle East  | Literature review                  | There must be HR<br>management to manage<br>change throughout the<br>organziation where talent<br>development and skill<br>development are important   |
| 11. Lanenko et al.,<br>[20]   | Claiming that Covid-19 has<br>become a seriouspheonemenon<br>changing consumer behaviour our<br>and significantly accelerated  | Literature review                  | The pandemic is a strong<br>the drive to digitize<br>marketing reveals several<br>previously hidden issues   |
| 12. Padhy, et<br>al.,[66]     | The necessity of digitalization in<br>human resources and benefits for<br>employers  | Literature review                  | Digization recruitment of<br>HR managers and<br>outstanding staff help<br>evaluate employees   |
| 13. Alanlı,[67]               | The impact of digitalization on<br>HRM in the public sector<br>managers to demonstrate to<br>identify their experiences  | Theoretical                        | Towards digitization of<br>HRM in the public sector<br>the benefit of the<br>application   |
| 14. Fenech, [68]              | To investigate how human<br>resource management<br>undergraduate students perceive<br>human resource management in<br>the digital age  | Theorical and<br>literature review | HR is a result of technology literacy  |
| 15. Cooke et al.,<br>[69]     | If we adopt a human-centered<br>approach to human resources<br>management (HRM) it will,<br>contribute to creating sustainable<br>workforce, organizations, and<br>societies in an environment of<br>chaos and uncertainty | Literature review                  | Conceptualizing HRM<br>models and practices and<br>expanding HRM theories<br>can contribute  |
| 16. Şaşmaz, [70]              | An overview of human resource<br>management in digital<br>transformation   | Literature review                  | With the pandemic<br>processes, all business<br>processes have started to<br>take place on the digital<br>platform   |
| 17. Durmaz ve<br>Burçak, [71] | The structuringrequired for the<br>application of artificial<br>intelligence in human resources<br>has been covered  | Literature review                  | For the effective<br>implementation of<br>artificial intelligence, it is<br>necesssary to develop<br>resources and prepare the<br>business for this, providing<br>training and development<br>to employees |

| 18. Kaçik & Aykan,<br>[72]    | Its purpose is to connect society 5.0 and HRM to explain                                       | Literature review | HRM when faced with<br>some of the challenges of<br>society 5.0 it may be<br>appropriate to implement<br>strategies      |
|-------------------------------|--|-------------------|--|
| 19. Sönmez &<br>Kalaycı, [73] | The transformation of human<br>resource management has been<br>covered                         | Literature review | After the field of finance<br>digitalization is mostly<br>applied in the field of<br>human resources                     |
| 20. Demirci et al.,<br>[74]   | The impact of digitalization on<br>HRM practices examined Largely<br>Positive effects observed | Literature review | Positive and negative<br>aspects of digitalization<br>there are effects, but the<br>positive effects are<br>significiant |

## 7. DIGITALIZATION IN ENTREPRENEURSHIP MANAGEMENT

Digital entrepreneurs aim to make sales by turning companies into giant players. Digital entrepreneurship technology combines technology elements as a concept (Giones & Brem, [75]). The meeting of new digital technologies such as mobile and cloud computing, social media 3D printing, and data analytics with innovation and entrepreneurship has shaped the search for entrepreneurship. The questions asked for academic entrepreneurship in Figure 4; the reasons for the adoption of technologies to achieve academic goals (who), the processes in which digital technologies are activated, entrepreneurship (how), and new digital academic entrepreneurship (what) questions and the impact of digital technologies on academic entrepreneurship are discussed (Rippa and Secundo, [76]). Although digital transformation brings benefits, how to do it and the potential effects of business development, old and new, should be considered (Zhang & Chen, [77]).

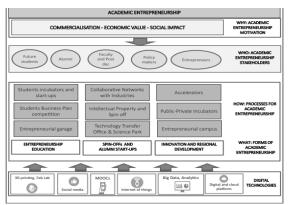


Figure 4. Academic entrepreneurship. (Rippa & Secundo, [76])

| Author                     | Purpose   | Method                                      | Results   |
|----------------------------|---|---|---|
| Year                       |   |   |   |
| 1. Orrensalo et al., [78]  | Inclusion and digitization<br>between 1990 and 2020,<br>critical literacy of<br>entrepreneurs and<br>information search<br>domains and histories.   |   | Digitalization has affected<br>critical literacy and<br>information- seeking<br>behaviors and processes                                   |
| 2. Chatterjee et al., [79] | Exploring the<br>contemporarry<br>demographics of SME<br>entrepreneurship and to<br>identify the regulatory<br>roles and potentials of<br>entrepreneurs'<br>demographics and<br>education in digital<br>adoption. | Literature review<br>Theorical and pratical | Entrepreneurs who are<br>already successful and use<br>digital platforms efficiently<br>will be role models for start<br>up entrepreneurs |

**Table 4**: Digitalization in Entrepreneurship Management Literature Studies

| 3. Bertoni et al., [80]   | Developing understanding<br>of the impact of<br>digitalization on the<br>market for entrepreneurial<br>finance  | Literature review<br>Review                 | The digital revoluation<br>raises interesting policy<br>issues. The extent to which<br>regulators need to intervene<br>to stop or encourage it  |
|---------------------------|---|---|---|
| 4. Gallego et al., [81]   | Sustainability context and<br>Green Supply Chain<br>Management (GSCM)<br>literature digital<br>technologies (DTs) and<br>green human resource<br>management on economic<br>and environmental issues             | Theoritecal and<br>emprical                 | Research findings<br>demonstrate that both green<br>human resources and<br>digital technologies<br>adaption are relevant<br>enablers. GSCM will then<br>pursue better envronmental<br>and economic performance                    |
| 5.Ghazy et al., [82]      | The determine the<br>relationship between<br>entrepreneurship and<br>productivity for 27 EU<br>member states using panel<br>data  | Empirical analysis and<br>Literature review | A positive relationship was<br>found between<br>entrepreneurship and<br>productivity and a positive<br>relationship was found<br>between digitalization and<br>entrepreneurship   |
| 6. Fernandes et al., [83] | The literature on digital<br>entrepreneurship<br>platforms that creates a<br>holistic picture of the<br>different aspects of the<br>field and trends were<br>studied with bibliometric<br>approaches            | Content and Thematic<br>analysis            | In the field of<br>digitalentrepreneurship at<br>the methodologicalevel,<br>the bibliometric approach<br>understands the<br>relationships between<br>authors and research flows<br>and shows how the<br>research area is structed |
| 7. Ratten, [84]           | As a way for rural farmers<br>to connect with the urban<br>environment presents the<br>results of a study initiated<br>with consumers on its<br>digital platform  | Theorical and literature review             | Demonstrates how digital<br>platforms can be used to<br>generate transformational<br>entrepreneurial outcomes<br>in times of crisis   |
| 8. Panagaria, [85]        | It presents examples of<br>entrepreneurship through<br>the impact of digital<br>financialissation the<br>creation of new web-based<br>services directly in the<br>fintech space and the rise<br>of the internet | Theorical                                   | Native of India and the<br>need for foreign investors<br>to take part in the digital<br>field is absolute   |
| 9. Dana et al., [86]      | Determined the effects of<br>digital technology factors<br>and urban<br>entrepreneurship in smart<br>cities on sustainable<br>businesses  | Quantitative and qualitative analysis       | Digital technologies are<br>important in the smart city<br>business environment as a<br>solution to ensure<br>sustainability  |
| 10. Modgil, [87]          | Diffusion theory of<br>innovations research has<br>been conducted on the<br>opportunities for digital<br>enterpreneurship Covid-<br>19  | Thematic analysis                           | It uses the theory of<br>diffusion of innovation<br>with the opportunitues of<br>digital enterpreneurship<br>stemming from Covid-19<br>as its basis   |

| 11. Al-Mamary, S. H. Y.<br>et al. [88] | The most famous intent<br>theory TPB model has<br>been tested  | Theoretical and review               | In the field of<br>Enrepreneurial intent of the<br>TPB model applicable in<br>Saudi Arabia, the model<br>was applied to help develop<br>the field   |
|--|--|--------------------------------------|---|
| 12. Himki, et al., [89]                | Digital studies which have<br>a significant impact on<br>entrepreneurship have<br>turned into an accessible<br>model and format for all<br>sectors             | Theoretical                          | Business that applies the<br>concept of e business<br>management in their<br>operations tend to be<br>longer-lasting and more<br>competitive in the market<br>however organizations that<br>do not want to implement<br>the concept of e business<br>cannot achieve<br>sustainability |
| 13. Xu et al., [90]                    | Explored what kind of<br>digital capability could be<br>built to drive an increase in<br>digital sustainability  | Theoretical                          | Digital sustainable<br>entrepreneurship (DSE), in<br>providing sustainability,<br>there is a significiant<br>relationship between digital<br>capability (DC) and digital<br>innovation orientation<br>(DIO)   |
| 14. Baig et al., [91]                  | The research identified six<br>streams of digital<br>entrepreneurship. for<br>example the<br>entrepreneurship<br>procedure                                     | Literarture review                   | Review of recent digital<br>entrepreneurship in<br>different fields created a<br>framework for in-depth<br>understanding  |
| 15. Baranauskas &<br>Raisiene, [92]    | An overview of the impact<br>of digital<br>entrepreneurship. Studies<br>were conducted on<br>sustainability and digital<br>business ecosystemareas             | Theoretical and<br>Literature review | Short-term transition from<br>traditional<br>entrepreneurship to digital<br>entrepreneurship archived<br>significant growth but the<br>number of digital<br>businesses has revealed<br>new challenges and needs   |
| 16. Sadigov, [93]                      | Current digitalization<br>trends in terms of business<br>innovation the level of<br>impact during the covid-<br>19 outbreak has been<br>studied                | Theoretical literature<br>review     | According to the results the<br>business sector has become<br>heavily depend on the<br>proliferation of digital<br>technologies   |
| 17. Schiuma & Carlucci,<br>[94]        | There are six critical<br>comptencies for the<br>transformative leadership<br>profile that supports the<br>digital transformation<br>development of businesses | Literature review                    | Defines the theoretical<br>foundations for developing<br>research and emprical<br>methods on leadership<br>traits that hinder and enable<br>companies' digital<br>transformation  |

| 18. Sedera et al., [95]     | Digital scientific studies<br>that illuminate the subject<br>of business transformation<br>in the fields of innovation<br>and entrepreneurship                         | Literature review                 | Dijital business<br>transformation can be<br>considered the single most<br>important force to thrive in<br>an extraordinary time  |
|-----------------------------|--|-----------------------------------|---|
| 19. Tao et al., [96]        | Digitalbusinesstransformationininnovationandentrepreneurshipisexploredwithisentirenomological network  | Theoretical                       | Promoting public<br>entrepreneurship, the<br>digital economy is an<br>important mechanism for<br>developing high-quality  |
| 20. Steininger et al., [97] | Whether there are<br>established assumptions<br>that support the emergence<br>of digital technology<br>entrepreneurship theories,<br>and their effects are<br>explored | Theoretical and literature review | Measures on digital<br>enterpreneurship policy its<br>impact on fostering<br>creativity and growth of<br>digital startups in particular<br>there is no micro-economic<br>evidence |

# 8. DIGITALIZATION SUPPLY CHAIN MANAGEMENT

Technological developments in recent years have forced supply chain managers who want to digitize their existing businesses to identify the opportunities and threats they face. Therefore, the business model needs to be digitized. Various paradigms have been proposed to ensure sustainability due to the devastating effects on production systems, warehouses, and distribution networks experienced by Covid-19. For supply chain managers, it represents deep knowledge and steps to make the supply chain happen cyclically for continuous improvement over time. The advantage of using digital supply chain twin simulation software in the digitization phase of the supply chain (Longo et al., [98]). The supply chain reacts more than once to unexpected events. In this approach, since no invervention strategy is required to be implemented, it is economically efficient, and errors and wastes are minimized. Figure 5

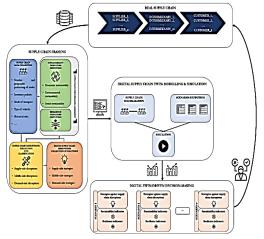
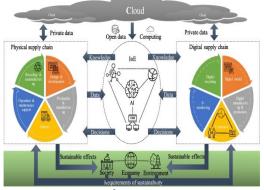


Figure 5. Simulation- Digital supply chain twin paradigm (Longo et al., [98]).

Benefits of the digital supply chain (Agrawal & Narain [4]):

- ✓ Better decision-making tool transparency
- ✓ Inventory levels are also less as just-in-time supply is used more
- ✓ Clear visibility of inventory levels as it is fully integrated into the chain
- ✓ Less decentralized storage in reducing delivery times
- ✓ Shortening of the delivery time as the number of stages in the sales chain will decrease

- ✓ A better understanding of demand and a better understanding of customer requirements through upto-date sales
- ✓ Provides higher sales, higher profits, and better costumer relations
- ✓ Reducing risks and costs thanks to the flexibility of the chain with the development of the supply chain
- ✓ Better results in supply chain decisions with more alternative options in decision-making processes
- ✓ Sustaining competitive advantage



**Figure 6:** CAB<sup>2</sup>IN model for Sustainable Supply Chain Management, Liu et al.,[99]

Cloud service, Artificial Intelligence, IT, and loT framework to CAB<sup>2</sup>IN aims to ensure sustainability throughout the life of chain by classifying the supply management activities as data collection and information. It is aimed to meet the requirements of production and sharing, and sustainability Figure 6 (Liu et al., [99]). According to (Ali, [100]), the most important trends identified in research on supply chain management are the widespread use of industry 4.0 elements and blockchain in the traditional supply chain: But there is also a need to explore community industry 5.0 to improve the human-machine relationship that has been hit hard by Covid-19.

| Author<br>Year                    | Purpose  | Method                           | Results  |
|-----------------------------------|--|----------------------------------|--|
| 1. Bigliardi et al <b>.</b> [101] | It aims to explore the main<br>discussion themes related to<br>supply chain digitization<br>using a keyword-based<br>arrangement                         | Literature review<br>Theoretical | Distribution heavily<br>applied and<br>sustainability and<br>circular economy<br>concepts digitalization it<br>is used in the industry<br>sector where<br>digitalization is<br>experienced as well as<br>the basic concepts of<br>industry 4.0 |
| 2. Selivanova, et al., [102]      | Global digitalization is to<br>develop proposals for the<br>improvement of accounting<br>and accounting. In the<br>contexxt of global<br>digitalization. | Literature review<br>Theoretical | According to the<br>analysis of the<br>enterprise's activities,<br>accounting for<br>settlements with foreign<br>suppliers can be<br>improved in two aspects<br>'Settlements with<br>suppliers and<br>contractors                              |

 Table 5: Digitalization of Supply Chain Management Literature Studie

| 3. AlNasrallah<br>&Saleem,[103]        | In the economy moving<br>towards rapid<br>transformation in Suudi<br>Arabia determinants of A-<br>adaption   | Therical   | A sustainable workplace<br>is an outcome of the<br>process and procedures  |
|--|--|--|--|
| 4. Burgess et al., [104]               | It aims to offer a<br>blockchain-based qualty<br>management developed for<br>short food supply chains  | Theorical and literature review  | Blockchain provides a<br>unique ability to store<br>quality and relevant data<br>for short food supply   |
| 5. Murodovich &<br>Ziyadullaevna, [47] | Justification of the need for<br>digitalization in the field of<br>accuonting, identification<br>of the main digital<br>technologies in accounting<br>and their advantages and<br>their advantages and<br>disadvantages  | Literature review  | The digital economy<br>expands the capabilities<br>of a modern accountant<br>improves the quality and<br>efficiency of<br>accuonting, creates<br>modern innovative<br>approaches to the<br>integration of various<br>types of accuonting |
| 6 Taib et al., [48]                    | Theorical and emprical research  | Technological<br>knowledge and<br>preparation for future<br>accountants' digitization<br>of the accounting<br>profession | More skilled<br>accountants will use<br>technology better  |
| 7. Ye et al., [105]                    | Theorical and literature review  | The Covid-19 pandemic,<br>therefore long-term<br>impact of Digital<br>Techmonogy asset<br>al.ocation on supply<br>chains | Deploying DT assets to<br>varying degrees reveals<br>both breadth and depth<br>of DT asset distribution<br>shows positive<br>associations with supply<br>chain visibility  |
| 8. Badakhshan et al.,<br>[106]         | Exploring the potential of<br>the supply chain digital<br>twin framework to assist<br>decision makers in<br>managing inventory and<br>cash flow through SCS  | Emprical and Literature<br>reviw   | Result show that an<br>upstream member of a<br>Supply Chain plays a<br>cucial tole in mitigating<br>the bulwhip effect and<br>thus minimizing the<br>cash conversion cycle of<br>the SC  |
| 9. Shukla & Tiwari, [107]              | IT security management<br>methods optimal<br>management and timely<br>allocation of resources go<br>beyond the traditional. As<br>such,<br>It is an essential compenent<br>of depending on defending<br>againist cybersecurity<br>disruptions in the industry.<br>4.0 is the dfinition | Emprical and Literature<br>reviw   | Input parameteters for<br>workflow optimization<br>skilled manpower,<br>production time and<br>capital allocation for<br>harware recovery  |

| 10. Grassi et al. [108]        | The privacy plan for<br>sensitive data is integrated<br>into a blockchain-based<br>broker. Special<br>performance models are<br>being developed for buyers<br>and sellers   | Emprical and literature<br>review        | Recent advances in<br>Industry 4.0 production<br>control archhitectures<br>and blockchain<br>technology mediation<br>mechanism developed   |
|--------------------------------|---|--|--|
| 11. Liu et al. [99]            |   | A bibliometric analysis<br>and theorical | Bridging the gaps<br>between the previous<br>conceptual framework<br>of sustainable supply<br>chain management and<br>the recently rapidly<br>growing digital is an<br>important issue |
| 12. Chauhan et al., [109]      | Examining Industry 4.0<br>technologies and<br>sustainable SCM<br>applications   | Theoretical and<br>Literature review     | Limited emprical<br>studies have been<br>conducted for<br>developing countries. A<br>few studies focused on<br>operational espects,<br>economies and<br>automation in SCM              |
| 13. Brinker & Haasis,<br>[110] | The aim is to reveal the<br>research gap regarding the<br>effects of power<br>asymmetrices in the supply<br>chain in addition to the<br>digitalization trend  | Literature review                        | Digitalization can cause<br>highlighted power<br>asymmetries as it can<br>change the competitive<br>landscape and channel<br>structures  |
| 14. Ali, [100]                 | Industry 4.0 and supply<br>chain digitazation trends<br>examined  | Literature review                        | Digitalization industry<br>4.0 applications are used<br>in supply chain<br>management  |
| 15. Kankaanpaa, [111]          | The abiliy of digital<br>platforms to impact the<br>supply chain the mediation<br>effect of performance and<br>supply chain capability was<br>tested  | Theoretical                              | Demonstrated that<br>digital platforms have a<br>positive and significant<br>impact on supply chain<br>performance   |
| 16. Zoric et al., [112]        | Operation of the tradional<br>food supply chain (FSC) in<br>the wholesale and retail<br>segment It aims to identify<br>a set of measures and<br>incentives for the<br>digitalization of business<br>processes and thier negative<br>impact on sustainablity | Theoretical and<br>Literature            | SC management should<br>be committed to<br>digitizing business<br>processes as a priority<br>for sustainability<br>segment   |
| 17. Oubrahim et al.,[113]      | Digitalization, supply chain<br>suatinability and practices<br>Supply chain integration on<br>overall supply chain<br>performance examined  | Literature review                        | Decisions makers<br>supply chains<br>accurately, quickly and<br>should make it more<br>efficient   |

| 18. Deepu & Ravi, [114]  | Digitalization SC and<br>Communication technology<br>tools are most important<br>topic recent times  | Literature review                  | Supply chain<br>digitalization (SCD) in<br>business processes and<br>intercompany<br>information systems<br>(EIIS) have become<br>important in the modern<br>industrial world |
|--------------------------|--|------------------------------------|---|
| 19. Tseng, et al., [115] | Sustainable supply chain<br>management practices<br>(SCPs), social<br>environmental and<br>economic perspectives are<br>explored in the Indonesian<br>coffee industry and<br>Industry 4.0 technology           | Theorretical and literature review | Digitalization<br>integration has a<br>positive interaction with<br>working conditions<br>supply chain finance  |
| 20. Kilay et al., [116]  | Demonstrating that both e-<br>payments and e commerce<br>have positive and impact<br>service variables on the<br>performance pf micro,<br>small and medium<br>enterprises (MSME) supply<br>chains in Indonesia | Literature review                  | Services variables<br>related to the<br>performance of MSME<br>supply chains in<br>Indonesia showing that<br>both e- payments and e-<br>commerce have positive<br>and impact  |

#### 9. DISCUSSION

The research emphasized in the literature studies conducted in 2022 that digitalization in human resources, accounting, entrepreneurship, and supply chain management increased even more with the covid 19 epidemic, and opportunities in entrepreneurship came to the fore. However, the problems and solution proposals brought by digitalization or nondigitalization should have been mentioned.

For example, despite the opportunities and advantages offered by technological revolutions to the business world, its impact on the service sector has yet to be discussed much (Navarrete et al., [117]).

At this point, the need for more studies on digital requirements and the lack of infrastructure of companies is remarkable. Another issue is that studies generally include literature reviews and theoretical studies. Analyzing digitalization processes during and after Covid-19 can provide significant benefits.

#### **10. CONCLUSIONS**

With the advancement and use of information technologies, which replaced traditional management structures, decision support systems that were renewed with these technologies came to the fore (İraz, [118]). With the digitalization age, efficiency has increased in the management of world companies (Akmaeva et al. [11]). Companies that cannot compete in the digital age will undoubtedly fall victim to "Digital Darwinism" (Bansal et al., [119]). With digital technologies, companies use green process innovations, enabling them to increase their level of responsible digitalization when they use green packaging and recycled materials in their search for energy-efficient solutions (Cardinali & Giovanni, [13]). Therefore, digitalization supports green management and sustainable green goals. Digital technologies strongly influence the company's business model. For many, digitization was perceived as a significant threat to employees' jobs (Fedorova et al., [56]). In addition, the idea is that Industry 4.0 will reduce manual labor and that robots will work, or machines will make workers' work more accessible by reducing the workload. (Kanbur, [120])'s HRM, AI, and components of artificial intelligence Industry 4.0, which creates a systematic approach to digitalization, uses artificial intelligence in human resources. These subjects need to be researched more in Türkiye. According to (Alanlı, [67]), digitalization accelerates processes in public services and HRM processes and reduces costs. It has been determined that it saves time and facilities access to information. For this reason, it is essential to follow the digital developments in public institutions and provide the necessary equipment and specialization to use these tools.

The use of artificial because of the development of digitalization processes in all management areas provides less damage to the natural environment, and artificial intelligence and advanced technology will contribute to the workforce. There are few holistic studies on the digitalization of management in the literature. Conducting a qualitative and quantitative analysis of the digitalization trends of management units will make a significant contribution.

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