LEADING IN THE DIGITAL AGE: STRATEGIES, CHALLENGES, AND OPPORTUNITIES FOR 21ST CENTURY LEADERS

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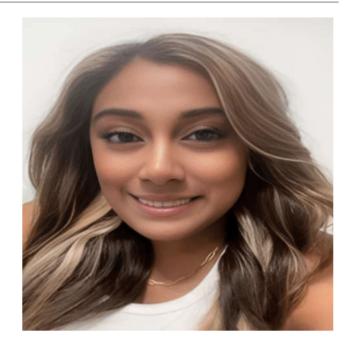
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Theme of the Article: Leadership



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Bio

Prof. Dr. Parin Somani, Director of LOSD, is a distinguished Academic Scholar, TEDx Speaker, and Author, honoured with the title of Mrs. 2022 Universe and crowned Bollywood Actress Mahek Chahal. With 2 Academic and 6 Honorary Doctorates. she's multi-awardа winner and humanitarian. She is a prolific author of 19 books, and a record-breaker recognized in Guinness World Records and multiple prestigious record books. She was invited to deliver a Keynote Speech at Harvard, Cambridge, Oxford University and many more. In her global travels to 127 countries, Prof. Dr. Parin Somani tirelessly contributes to education, women empowerment, and youth development.

Bio

Roxanne Boodhoo is an accomplished professional with a diverse and versatile background. Her extensive academic training has equipped her with various skills and knowledge, enabling her to excel in multiple roles. Roxanne is known for her strong work ethic, diligence, and undertaking commitment to responsibilities assigned to her. She is deeply passionate about helping and supporting others, making compassionate and empathetic individual. Throughout career. her Roxanne has consistently demonstrated a dedication to making a positive impact her through professional work community involvement, striving to uplift those around her.

Objectives

To understand the 'digital leadership' model. This model is a theoretical construct which represents the results. It is presented as an ideal type which may be generalisable, acting as a cognitive template for assessing the levels of digital leadership around the individual class and program leaders in pedagogical digital leadership.

Abstract

leadership Effective in todav's business environment demands more precise fine-tuning of functions and work leading processes. to higher levels of both task people mastery. and Business leaders' mobility control are and increasingly shaped in the digital space, which leads to important changes in the requisites for their efficiency. Diaital virtual leadership and organisations are necessary constructs supported the by potentials and real-life applications of a spectrum information of modern and communication technologies. The model adopted by organisations is dependent not only on digital strategic importance but also on characteristics. structure The purpose of the digital strategy is also important. In fact, the digital strategy can be system-oriented oriented and to the customer.

As digitization proliferates, digital strategies are tending to become a part of business of the entity. strategy encompassing not only operational and tactical areas but also being an important part of strategic areas at the corporate and business unit levels. objective of this study is to understand the 'digital leadership' model. This model is theoretical а construct which represents the results. It is presented as an ideal-type which may be generalisable, acting as a coanitive template for assessing the levels of digital leadership around individual class and program leaders in pedagogical leadership. The study reports results of original the research about the strategies, models, and management practices in the digital era and indicates possible avenues

Keywords

Leadership, Digital Age, 21st Century, Communication One of the common assumptions is that digital transformation is inevitable process and one of the most important innovations in the current period as it can trigger the development of companies, industries. sectors. whole economies. Furthermore, there are numerous studies focused the impact digitalisation on business and economy, while less emphasis is placed leadership—the subject of this paper. The objective of the study was to gather and discuss the most significant developments, trends. theories, and strategies of the digital economy. The summarising studv above issues will provide a knowledge map for the development of digital leadership potential (Lokuge & Duan, 2023). Digital transformation significant represents а focus in the academic and practitioner fields of business studies and management. This area has been increasing in importance since 2015 when digital transformation was first mentioned as a significant

organisation development and was highly factor ranked by the business management community. Although the issue digital transformation developing dynamically. few scientific disciplines discuss this matter. particularly from a point of view of business strategy. Despite the fact that the phenomenon of digital transformation itself undisputed, it should be stressed that most scientific papers concentrate mainly on the detailed analysis of instant digital transformation within industries or companies; there are not many attempts to underpin general or strategic issues. For the purpose of this study, all papers in the domain of business strateav and digital transformation were analysed. There are few attempts also present a comprehensive of business model strategies in the digital age.

1.1 Background and Rationale

The model adopted by organisations is

dependent not only digital strategic importance also on structure characteristics. The purpose of the digital strategy is also important. In fact, the digital strategy can be systemoriented and oriented to the customer. As diaitisation proliferates, digital strategies are tending to become a part of business strategy of entity, encompassing the not only operational and tactical areas but also being important an part strategic areas at the corporate and business unit levels. Moreover, in literature few studies exist about the digital governance and lifecycle management of digital strategic resources even if they are mandatory for the success of digital initiatives. New models were discussing the developed importance of various competencies in the organisations, including digital governance resources appropriate for digital transformation being aware about the opportunity of digital and solution that can be developed. These models not only introduce new critical success factors (see for both the attention to strategic level) but are also useful to pose critical

reflection about dynamic requirements that could affect internal competences of organisations (D'Cruz et al., 2016).

The literature about digital transformation is aware of the challenges and benefits that come from it, but it does not often address the role of leaders managing this transformation (Cortellazzo et al., 2019).

Just a few decades ago, the goal of a strategy was the continuous improvement of existing conditions. In our opinion, a digital strategy should be understood as a logical for system differentiating managerial tasks at corporate, business, and functional levels. Strategic tasks solve questions about "what to do" in order to create and develop resources, how to manage them and control the value thev should generate. Finally, they solve which approach would lead to a sustainable competitive completely advantage different from traditional Conducting ones. strategically directed activities is not only directed improving at existing areas, but includes a broad search for, and analysis of,

new fields of activities such products. processes. markets. services. innovation. customers. partnerships, competition etc. If you compare the traditional and the digital strategic approach, you will notice significant differences. Digital strategies should be thought the of as of digital stewardship resources and build on technology knowledge, skills, competences, leadership competences, organisational culture and governance. Moreover. digital strategies can be located at various levels of the enterprise and very often they should, in our opinion, be managed and developed different in structures rather than exploiting existing ones. Four models of deploying diaital strategies have been identified by (Türk, 2023) with governance requirements increasing progressively.

1.2 Significance of the Study

At the SPD 4.0, smart maintenance units can be enabled through Industry 4.0 technology to execute maintenance-supporting work independent from, in time with, the scheduled production processes also include repair and retro fit as well as checking and reevaluation tasks that are autonomous with or abridged machine and of connected production equipment. In connection with the option to store restoration and discrepancy recognition tasks in the course of the necessary digital master data, the SPD 4.0 becomes possible. This results in significant added value in that repair work is reported directly to the master data, which enables digitised process management for all affected production systems and physical components.

Digital Competence:

The courage to constantly change and further educate oneself. Digital transformation and Industry 4.0 pose new requirements for the design and operation of production systems. Veritable partnership collaboration, new digital services use cases in areas far beyond

circulated technology, and evolving company models need to be looked at in the context of NDE in relation to life cycle stages, life cycle phases. presentation sections. and useful lifetimes. In particular, the control strategy of NDE 1.0 has become outdated and has to be brought in line with digital transformation and Industry 4.0.

1.3 Scope and Structure

aims paper conceptualise and assess a new form of leadership, that is, digital leadership in 21st century. Specifically, paper investigates different facets of digital leadership (role definition. characteristics. competencies, and leading factors) and formulates strategies and tactics for the new type of elite leaders who are shouldering radical digital transformation in organisations This study different incorporates digital leadership characteristics and its influence on organisational culture. strategic orientation and innovation performance.

1.4. Aim of the Research

Pedagogical leaders map out and make these technical. operational. resourcing and HR strategic decisions. Digital technology in education has now reached epidemic proportions in most formal educational institutions of the full range. Detailed research is required to forward more generalisable and effective pedagogical digital orbit interpretations for leadership. program Program leadership research is identified as critical in digital "greenfield sites" where `'also-ran' static seminars no longer cut it for student recruitment purposes. This research is important, as the social role and mission of universities are undergoing profound change due to the needs of society and the march of advancing technologies. For university leadership, digital transformation is a major concern. Senior leaders must understand digital trends more deeply in order to offer policy. guidance and HR

responses to these managerial challenges from research (Wang et al., 2022). The objective of this study is to understand the 'digital leadership' model. This model theoretical а construct which represents the results. It is presented as an ideal-type which may be generalisable, acting as a template cognitive for assessing the levels of digital leadership around individual class and program leaders in pedagogical digital leadership. This construct should indicate the levels of orbit' participants traverse between within its development, design, deployment and transformative cycles of bringing all staff digital operating systems online. with all the human resources implications this space station of advanced digital technology and pedagogy might conjure (Ghamrawi & M. Tamim, 2023).

2. Methodology

The development of digital technologies, the application of big data analytical methodologies, and the advent of artificial intelligence increasingly allow enterprises business strategic objectives

of through path exploratory innovation to afford dynamically capabilities of organisational adaptation, which the replaces traditional path of innovation exploitative supporting defensive mechanisms (Grigoriou, Doumpa, & Carre, 2013). As evidenced in related works. exploratory innovation is positioned as a part of an important diagnosis of the reasonable performance range to afford dynamic capabilities, especially in a constant need to respond radically novel. incremental technological advancements then apply mechanisms learning internalise their uncertain impact with only scarce and uncertain cues (Romanelli & Tushman, 1994, 1996). This distinguishes characteristic knowledge, and capabilities held by exploratory innovators are broader in scope to detect, develop, absorb, assimilate, and reconfigure into winning capabilities (Lavie & Rosenkopf, 2006). Thinking about the special resource accumulation process with respect to exploratory innovation strategy, survive this reinforcing environmental

will turbulence require executives lead and cultivate loyalty amond personnel performing new exploration, ideas not simply reducing Florence nightingales related to Dynasties and SO on. (Wang et al., 2022) In Jimenez (2019)'s viewpoint with respect to the first question, the development of digital technologies has produced several changes inside organisations, also reshaping the leadership roles. Some authors argue that these changes involve a simple transposition of past behaviours and the competencies to environment. digital whereas others anticipate a more radical remodelling of the concept leadership. Some of the main impacts of digitalisation on leadership theory regard leaders' the selection tasks. leadership styles, and the required competencies. Recently. the scholars underscored the necessity updating leadership development, outlining a shift from leaders leaderships (Munir, 2018; Boccafurni & Del Giudice. 2019; Gilmore & Reilly. 2019).

In this new context. leadership becomes an attitude exploration of promoting connection, inclusion, cooperation, empowerment, communication. and learning (Day, 2001; Nahapiet & Ghoshal, 1998), and virtual leadership is competencies-based approach to leading people places, across tasks through acquiring knowledge, skills. and attitude development (Avolio, Kahai, & Dundon, 2014).

In recent decades, the digital revolution has been radically reshaping the ways people operate in many aspects. This revolution has challenged leaders and forced them to shift their distinctive competencies to digital context. "leader-centric" approach might not be recognised and acceptable in the digital age.

2.1 Selection Criteria for Literature

Key themes related with the conceptualisation and operationalisation of digital leadership strategies,

challenges and opportunities for the 21st century leaders, the impact on leadership, performance and resource pooling for diaital leaders success. readiness indicator for the HR supply assurance and lona-term success and finally the digital leader competencies skill and requirement such as tactical agility, strategic foresiahts. resistance change, digital readiness and entrepreneurial behaviour were identified (Wang et al., 2022). The review background research identified certain research includina gaps of comprehensive lack theoretical explanations of the positive and negative impacts of digital leaders on changes towards diaital innovations. absence empirical follow-up studies, lack of long-term studies, studies on digital leadership to develop measurement scales for transformational digital leaders, lack theoretical supports and empirical studies for the development of transformational measures for digitalised mature and not-an organisations, lack of longitudinal studies and the inability to understand the digital leaders ´dynamic

impacts in times of risks and crisis situations, lack of empirical follow-up crossindustry observation studies on the long-term effects of digital leadership connection to its cultural predictive models that are to be explicitly from derived the business companies model logic (Ciampi et al., 2021). Transform knowledge related to technology, digital business trends, drivers, uncertainties and into strategic and operational insights and thoughtful assessments that help organisations their and stakeholders understand what their shared future may hold, what could limit their possibilities and what actions they can take to mitigate future threats (visioning).

· Anticipate and internalise the new rules of business enabled by digital technology through executing building and comprehensive digital business and technology strategy that aim to create valuable digital new concepts, business models, products, and services. while still fulfilling the Enterprise's present strategies and operations.

Create options for fast in responses reaction unforeseen opportunities, or competitive or market without changes compromising Enterprise's long-term strategic initiatives (cultural flexibility). · Execute the fit-to-purpose soft capabilities model that is ubiquitous across digital leadership and considers the ability to network (globally), with the objective of sharing industry specific standards and practices, knowledge and expertise (brain ware).

2.2 Data Collection and Analysis

This research study fed into the academic literature on strategy formation in the diaital era by: firstly. providing new knowledge on digital strategies consequences, and secondly, closing a gap in understanding through addressing the qualitative, contextual and phenomenological aspects of the pursuit of digital strategies. This study provides significant а contribution to the academic discourse on strategic thinking and

extends the knowledge 'on the ground' with individual perceptions and insights. Furthermore, it enriches the extant body of literature by questioning the established views through the specific of diaital phenomenon strategies and contributes to a better understanding digital strategies practice (D'Cruz et al., 2016) (Khadpe et al., 2024).

3. Results and Discussion

Leaders need to be able to not only deploy technology and digital tools and systems to operate more effectively, but also understand how to facilitate authentic human connections in digitally mediated interactions. Presently, individuals rely in massive ways both on technology for formal agreements and processes and human interaction for important informal decisions logistical and planning. The result data might better help guide government, business, and educational decision makers who have an immediate influence on the direction of leadership

development and training programs in the areas of leadership that staff report as underprepared in the digital world.

Leaders were defined as individuals who report being in mid to high-level positions in organisations, having the responsibilities of leadership over staff, and possessing supervisory powers. Leaders were surveyed the skills about and strategies that are crucial motivating retaining their employees in the digital age. With feedback from approximately 1500 data points. the researchers able identify were to various strategies and differences examine in responses across diverse sectors (service, utilities, healthcare, and education government). This research found different strategies and skillsets that leaders report as necessary with commensurate higher levels of leadership and discovered a growth in increased new and importance of a select set of leadership strategies and skills in these digital times. Data findings revealed how individuals in

the lower two levels responded differently importance to several items when compared to senior leaders from these corporations. Furthermore. this presentation will discuss items such that differences can lead to a understanding ways to train and develop leaders who need to become more proficient in these high prevalence skill areas.

3.1 Emerging Strategies for Digital Leadership

Not many respondents say organisation's their leadership practices keep pace with industry instability, motivation, and innovation, although most companies say their organisations are undertaking major transitions. Are business of their outcomes ΙT Ventures dependent on digital leadership for these We leaders? link replenishing and distributing the talent with posturing to reward and driving prosperity, well as as integrating IT and the organisation in various scenarios.

We find that IT experts who function in а powerful digital environment with replenishing and distributing skills could prevent the expertise and leadership qualities needed. Organisations that create talents provide a context in relation to a clear path to and innovate adiust. Companies utilising much of these mechanisms had wellness soon.

Digital leaders use innovative ideas and advanced authorisation tools, coupled with fresh team abilities, to remain competitive. They develop a digital leadership style and deal with fragmented, userdriven companies. They initiate and support organisational alterations experiences analysis focused on digital leadership. They understand the reauired capabilities utilise and advanced authorisation mechanisms and skills to digital encourage alterations executed by a generation of new employees. Digital leaders build the digital capital of their organisations by assimilating the business side and collaborating to innovate with IT experts.

They steer in an implementation style of the next-gen control in which the digital network becomes the driving force, dynamically changing their leadership design for scenarios. various Althouah centuries of excellent leadership principles continue to have their place, leaders must produce innovative versions of these (and entirely invent new concepts and techniques) to keep pace with market disruption.

3.2 Key Challenges Faced by 21st Century Leaders

By complex leadership, we refer to a wide variety of situational. weathersensitive. models and definitions. We suggest that leadership in this matter means delivering thoughtful, systematic. directed. and differentiated rewards that maximise everyone's advances and quarantee a team that areat followsthrough to its total capacity.

In the face of several unexplained institutional challenges all over the globe, the key purpose of FCCE is to take a unique perspective toward establishing alliance relationships with "competent" employees in critical homeowner who relationships. realise participate together with the SPL in the creation and distribution of critical knowledge. The distinction acceptable between non-acceptable outputs, or the subjective skill in various roles, is underpinned by the identified community configuration. SPLs are a source of support, career advancements. and productivity profits. and **FCCE** implemented. is Today's 21st century leaders experiencing unparalleled waves of opposition. novelty. preparedness, and unanticipated problems than those at any time previously. In response, they seek out places knowledge and experience relationships that allow them to examine and build upon their contributions as individuals, setting aside plans lead their to institutions to new degrees of development and economic influence.

This new set of leadership problems necessitates new set of competencies and characteristics that will be difficult to demonstrate. The expanded pace and complexity of alobal developments have shattered the traditional divisions of work in which leaders operated, divided between a limited number of organisations. In our opinion, the leadership that limits. drives overcomes innovation and transformation forward, and maintains stability complex dynamic professional environments is crucial. The process that around revolves the interests of SPIs in the context of the twenty-first century is being called cultivating FCCE.

3.3 Opportunities for Growth and Innovation

The key opportunities have arisen out of the complex and dynamically changing environment and falling prices for technological breakthroughs. Hon Ference particular, through the continuously revolutionising

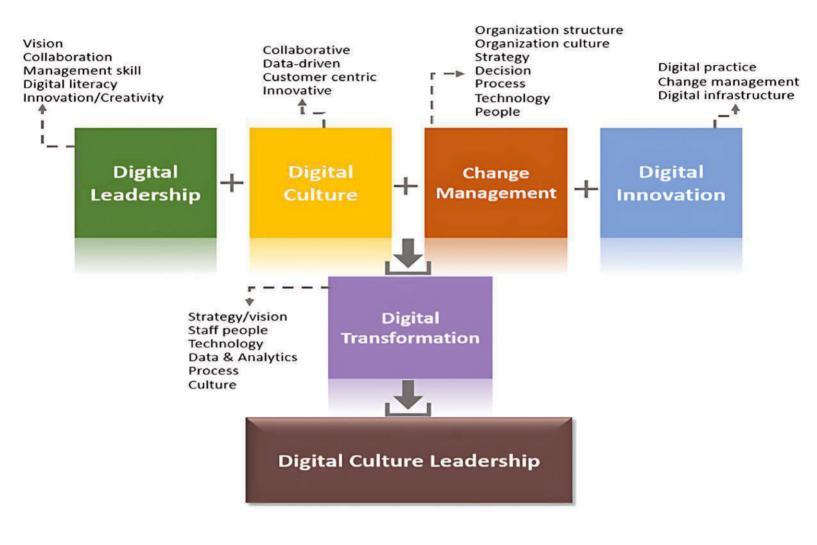


Fig 1. (Chompoowong, P., et al. 2022)

and renewing digital technologies, whether it is through the development of artificial intelligence, the improvement of wireless broadband. of mobile devices. and the development of social networks, big data, cloud computing, and Internet of things, people find that the new technology is able to take

asks that have traditionally relied on human judgment and automate them faster, more effectively, and with better quality. As the costs of deploying and integrating information technology into all aspects of business and daily life are driven down, more people are able to take advantage of technology and have the means to experiment with many new

innovations and innovations in how we do things. Figure 1 illustrates the conceptual framework factors of digital culture leadership for elementary education. The research includes concept the following primary elements and processes: (1) Digital Leadership, (2)Digital Culture, (3)Change Management, (4)and Digital Innovation.

Organisations should utilise these components to achieve digital transformation, fostering digital culture leadership necessary for managing organisations in the digital age.

As the emerging digital age ushers in a new era and reshapes our world, we not only face new challenges but also enjoy previously unattainable opportunities. The main opportunities witnessed in today's more connected and digitised environment are. in particular. the following aspects: opportunities for growth and innovation. opportunities for women to participate in major opportunities roles. for mobile workers. opportunities for organisational agility, opportunities for democratised information, and opportunities for the "Green" movement. They make life our more enjoyable and help better address a variety of 21st-century challenges. By collaborating and benefiting from such opportunities, people feel empowered and attain more satisfaction

with enhanced quality of work and life.

Conclusion

Through a systematic review of literature and subsequent analysis, several findings from the study have been The obtained. important finding of the paper is that existing digital leaders are more capable of strategising, innovating, and exploiting digital technologies in the organisations, rather than leading only through traditional style. This paper is based on review of related studies which are all about digital leadership, as the focused review of related literature has provided future direction as well. Many organisations in the digital age are profoundly investing their efforts to compete with others. thereby requiring digital leadership capabilities. The other findings indicate that digital leaders have significant roles in business organisational strategy, change and development (Türk, 2023).

Exploring the 21st century leadership strategies, challenges, and opportunities such as digital leadership and distributed leadership in organisations, this has systematically reviewed literature from scholars and practitioners over a 15-vear period. The purpose of this paper is to acquaint the literature on digital leadership with the theoretical and practical of leading approaches through a digital lens in the organisations.In traditional organisations, "top down" leadership was a dominant style which was to distributed changed leadership by scholars Sue Roffey, Lucy Knox. Leithwood and Montacute who have closely examined the conceptual dimensions of distributed leadership (World English Journal & Bilgin, 2024).

4.1 Summary of Key Findings

In industry 4.0 and 5.0 skills and talents distinguished by self-responsibility and self-organisation will be in increasingly high demand. But individualistic self-assertion to have own

interests in focus can be less or counterproductive in collaborative work environments. such cases competencies effectively navigate social structures and to facilitate their change by engaging adaptive collective action for supporting emergence should receive greater credit. As aspired an overarchina strategic imperative we recommend to find and orchestrative vlaga leadership styles. This has been the main inspiration to launch the leadership requirement engineering approach in the ManAl project with intention as a methodical base to develop and systematically portfolio assess а pragmatically feasible leadership competences. (Paul Tiwari, 2022)

Groups in every organisation seek to have more flexibility and the freedom to operate more autonomously.

4.2 Implications for Leadership Practice and Research

Moreover, a challenge is to which determine diaital strateav business differentiation. tabletop. business transformation or fundamental has been deployed by whom and has been assessed in what way, either coanitively intuitively. The challenge could be fruitful for future managerial studies. A first step for future research is to ascertain the feasibility of empirical support. The second and а more sophisticated step are to empirically ascertain character of actual digital strategies. Future work might also present a deeper operational model for the deployment of diaital strategies. Additionally, proceeds can be achieved by differentiating levels of the deployed strategies. Then, it remains to be seen whether the strategies operate in accomplishment or failing to critical obiectives. attain within some serious sectors of the economy, such as industries and services.

A more intellectual challenge is the research into sub concepts and organisational implications and ramifications, up to the construal of a comprehensive and scientifically underpinned base-concept of digitalleadership (D'Cruz et al., 2016).

Leadership in a Digitally Transformed World: VpologyT for Digital Leadership in **Turbulent** Times and Beyond is an article that makes recommendations for leadership practice. Digital leaders are advised embrace a strategic digital mindset by using digital technologies to transform internal and external organisational processes to develop digital capabilities that enable efficient digital leadership (Ghamrawi & M. Tamim, 2023). Both a blurred focus and an ambiguity upon the mindset digital components (e.g. process orientation. external orientation. innovation, resource efficiency, value creation), as well as the lack of an instrumental-how-to perspective the on development of digital capabilities contribute to the theoretical

void in relation to digital strategies and leadership. The task of this research was to provide analytical intuitions and informed by the literature to build a conceptual framework future that empirical research practical and observations can learn from. The modern digital world has changed the context of organisational action and environmental rationalities. In our case. we dealt with four schools four and governance frameworks. Conversely, our sample seems not to have adhering with the digital leader mandate because blurred а operationalisation and understanding of digital leaders.

4.3 Recommendations for Future Research

In order to measure the effects of digital leadership on digital innovation and exploration, a comprehensive indicator system needs to take into account multiple levels. At the subsystem level, enterprises

must implement methods that are able to measure the how well company manages digital activities and innovation processes and how effective they are (Wang et al., 2022). A second point of interest is innovation in a broader context. Beyond the limits of diaital innovation, future research should explore how other leadership behaviours can significantly impact exploratory innovation performance. Furthermore. how to achieve a strategic orientation towards exploration and innovation is interestina research question. Finally, it seems appropriate to imagine the possible relationships between digital leadership, organisational culture towards digital and strategic orientation towards exploration and innovation. A model including all this elements could be interesting to measure dynamic capabilities of digital organisation and it framework.

The paper identifies that leadership in digital organisations is evolving and its impact is becoming increasingly significant. Nevertheless, there is still lack of high-quality research in the field of

digital leadership and there is also a lack of indicators measuring company management on digital innovation and exploration. Such indicators should digital incorporate the capability of ecosystems, competences suitable for leading people in the digital age, and the combination of confidence. vision. and Beyond these strategy. gaps, additional areas for future research are indicated in three major aspects.

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