

Research Article

The Fusion of Talent Management and Digitalization: A Literature Review

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Abstract

Currently organizations are facing a double challenge: to effectively manage their talents, while adapting themselves to the rapid technological changes. This paper aims to conduct a literature review about two concepts considered to be of great interest and actuality, both in academic and managerial literature: talent management and digitalization, in order to investigate how digitalization is reshaping talent management. We believe that the paper will demonstrate a high degree of novelty and interest, based on the fact that it tries to identify how these concepts are connected. Based on the reviewed specialized literature, the paper tries to formulate a unitary definition in terms of talent management, thus trying to bring more clarifications regarding the definition of this concept. We will present an overtime analysis regarding the evolution of the number of published papers on the topics approached and we will identify the countries where the largest number of papers has been published, by using the information available in Web of Science and Scopus. In the end of the paper, a bibliometric analysis of talent management will be presented, in order to identify how strongly these topics are connected. The results were not according to the expectations of the analysis of the specialized literature, considering the fact that we only found a weak link strength between talent management and digitalization. This is most likely due to the fact that some of the papers covering talent management topic have been written mostly without referring to this term, and, on the other hand, to the degree of novelty of the digitalization topic. We believe that these results offer the premises of future research regarding the relationship between these concepts.

Keywords: talent management, talent attraction, talent development, talent retention, digitalization

JEL classification: F63, J24, L21, M12, M51, M54

Introduction

In the current economy, the main elements that lead to the development of organizations are high-performance technologies, information and the innovation capacity. Due to this, the human resource becomes the main factor of production within organizations, especially those employees who have a high level of knowledge and skills, possess the ability to constantly learn and develop, adapt quickly to new technologies and develop new technologies, and also have the ability to interact with other employees within the organization in order to share the knowledge.

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That is why, among modern organizations, there is a strong competition for attracting and retaining talents, meaning those employees who possess a high level of knowledge and skills, especially because of the fact that their number on the labour market is low.

The talent management topic was brought into focus in 1997, when the consulting group McKinsey devised the phrase "The War for Talent ". As well, the birth and development of the talent management concept was also due to employees' optics changes. Nilsson, S. and Ellström, PE. (2012, p. 27) found that there had been a change of optics between the period in which learning was considered to be only the education received before the start of their careers, and that job security and lifelong employment were paramount for employees. Nowadays, it has shifted to lifelong learning, employability and talent management. They felt that the main challenge was that employees need to stay up to date with the changes and adapt to the evolving needs of organizations.

Grigorescu, A. and Chiper, A. (2016, p. 80) emphasized the importance of investing in human capital (ensuring protection and evaluation, adequate remuneration and rewards, as well as continuous development), taking into account that, by increasing the level of knowledge and own experience that this capital puts in the service of the organization, it contributes to increasing the efficiency of the other factors of production, considering that, currently, human capital is the main factor of production. The authors emphasize that this capital has an essential contribution, through the creativity it demonstrates, to the long-term strategy of the organization (Grigorescu, A. and Chiper, A., 2016, p. 78).

Regarding the evolution in time of talent management approach, Collings, DG. and Mellahi, K. (2009) concluded that, despite the fact that talent management presented a significant degree of interest, both academically and practically, the topic still remained underdeveloped. They found that the main limitations that led to this were that talent management did not yet have a consistent definition and no clear conceptual boundaries. In all the period since the implementation of this term in the business vocabulary until now, its approach has been made especially by consulting and management firms, by practitioners in these fields and less in an academic approach, which led to the lack of a theoretical framework. This idea is underlined by Iles, P., Preece, D. and Chuai,

X. (2010) who considered that the lack of theoretical justifications and conceptual development in the literature could be attributed in part to the fact that most of the literature in this field was written by practitioners or consultants.

It should be noted that, in this article, no distinction will be made between talent management, strategic talent management and global talent management, given that many authors, including Gallardo-Gallardo, E. and Thunnissen, M. (2016), consider that strategic talent management and global strategic management represent two conceptualizations of talent management.

Digitalization represents another key concept that is debated in the literature. It is linked to the impact of the new technologies on the organizations, with the major changes that are involved and with the never before speed of these changes that organizations should face. The main question is if organizations are able to adapt to these changes and if their response will be fast enough, in order to allow them to remain sustainable and to preserve their competitive advantage. As we will see in this article, many organizations are not ready to face this challenge, even if it will allow an increase in productivity, innovation and sustainability. Digitalization produces a major transformation both for employees (work task transformation) and for organizations (new business models, new technological solutions) and provides new values for customers.

The paper has three objectives:

- 1. To identify a unitary definition of talent management, by analysing all the definitions that were given in the literature over the time
- 2. To identify the influence that digitalization has on talent management components: talent identification and selection, talent attraction, talent development and talent retention
- 3. To identify the components of talent management which are most influenced by digitalization

In order to achieve the objectives, we formulated two research questions:

1. Which are the main aspects that should be used in order to obtain a consistent talent management definition? How does the implementation of digitalization support the organizations to maintain a sustainable talent management?

Literature Review

Defining Talent Management

Kontoghiorghes, C. (2015, p. 2) considered that, although talent management is a very popular topic in recent years, there is still considerable disagreement among researchers regarding its definition and its basic practices. The author noted that talent management was generally approached as a process of transformation of human resources, without taking into account the effects of relevant organizational factors (Kontoghiorghes, C., 2015, p. 3). In the same direction, Thunnissen, M., Boselie, P. and Fruytier, B. (2013, p. 1756) showed that, for the most part, the literature on talent management refers to the importance of human capital and especially talent and the impact produced on the labour market by the evolution and trends in talent management, as well as the gap between the supply and demand for human capital for organizations. The authors also pointed out that the impact of other competitive and institutional mechanisms is barely explored. Regarding this topic, Kontoghiorghes, C., 2015, p. 3) considered that talent management has the role of helping the organization to respond to the challenges of the external environment, its effectiveness being influenced, however, by the characteristics of the internal environment. The author considered that the approaches used so far prevent the development of a holistic understanding of the factors that influence it, as well as of its true effects.

Egerova, D., (2014, p. 114-115) identified, in a unitary form, the main issues related to the concept of talent management:

- Talent management has focused in particular on its economic value

- Talent management studies have focused in particular on multinationals and large national companies

- Talent management was approached from a unitarist vision, regarding the organization as a

homogeneous body, within which all actors work together to achieve its objectives

The lack of a theoretical framework has led to the existence of several ways of interpreting the term talent management and to the lack of a uniform definition of the term talent management, as well as to different approaches regarding its purpose and scope. There are those who argue that, in fact, the term talent management was only used to present the old methods used by human resources in a new form, while others believed that the term refers only to career planning practices or the management of talented employees (Lewis, RE. and Heckman, RJ., 2006). This latter approach leads to the need to create talent bases and focus management's attention on designing employee needs and managing employee progress within the organization. The authors emphasize that organizations, in order to achieve their goals, are concerned with attracting only high-performing employees, who in turn will want to work alongside other highperforming employees, which will lead to increased talent within the organization. But in this way, the identification of the talent inherent in each individual will be missed, which could make the organization miss the opportunity to differentiate from other organizations. Referring to these two aspects when approaching talent management, Iles, P., Preece, D. and Chuai, X., (2010) ascertain that there has been and there still is controversy in the literature about how talent management is used, if it is necessary to use it exclusively for high-potential or highperforming employees or also for other employees. The second approach, according to the authors, contributes to the development of an organizational competency. This second approach can avoid organizational knowledge loss and reduce the level of "inert knowledge" (Bratianu, C., 2021). The organizations will be able to benefit from a more efficient knowledge structure and a more intense knowledge transfer (Bratianu, C. Prelipcean, G. and Bejinaru, R.,2020). On the other hand, this approach will allow organizations to secure their intellectual capital reserve (Bratianu C., 2007) within their own employees, by identifying and developing those with special qualities and high potential.

Collings, DG. and Mellahi, K. (2009) showed that the key positions are not limited to the management team and that they can vary over time and between different operating units. Connected to this approach, Scullion, H., Collings, DG. and Caligiuri, P. (2010) consider that studies should be focused also on the different ways in which it should be implemented in different

⁻ The term talent management is characterized by a multitude of definitions and a lack of consensus

⁻ Talent management focused on a limited set of human resources' practices and activities, especially attracting, retaining and developing the best employees

Radu MARIN, The Journal of Organizational Management Studies, https://doi.org/10.5171/2023.159868

national contexts. Farndale, E., Scullion, H. and Sparrow, P. (2010, p. 161) identified two other aspects of global talent management, namely the international growth of the talent competition and new forms of international mobility, mobility that should lead organizations to improve their ability to manage talent, especially in emerging markets.

Lewis, RE. and Heckman, RJ. (2006, p. 139) noted that the term talent management suffers from conceptual confusion, and there are still serious shortcomings in its definition, purpose, and general objectives. The authors identified three theories regarding the definition of talent management. A first theory defines talent management with reference in general to the recruitment, selection and development of personnel, as well as career and succession management, which are generally practices, functions and activities specific to human resources departments. The authors pointed out that for those who embraced this theory, talent management "requires you to do what human resources have always done, but to do it faster (through the Internet or outsourcing) or in the enterprise (rather than within a department or function)". A second direction was based on the concept of talent pools. This theory took into account the need for a set of processes that would ensure the necessary flow of employees into workplaces throughout the organization. The third perspective on talent management focuses on talent in a generic way, without taking into account organizational boundaries or specific positions (Lewis, RE. and Heckman, RJ., 2006, p.141).

In 2005, Huselid, MA., Beatty, RW. and Becker, BE. had shown that the field of talent management must have different approaches to that of human resources and focus the attention on identifying key positions within the organization, positions that should be occupied by top employees (Huselid, MA., Beatty, RW. and Becker, BE., 2005,1). However, Tarique, I. and Schuler, R. (2010, p.124) showed that in the studies conducted there are three different approaches to talent management: in terms of HR practices and functions, in terms of planning and projecting employee needs and by a focus granted to talents.

Another controversy is related to the way in which the need for talent is ensured within the organization. There are opinions pro attracting these talents from outside the organization, while more and more voices support the idea that organizations should pay more attention to identifying employees with high potential within their own employees (Ready, DA. and Conger, JA., 2007). Maślanka-Wieczorek, B. (2014, p.103), based on the studies conducted by Juchowicz, warned even that attracting talent from other organizations, without careful analysis, can be an inappropriate action, since talent can be specific to a particular organization and it is not always possible to be transferred between organizations.

Fedorova, ES., Naumov, KV., Kalinina, OK. and Sedyakina, AA. (2020) consider that, during its evolution, six approaches have been created within the talent management theory:

Talent management approached through the prism of the normal cycle of an employee within an organization, being limited to the processes of identification, attraction, development and retention of	Applicable within companies that rely on the fact that an employee will remain for a long time within them and for small companies It offers the opportunity to develop the potential of more
employees that demonstrate the qualifications necessary for the	employees, not focusing on the elites
development of the organization	Anlesinya, A. and Amponsah-Tawiah, K. (2020, p. 284) defined this approach to talent management as responsible talent management. Responsible talent management practices and strategies require organizations to identify the specific talents of each employee, which they can develop by ensuring access to talent development opportunities, to manage their weaknesses, but to recognize their contributions, to ensure sustainable results both for them (employee well- being and perceived decent work) and for the organization. The idea is also found in Haak, T. (2017) which emphasizes the need for individual approach to talent management, allowing the organization to know the qualifications and development desires of each employee

Competency-based talent management and individualization of the organization and employees	It is based on the identification and development of those employees who have or can develop competencies that fit to the model of competence promoted by the organization Just like the previous model, it is based on the hypothesis that the employees whose competences have been developed will remain for a sufficiently long period of time within the organization, so that it can cover the costs involved in developing the competencies The costs for the development of competences are high,
Talent management based on a more	which makes this model to be an expensive one, especially if there are frequent changes within the organization and, thus, new competences must be added The fact that the organization works with a group of
efficient investment in employees who demonstrate a high potential	talents gives it flexibility. Employees with high potential are privileged within the
	organization in relation to other employees, which could cause the latter to adopt a negative organizational behavior
Talent management based on planning and forecasting the personnel needs of the organization and reducing turnover	Theoretically, this approach involves the full development of human capital
in order to lose competent employees	In practice it is very similar to the previous approach. The organization, based on an extensive system of competencies, tries to identify more talents within it, but the employees with outstanding results receive, similar to the approach described above, a possibility of additional development units
Talent management determined by technological developments and digitalization	Employees who have the necessary qualifications to work in the so-called "informative" jobs become strategic resources of the organization, especially because they can offer a new approach in terms of results and strategy
	As in the approaches described above, there will be a difference in the opportunities offered to these employees, in relation to those offered to those employees who do not have the necessary skills to work in "informative" jobs, which, in the case of large organizations, may be the majority
	Cabot, C. and Gagnon, S. (2021) note the challenges that organizations, especially those based on projects, have to make in terms of attracting and retaining staff working in the IT field, as well as in terms of talent management strategies. On the one hand, most of the IT employees, although they have the technical abilities necessary for the activity they carry out, they rarely possess the managerial qualities necessary to act as a project manager. On the other hand, the authors note that the employees working in the IT field have the highest turnover rate of all sectors of activity.
Talent management based on the fact that talents are rewarded individually for the work performed and not based on a list of activities provided in the job description	It allows the stimulation of employees who benefit the organization by using either their skills or talents and achieve great results

Radu MARIN, The Journal of Organizational Management Studies, https://doi.org/10.5171/2023.159868

Unlike the approaches described above, it offers equal chances to all employees, because it is based on the objective evaluation of all employees according to the contribution made to achieving the organization's objectives
Mujtaba, M. and Mubarik, MS. (2020, p.401) believe organizations should pay attention to talents, and the rewards offered to them should be performance-based
Bethke-Langenegger P., Mahler P. and Staffelbach B. (2011, p.529,536) concluded, based on previous studies, that in order to be able to attract and retain talent, organizations must know their expectations and build a system of incentives consistent with these expectations.

Gallardo-Gallardo, E., Dries, N. and González-Cruz, TF., (2013, p. 290) note that: "literature has focused in particular on practices ("how") and less on ("who") is considered talented and ("why")". The authors identified four directions for future research, the most important being the further development of the theory on talent management, so that it can be demonstrated that talent management presents its own approach and brings additional value to the concepts used also by related fields. Thunnissen, M., Boselie, P. and Fruytier, B., (2013, p.1758), Gallardo-Gallardo, E., Dries, N. and González-Cruz, TF., (2013, p.298) and Tansley, C., Kirk, S. and Tietze, S. (2013, p.338) have made a series of proposals that, in their opinion, will allow the development of talent management as a field of academic research:

- Expanding the existing narrow approach to talent management

- Introducing new points of view that take into account the organizational context and the actors within the organization, who are in interdependence

- Exploring the ways in which organizations currently define talent, as well as researching the dominant typologies within organizations and their effect

-Expanding the narrow approach on talent management to the people in the organization and their work

- Focusing the study especially on employees and not on managers and HR specialists to study talent management

- Conducting studies on the role and impact of different actors interested in talent management policies and their impact

- Study of talent management in other types of organizations, for example, small and medium-sized enterprises, public institutions

- Development and testing of the current talent management framework

Defining Digitalization

I-SCOOP in "Digitization, digitalization, digital and transformation: the differences" considers that digitalization means "turning interactions, communications, business functions and business models into (more) digital ones which often boils down to a mix of digital and physical as in omnichannel customer service, integrated marketing or smart manufacturing with a mix of autonomous, semi-autonomous and manual operation" and "the use of digital technologies and of data (digitized and natively digital) in order to create revenue, improve business, replace/transform business processes (not simply digitizing them) and create an environment for digital business, whereby digital information is at the core."

Legner, C., Eymann, T., Hess, T., Matt, C., Böhmann, T., Drews, P., Mädche, A., Urbach, N. and Ahlemann, F., (2017) note that there is often confusion between the term digitalization and that of digitization or even that of digital transformation. The authors note that describes digitalization "the manifold sociotechnical phenomena and processes of adopting and using digital technologies in broader individual, organizational, and societal contexts". It is worth pointing out that Hess, T., Matt, C., Benlian, A. and Wiesböck, F. (2018), although they believe there is an important difference between digitization and digital transformation, referring digital to transformation, they say that it is also known as digitalization. Collington, R. (2022, p. 313) also uses the expression "digitalization - elsewhere termed 'digital transformation'".

Starting from DIKK model, as described by Bratianu, C. and Bejinaru, R. (2023), we tried to understand if digitization, digitalization and digital transformation are able to support knowledge dynamic. Data, the raw of material for information as the authors said can be make more accessible by digitization. View that information is the result of processed data (Bratianu, C. and Bejinaru, R.,2023, p.200), information will be obtained easily and will be shared more effectively by using digitalization. Meanwhile, digitalization will also support knowledge acquisition and knowledge sharing. Digital transformation will reinforce knowledge acquisition by cloud-computing, VR and AR, but will also deal with wisdom, as a result of processing knowledge (Bratianu, C. and Bejinaru, R.,2023, p.202), machine-learning and AI. Part of wisdom will ever remain as specific attribute of mankind.

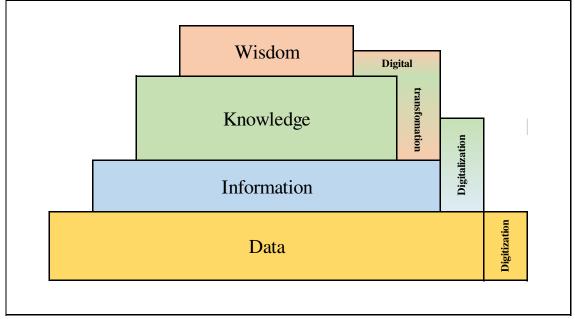


Fig.1. From digitization to digital transformation

Referring to digitalization (automation), Sirnicek, N. and Williams, A. (2015, p.112-113) consider that it is not possible to fully implement it in practice and that machine will not replace human factor for jobs based on flexibility, affectivity, and creativity, and especially for task based more on tacit than on explicit knowledge.

The influence of digitalization on talent management

Anlesinya, A., Dartey-Baah, K. and Amponsah-Tawiah, K. (2019, p. 308) identified the need for future studies regarding the opportunities and challenges of strategic talent management digitalization. In this direction, Stander, FW., Rothmann, S., Popov, V. and Sun, L. (2022, 522) conclude that, by using the right digital tools, the organizations will manage to leverage the opportunities for talent management, will have the chance of implementing the best practices. In the same time, in order to sustain the organizational develoment goals, talent management approaches should be based on digital dexterity (Ahmed, W., Hizam, SM. and Sentosa, I., 2022, p. 633). Learning by using digital platforms is another major benefit provided by digitalization, because they will be able to ensure personalized learning programs, which will provide to the organizations a stable talent supply to an optimal cost (Mukerjee, HS., Acharya, S., Stl, V. & Ghosh, V., 2023, p. 329).

Benitez-Amado, J., Llorens-Montes, FJ. and Fernandez-Perez, V. (2015, p.208) have demonstrated through their study that IT infrastructure capability contributes to talent management by supporting the organization in recruiting and attracting talents, with the help of the information provided, helps configure working culture, contributes to improving working conditions, as well as talent development. Phillips-Wren, G., Doran, R. and Merrill, K. (2016, p. 461) consider that organizations will be able to compete for talented employees and to control identification and

Radu MARIN, The Journal of Organizational Management Studies, https://doi.org/10.5171/2023.159868

8

recruitment costs by using social media networks. On the opposite, Meijerink, J., Boons, M., Keegan, A. and Marler, M. (2021, p. 2549, 2558) conclude that, if the used algorithms are not transparent regarding their way of learning, the sources of their learning and the way in which they add or adjust parameters, this can conduct to amplifying biases regarding some groups of candidates (e.g., discrimination reinforcement). This is the reason for which organizations approach differently digitalization in talent identification processes. Some of them consider digital talent management technology to be "error-free", so that human factor has no added value and others consider the technology results should be supervised by a human decision (Wiblen, S. and Marler, JH., 2021, p. 2612).

Martínez-Morán, P.C., Urgoiti, IMF-R., Díez, F. and Solabarrieta, J. (2021, p. 13-14), in a study conducted within companies in Spain, notes the increasingly frequent use by companies of digital techniques in different stages related to talent management, mainly in the attraction stage, especially in order to strengthen their employer brand. The authors conclude, however, that if in terms of identifying, attracting and recruiting talents, professional social networks are increasingly used, from the moment in which the emplovee is selected. face-to-face communication still prevails, and the trainings are also carried out, in particular, in a face-to-face or hybrid format.

da Silva, LBP. et al. (2022, p. 15-16) believe that digital technologies (artificial intelligence, virtual reality, augmented reality and big data) will contribute to talent retention through changing the company's image and will be able to predict and limit turnover through a predictive analysis of talents. The authors also believe that these technologies can contribute to the rapid filling of a vacancy by quickly scanning the CVs, according to the required qualifications. In the same direction, Saxena, R. and Kumar, Y. (2021) present the multiple uses that digital training can have in terms of developing talent management within organizations. The authors note that artificial intelligence will be able to support organizations in identifying positions for which employees demonstrate outstanding skills, their allocation to those positions, as well as the continuous development of talents (Saxena, R. and Kumar, Y., 2021, p. 118), will influence recruitment processes and talent acquisition, as well as the decision of organizations whether to acquire or develop talent (Saxena, R. and Kumar, Y., 2021, p. 118). On the same topic, Conte, C. and Siano, A. (2023) find that organizations will be

able to achieve an increased return on investment in talent, if they improve internal communication and recruitment communication, taking advantage of the opportunities offered by big-data. Wiblen, S. and Marler, JH. (2021, p. 2595-2596) present the advantages that technology brings talent management (digital talent management), the most important being, in our opinion, the following:

- 1. Providing organizations with a mechanism that allows them to create and develop a unitary system in terms of talent management - all employees must go through the same processes and be subjected to the same practices
- 2. The possibility to create a unified and accessible talent database very useful in terms of access to a talent pool
- 3. Support in identifying those people in whom they must be invested and who must be kept within the organization - which facilitates the decision of the organization regarding the development of certain employees, as well as in terms of building personalized employee value propositions for these employees in order to retain them
- 4. Support in terms of identifying talents, by attaching labels like high performer, high potential or success to each person, following the analysis of experience, knowledge, both technical and personal, personal qualities, analysis that is made based on the required skills

Lin, L-H. and Wang, KJ. (2022, p.2) emphasize that in Work 4.0 talent management will be marked by uncertainty, the challenges that organizations will face, produced by technological evolution, being the reduction of the number of available talents and the changes in the characteristics of work. In these conditions, a sustainable development of talents will be more and more difficult to achieve, which is why talent retention will become essential. In order to overpass the shortage in e-skills and digital fluency capabilities, the organizations changed their recruitment policies and start to have a more global sourcing policy, than a local one (Thite, M., 2022, p.89). And global talent search and retention is facilitated by e-HRM (Bondarouk, TV. and Ruël, HJM., 2009, p. 509). In the same direction, the Gartner Executive Programs' report highlighted the concerns of the Chief Information Officers participating in the survey regarding the new qualifications that talents will have to gain in order to be able to put into operation the essential sketches to be made to the IT system, namely those related to digital

Radu MARIN, The Journal of Organizational Management Studies, https://doi.org/10.5171/2023.159868

design, data science, digital anthropology, which is why 39% of them believe that a major talent review could occur in IT (Gartner Executive Programs, 2014, p. 6). Even 44% from the executives "continue to demonstrate a lack of digital talent" (Shao, Z., Li, X., Luo, Y. and Benitez, J., 2022, p. 2). On the other hand, Hanelt, A., Firk, S., Hildebrandt, B. and Kolbe, LM. (2021, p. 17) underline the fact that hiring digital talents will not provide the benefits of ease of knowledge utilization and combination to the organization if no digital technologies are in place.

Regarding the positive impact that digitalization has on employee retention and talent attraction, i-SCOOP in "What is digital business transformation? The essential guide to DX" shows that employee retention is increased by digitalization (the intention to leave the organization is 4% in digital savvy organizations, compared to 20% in non-savvy ones), this also contributes to attracting talent: 71% of digitally mature organizations are able to attract talent, while only 10% of those in an early digital stage have this capacity.

Grigorescu, A., Pelinescu, E., John, AE. and Dutcas, MF. (2021, p.3-4) emphasize that digitalization has produced transformations that have led to change both in society and in the economy, given that it has led to the need to acquire digital skills, to be used both within the organization and in leisure. Within the current and rapid technological changes, human capital must acquire new technical qualifications and new behaviors that allow it to interact with new technologies, interact in virtual space, develop communication skills and align with the rules of ethics and responsibility (Grigorescu, A., Pelinescu, E., John, A.E. and Dutcas, MF.,2021, p.2).

Machine learning and artificial intelligence are able to offer to the organizations a more objective and fair talent management (Loyarte-López, E. and García-Olaizola, I., 2022, p. 2151160-15), improve both hiring and training processes (Zoltners, AA., Sinha, P., Sahay, D., Shastri, A. and Lorimer, SE., 2021, p. 89), support organizations in recruiting and selecting personnel (Palos-Sánchez, PR., Baena-Luna, P., Badicu, A. and Infante-Moro, JC., 2022, p. 2145631-3649), and reduce employee turnover (Lilly, A., Rajkumar, R. and Amudha, R., 2022). Big data offer to the employers the opportunity to enlarge and to diversify the talent pool and to use the necessary information in order to recruit the desired employees, with significant recruitment cost cutting (Garcia-Arroyo, J. And Osca, A. (2021, p. 4346). Social media are very useful in connecting job seekers with organizational recruiters and offer to the last the opportunity of experimenting a new recruitment strategy (Phillips-Wren, G., Doran, R. and Merrill, K., 2016, p. 454).

Methodology

Talent Management Definition

Based on the analyzed literature, we identified a number of 16 definitions that were given to the talent management construct over the time (Appendix 1). Starting from these definitions, we identified the main ideas that were used by the authors to define the analyzed concept.

Using these ideas, we have developed a definition of talent management that is as comprehensive as possible and that best reflects both the implication that this process has on organizations and on their employees, both on those considered to be talents and on other employees.

Establishing The Interest Regarding Analyzed Topics

We performed the research in order to identify the interest for the chosen topics and to find out the countries in which the largest number of papers was published.

Talent Management

Our research identified a number of 2.373 papers in Web of Science and a number of 2.482 papers in Scopus (Web of Science was interrogated on the 13th of April, 2023, and Scopus was interrogated on the 14th of April, 2023). From this number, in our analysis, we did not consider a number of 350 papers (14,10%) from Scopus (72 reported for 2023 and 278 papers reported for the period 2001-2010, view the reduced number of papers published / year - we considered only the years in which were published more than 100 papers / year). From Web of Science, we did not consider a number of 188 papers (7,92%): 47 reported for 2023 and 141 papers reported for the period 2002-2010, view the reduced number of papers published / year and in order to be consequent with the period considered for Scopus.

Digitalization

Our research identified a number of 18.409 papers in Web of Science and a number of 32.592 papers in Scopus (the databases were interrogated on the 24th of April, 2023). From this number, in our analysis, we did not consider a number of 3.821 papers (11,72%) from Scopus (2.108 reported for 2023 and 1.713 papers reported for the period 1922-2001, view the reduced number of papers published / year – we considered only the years in which were published more than 100 papers / year). From Web of Science, we did not consider a number of 1.449 papers (7,87%): 1.064 reported for 2023 and 385 papers reported for the period 1975-2001, view the reduced number of papers published / year and in order to be consequent with the period considered for Scopus).

Paper analysis in order to find the papers with reference to the analyzed topics

In order to perform the research, we used the query presented as follows "Talent management AND Digitalization"

Talent management - Bibliometric Analysis

We performed a bibliometric analysis on talent management using the following methodology:

- The file for import from Web of Science was obtained by using the condition "All fields" and "Full Record & Cited References"
- VOSviewer was used to perform the bibliometric analysis. For the file obtained from Web of Science was used "Co-occurrence" / "Author keywords" and 5 as the minimum number of occurrences of a keyword
- The software returns 220 keywords which met the threshold of a minimum 5 occurrences of a keyword, from a total number of 5.454 keywords (from which only 215 were connected to other items)
- The keywords considered as being irrelevant were eliminated (49 keywords)
- The option "thesaurus" was used in order to eliminate the words with the same meaning, but with a different way of writing.

Findings And Results

Talent Management Definition

We define talent management as the strategic and holistic approach, anticipating and meeting the organizational needs for human capital and assuring a systematic identification of key positions, based on activities and processes using both HR policies and complementary HR policies and an approach to business planning, in order to attract, to identify, to develop, to engage, to retain or to deploy a capable workforce, by managing the abilities, competencies, skills, needs, concerns, careers, fears and expectations of the people and by filling the key positions with high potential and high performing employees, so that the right person is in the right job, without unnecessary costs, for sustaining the business grow, the strategic business decisions and priorities, organizational performance, the organization's sustainable competitive advantage, by ensuring the essential knowledge and strategies for improvement and change and by meeting the organizational mission and vision.

Results regarding the interest shown in the analyzed concepts

After performing the analysis, we obtained the following results for the evolution of the papers published every year and for the countries in which they were published. Only for talent management were analyzed also the number of papers published by the authors with the biggest authority in this domain.

Talent Management

The evolution of the number of papers published every year demonstrates the increasing interest for the topic talent management.

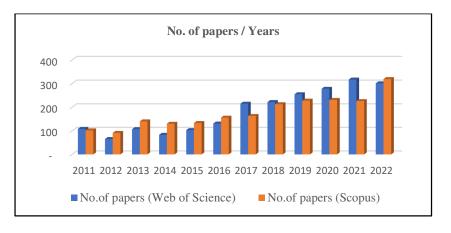


Fig.2. No. of papers published every year on the topic talent management

However, our results are in line with the results mentioned by other authors: research on talent management was quite low until the year 2008. McDonnell A., Collings DG., Mellahi K. and Schuler R. (2017, p. 89), following their analysis, found that 93% of the articles published on talent management were published after 2008, fact that demonstrates the growing interest on this topic. If in the first five months of 2013 the authors identified a number of 14 papers, our research identified in the first four months of 2023 a number of 47 papers in Web of Science and a number of 72 articles in Scopus. The bellow charts present the number of papers published in the main 10 contributing countries to the development of talent management research, which represent 74,46% from the articles indexed in Web of Science and 71,51% from the articles indexed in Scopus. From the number of papers published in these countries, 53,99% of the papers indexed in Web of Science were published in only three countries (USA, United Kingdom and Hungary) and 69,30% from the papers indexed in Scopus were published in only four countries (USA, United Kingdom, India and China). This demonstrated that the interest regarding this topic was developed only in a limited number of countries.

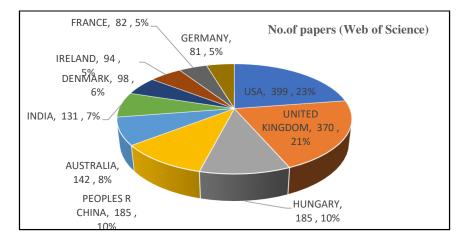


Fig.3. No. of papers published in each country on the topic talent management (Web of Science)

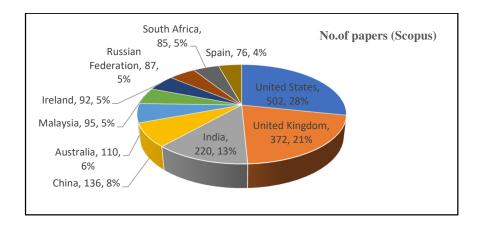


Fig.4. No. of papers published in each country on the topic talent management (Scopus)

Our research identified that the following authors were the main contributors in the field of talent management.

	No. of published papers	
	Web of Science	Scopus
Scullion, H.	41	35
Collings, D.G.	35	31
Vaiman, V.	28	17
Dries, N.	22	20
Sparrow, P.	18	22
McDonnell, A.	16	23
Tarique, I.	16	1
Farndale, E.	15	13
Thunnissen, M.	14	10
Gallardo-Gallardo, E.	12	8
Schuler, R.S.	8	7
Cappelli, P.	4	3

Table 1: Main contributing authors - talent management concept

We tried to understand why the quantity of papers written on the topic talent management is so limited, view that from the literature review we concluded that it is a concept of main interest. We perform both in Web of Science and in Scopus an interrogation for related topics: talent pool, talent acquisition, talent attraction, talent identification, talent development and talent retention, and we obtained the following results (interrogation made in both databases on 2^{nd} of May, 2023):

	Web of Science	Scopus
Talent management	2,386	2,503
Talent pool	606	747
Talent acquisition	122	236
Talent attraction	454	172
Talent identification	1,442	1,252
Talent development	6,004	2,257
Talent retention	213	285

Table 2: No. of papers written on each topic

An explanation regarding the reduced number of published papers could be the one offered by Collings, DG., Scullion, H. and Vaiman, V. (2015, p.234-235) which finds that, due to the nonexistence of an agreement regarding the conceptualization of talent management, there is still a skepticism in the academic environment about this concept, which makes it rarely used as such in the papers. This fact leads to an underestimation of the volume of theoretical and practical papers on this subject and, on the other hand, it can create difficulties in identifying

certain works with reference to talent management, due to the use of erroneous keywords.

Digitalization

The evolution of the published papers demonstrates that digitalization became a more and more researched topic and that the interest in this concept increased mainly starting with 2017.

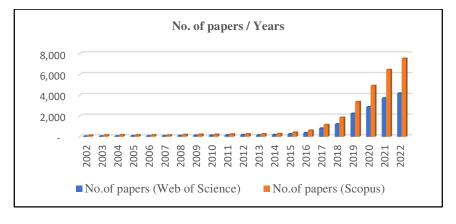
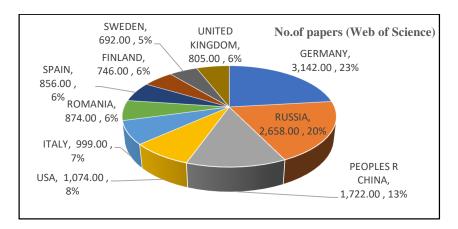
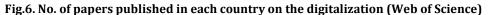


Fig.5. No. of papers published every year on the topic digitalization

As in case of talent management, we analyzed the number of papers published in the main 10 contributing countries. The bellow graphs present the number of papers which were published in these countries, representing 73,70% from the articles indexed in Web of Science and 69,76% from the articles indexed in Scopus. The percentage represents the percentage of papers published in each country in reference with the total number of papers published in these countries.





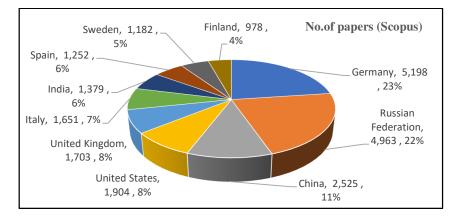


Fig.7. No. of papers published in each country on the digitalization (Scopus)

Articles with reference to the analyzed topics

The results of our research identified a small number of articles which treat at the same time talent management and digitalization.

Quemy	No. of papers found	
Query	Web of Science	Scopus
Talent management AND Digitalization	17	35

Table 3: of papers ident	ified by using the query
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An explanation for the reduced number of articles in which the relations between the two concepts are analyzed could be found in the above charts. The countries which are main contributors regarding the articles which approach talent management are the USA, the United Kingdom, India, Hungary and China, but the largest number of articles referring to

digitalization were published in Germany, Russia and China. In order to demonstrate our hypothesis, we performed a co-authorship by country's bibliometric analysis using the talent management database exported from Web of Science. The following table demonstrates the weak relationships of cooperation as we already assumed.

Digitalization	Link strength		
Talent management	Germany	Russia	China
USA	7	2	19
United Kingdom	8	2	12
Hungary	1	0	0
China	2	4	

Table 4: Link strength – co-authorship by country

Another explanation could be that, in many works referring to talent management, digitalization appears under different designations as: digital tools, digital technology/technologies/techniques, digital platforms, digital transformation, artificial intelligence, machine learning, virtual reality, augmented reality, cloud computing, computerization or, even, automation.

Talent management – results of the bibliometric analysis

After performing the bibliometric analysis, we obtained the following network visualization:

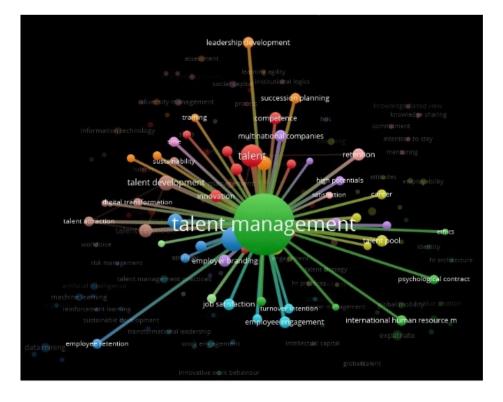


Fig.8. The most widely used keywords related to talent management– by VOSviewer Source: Author's own research

The strongest link strengths that we determined between talent management and other topics are presented in the following table:

Analyzed concept	Link strength
human resources management	79
talent	74
talent development	38
human capital	28
human resources	28
talent retention	26
leadership	23
multinational companies	22
talent pool	22
talent identification	21
employee engagement	20
knowledge management	18
retention	18
employer branding	16
high potentials	16
performance	15
talent attraction	15
leadership development	14
organizational commitment	14
succession planning	14

Table 5: Link strength between talent management and concepts presented bellow

The link strengths that we obtained for human resources management and talent are in line with what we expected from the literature review. Unexpected low results were obtained for the components of talent management (talent retention, talent identification, talent attraction) and also for talent pool. Withal, unexpected low link strengths were obtained with concepts which are determinants for talent management: employee engagement, employer branding, talent attraction, leadership development, organizational commitment and succession planning. The conclusion could be only one: most of the articles written on the topic of talent management do not debate also about its components, which are analyzed in articles only in relation with the above-mentioned organizational behaviors and processes. Regarding the low link strength obtained between talent management and talent attraction, it is interesting to analyze the bellow images.

Radu MARIN, The Journal of Organizational Management Studies, https://doi.org/10.5171/2023.159868

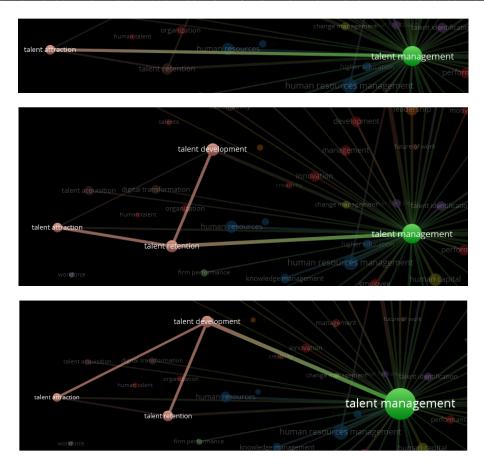


Fig.9. Links between talent management and its components- by VOSviewer *Source: Author's own research*

We can remark thar talent attraction is linked to talent management both directly and by the intermediate of talent retention and talent development. Also, talent development and talent retention are linked to talent management both directly and by the intermediate of each other. This means that talent attraction is influenced by talent development / talent retention and talent development and talent retention influence each other. It is normal. A talented employee who is satisfied with his/her development within the organization has no turnover intention and advocates for the employer outside the organization, contributing to the increase of employer branding. On the other hand, a talent without turnover intention is interested in developing itself inside the organization and a continuous development program determines the talent to remain inside the organization.

It is very interesting to underline the fact that Cluster 8 (brown) contains "talent acquisition", "talent attraction", "talent development" and "talent retention" together with "digital transformation", "digitalization", "information technology", "future of work" and "social networks", which means there are semantic connections between these concepts.

But, despite this fact, we identified a link strength of only 3 between talent management and digitalization. View the small number of articles in which the two topics are co-occurrents, the result was expected.

We tried to find out if digitalization has strongest link strength with the components of talent management and we obtained the following results:

Web of Science (link strength)	Digitalization
Talent acquisition	1
Talent attraction	1
Talent development	1
Talent retention	1
Total	4

Table 6: Links strength between digitalization and talent management components

View the unexpected results, we extend our research and we perform a bibliometric analysis using the concept "digitalization", in order to identify the topics to which both talent management and digitalization are connected.

We found a number of 22.049 papers in Web of Science, which were processes on the 2nd of May, 2023. The file for import from Web of Science was obtained by using the condition "All fields" and "Full Record & Cited References"

VOSviewer was used to perform the bibliometric analysis. For the file obtained from Web of

Science was used "Co-occurrence" / "Author keywords" and 50 as the minimum number of occurrences of a keyword. The software returns 321 keywords which met the threshold of a minimum 50 occurrences of a keyword, from a total number of 59.821 keywords, and 115 keywords were eliminated, view their irrelevance for our study and the option "thesaurus" was used.

The bibliometric analysis returns the following network visualization.

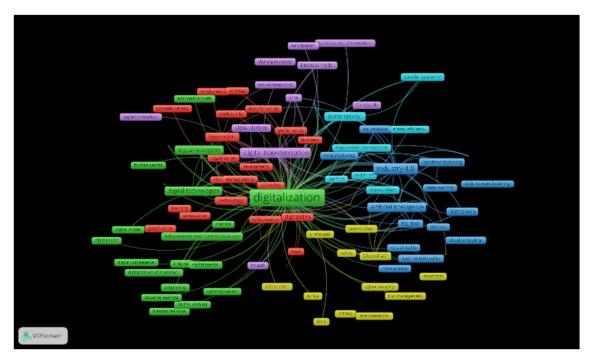


Fig.10. The most widely used keywords related to digitalization– by VOSviewer *Source: Author's own research*

Using both bibliometric analyses performed before we tried to identify the concepts with which both talent management and digitalization are connected. The bellow table presents the main concepts linked with talent management and the link strength between these topics and digitalization.

Link strength	ТМ	Digitalization
human capital	28	33
leadership	23	31
knowledge management	18	20
performance	15	23
competence	13	26
development	13	22
innovation	10	197
SME	10	96
sustainability	9	190
training	8	18
digital transformation	7	334
ethics	7	28
globalization	7	71
skills	7	27
strategy	7	41
management	6	57
artificial intelligence	5	181
risk management	4	20
technology	4	149
big data	3	114

Table 7: Links strength between talent management, digitalization and other topics

We can remark that the most balanced topics in term of link strength, connected both with talent management and digitalization, are "knowledge management", "human capital". "leadership" and "performance".

Conclusions

Taking into account the growing interest that the topic talent management have, both in the academic environment and in the management, we expect to identify a larger number of papers published on this topic. An explanation for this could be that, for a very long time, only companies have focused on this subject, the academic environment being, for a long time, skeptical of this subject. The fact that there has been controversy over the definition of talent management has led many researchers to avoid using the term and to publish their papers on the subject using other approaches. This could also lead to confusion about keywords to be used when it is desired to identify the works that address this topic.

In the work was formulated a definition of talent management that tries to present a larger picture of this concept. The definition was obtained by joining within a unitary definition the elements considered to be essential (Appendix 2), identified by analyzing some definitions given over time (Appendix 1).

The bibliometric analysis provided results that did not meet the expectations we had from the literature review. In the research undertaken, we found that talent management influences, but especially is influenced by, digitalization. Or, following the bibliometric analysis, we identified the weak link strengths between management and the other analyzed topic. It is worth mentioning that the links have only been identified between talent management and digitalization, there being no connection between them and global talent management and, respectively, strategic talent management. In conclusion, the lack of a distinction in the work between talent management, strategic talent management, and global talent management is not a limitation of research.

Radu MARIN, The Journal of Organizational Management Studies, https://doi.org/10.5171/2023.159868

Weak link strength was obtained also for the topics very closely related to talent management: talent, talent acquisition, talent attraction, talent development, talent identification and talent retention. The only explanation regarding the result obtained is that, being new, the topics were not studied yet in relation with each other for a large number of researchers.

As we already concluded, it is possible that talent management and its components have been studied in relationship with other topics that are sometimes used instead of digitalization: digital tools. digital technology/technologies/techniques, digital platforms, digital transformation. And, considering the link strength found between digitalization and human capital, it is possible that most of the papers tried to study only this relationship.

We consider this fact as an opportunity for further research.

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Ashton, C. and Morton, L. (2005)	Talent management is a strategic and holistic approach to both HR and business planning or a new route to organizational effectiveness. This improves the performance and the potential of people – the talent –who can make a measurable difference to the organization now and in future. And it aspires to yield enhanced performance among all levels in the workforce, thus allowing everyone to reach his/her potential, no matter what that might be.
Cappelli, P. (2008)	At its heart, talent management is simply a matter of anticipating the need for human capital and then setting out a plan to meet it
Collings, DG. and Mellahi, K. (2009)	Strategic talent management is defined as activities and processes that involve the systematic identification of key positions which differentially contribute to the organization's sustainable competitive advantage, the development of a talent pool of high potential and high performing incumbents to fill these roles, and the development of a differentiated human resource architecture to facilitate filling these positions with competent incumbents and to ensure their continued commitment to the organization
Tarique, I. and Schuler, R. (2010)	Global talent management is about systematically utilizing IHRM activities (complementary HRM policies and policies) to attract, develop, and retain individuals with high levels of human capital (e.g., competency, personality, motivation) consistent with the strategic directions of the multinational enterprise in a dynamic, highly competitive, and global environment.
Mellahi, K. and Collings, DG. (2010)	Global talent management involves the systematic identification of key positions which differentially contribute to the organization's sustainable competitive advantage on a global scale, the development of a talent pool of high potential and high performing incumbents to fill these roles which reflects the global scope of the MNE, and the development of a differentiated human resource architecture to facilitate filling these positions with the best available incumbent and to ensure their continued commitment to the organization

Appendix 1 - Talent Management Definitions

Scullion, H., Collings, DG. and Caligiuri, P. (2010)	Global talent management includes all organizational activities for the purpose of attracting, selecting, developing, and retaining the best employees in the most strategic roles (those roles necessary to achieve organizational strategic priorities) on a global scale. Global talent management takes into account the differences in both organizations' global strategic priorities as well as the differences across national contexts for how talent should be managed in the countries where they operate.
Hatum, A. (2010)	Talent management is a strategic activity aligned with the firm's business strategy that aims to attract, develop, and retain talented employees at each level of the organization
Dorton, JK. (2010)	Talent management represents the approach to attract, develop, manage, and retain a capable workforce that exemplifies the organization's cultural core, leadership qualities and change initiatives
Elegbe, JA. (2010)	Talent management is not merely a process of managing physical human bodies or disparate human resource management processes and systems, but rather an integrated and comprehensive approach to managing the abilities, competencies, skills, needs, concerns, careers, fears and expectations of the people that an organization values and needs to make it great and highly effective. Successful talent management is driven by a 'talent mindset' in which every manager in a firm regards talent management as their business and not the sole responsibility of the HR department.
Stitt, D. (2012)	Talent management consist in ensuring the right person is in the right job at the time
Cappelli, P. (2014)	A definition that is consistent with traditional approaches and captures what academic researchers have been doing under the heading of talent management is as follows: the process through which organizations anticipate and meet their needs for talent in strategic jobs, the clear focus on strategic jobs is the new idea in academic studies. This definition is sufficiently suited to the academic need to stimulate theory development while reflecting the interests of practitioners, for whom the interest in talent management is strongly focused on a small number of roles, typically senior management and executive positions
Benitez-Amado, J., Llorens- Montes, FJ. and Fernandez- Perez, V. (2015)	Talent management is a capability determined by working culture, working conditions and talent development.
Schuler, RS. (2015)	Talent management policies and practices are those that are specifically created and implemented for the purpose of managing talent to meet the talent management challenges facing the company, such as: (a) attracting, selecting, retaining, energizing and focusing the most talented individuals; or (b) reducing or relocating these same individuals either because there is a surplus of talent; or they are in the wrong place at the wrong time; or even because there is equally valued, but less expensive talent available elsewhere.
Gallardo-Gallardo, E. and Thunnissen, M. (2016)	Talent management is aimed at the systematic attraction, identification, development, engagement/retention and deployment of high potential and high performing employees, to fill in key positions which have significant influence on organization's sustainable competitive advantage
Saxena, V. and Srivastava, RK. (2018)	Talent management is a key HR function consisting of Planning, hiring, developing, and retaining the talent in any organization to ensure that the required talent pool is available to sustain the existing business, grow the business, strategic business decisions
Al Aina, R. and Atan, T. (2020)	Talent management sustains organizational performance by providing essential knowledge and strategies for improvement and change; it

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helps organizations to recognize the most talented employees to become the potential future leaders, whenever there is a vacant position. The objective of talent management is not only to recognize and focus on talented employees, but also guarantees that the developmental and growth strategies are associated with the
organizational mission and vision, resulting in the prosperity and sustainability of the organization

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Appendix 2 - Main aspects identified in talent management definitions

Ashton, C. and Morton, L. (2005)	Elegbe, JA. (2010)
strategic and holistic approach	integrated and comprehensive approach
approach to HR	managing the abilities, competencies, skills, needs, concerns, careers, fears and expectations of the people
approach to business planning	 people valued and needed by the organization in order to make it great and highly effective
organizational effectiveness	• as their business and not the sole responsibility of the HR department
• improves the performance at all levels in the workforce	
improves the potential of people	
• a measurable difference to the organization now and in future	
allowing everyone to reach his/her potential	
Cappelli, P. (2008)	Stitt, D. (2012)
anticipating the need for human capital	ensuring the right person is in the right job at the time
• setting out a plan to meet it	
Collings, DG. and Mellahi, K. (2009)	Cappelli, P. (2014)
systematic identification of key positions	 process through which organizations anticipate and meet their needs for talent in strategic jobs
• development of a talent pool of high potential and high performing incumbents	• focused on a small number of roles, typically senior management and executive positions
 filling the key positions with high potential and high performing incumbents 	
ensure their continued commitment to the organization	
Tarique, I. and Schuler, R. (2010)	Benitez-Amado, J., Llorens-Montes, FJ. and Fernandez-Perez, V. (2015)
complementary HRM policies and policies	• a capability determined by working culture, working conditions and talent development
 attract, develop, and retain individuals with high levels of human capital 	
• consistent with the strategic directions of the organization	

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	r
Mellahi K. and Collings DG. (2010)	Schuler, RS. (2015)
systematic identification of key positions	challenges facing the company
contribute to the organization's sustainable competitive advantage	attracting, selecting, retaining, energizing and focusing the most talented individuals
 development of a talent pool of high potential and high performing incumbents 	 reducing or relocating the most talented individuals because there is a surplus of talent
 filling the key positions with high potential and high performing incumbent 	• reducing or relocating the most talented individuals because they are in the wrong place at the wrong time
ensure their continued commitment to the organization	• reducing or relocating the most talented individuals because there is equally valued, but less expensive talent available elsewhere
Scullion, H., Collings, DG. and Caligiuri, P. (2010)	Gallardo-Gallardo, E. and Thunnissen, M. (2016)
• attracting, selecting, developing, and retaining the best employees	 the systematic attraction, identification, development, engagement/retention and deployment
filling the most strategic roles	high potential and high performing employees
achieve organizational strategic priorities	• filling the key positions with high potential and high performing employee
organizational strategic priorities	 key positions which have significant influence on organization's sustainable competitive advantage
Hatum, A. (2010)	Saxena, V. and Srivastava, RK. (2018)
strategic activity	• a key HR function
 aligned with the firm's business strategy 	 planning, hiring, developing, and retaining the talent
 aims to attract, develop, and retain talented employees at each level of the organization 	ensure that the required talent pool is available
	• sustain the existing business, grow the business, strategic business decisions
Dorton, JK. (2010)	Al Aina, R. and Atan, T. (2020)
• attract, develop, manage, and retain a capable workforce	sustains organizational performance
 organization's cultural core, leadership qualities and change initiatives 	 providing essential knowledge and strategies for improvement and change

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• helps organizations to recognize the most talented employees to become the potentia future leaders, whenever there is a vacant position	
 guarantees that the developmental and growth strategies are associated with the organizational mission and vision, resulting in the prosperity and sustainability of the organization 	

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