



---

**Artificial Intelligence in Corporate Communications:  
Determinants of Acceptance and Transformative Processes**

Journal:	<i>Corporate Communications: an International Journal</i>
Manuscript ID	CCIJ-04-2024-0051.R2
Manuscript Type:	Original Article
Keywords:	Artificial Intelligence, Communications technology, Communication management, Corporate communications, Qualitative methods, Technology Acceptance

SCHOLARONE™  
Manuscripts

Running Head: ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

**Artificial Intelligence in Corporate Communications: Determinants of Acceptance and Transformative Processes**

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

**Structured Abstract**

**Purpose:** This study investigates the determinants of artificial intelligence (AI) acceptance in and AI-driven transformations of corporate communications. From a technology adoption perspective, the study explores the dual influence of individual and organizational factors on AI acceptance.

**Design/methodology/approach:** Employing a qualitative research design, this study conducted semi-structured interviews with 19 AI experts in large-scale companies in Germany.

**Findings:** The study reveals micro-level determinants of AI acceptance related to AI's perceived usefulness and ease of use. It also identifies macro-level determinants, including organizational awareness and frameworks. Corporate communications is expected to gain relevance due to the organizational integration of AI.

**Originality:** By proposing an extension to the technology acceptance model, which incorporates both micro- and meso-level determinants, this study provides a novel framework for holistically understanding AI acceptance in corporate communications.

**Research implications:** The proposed model integrates crucial factors influencing AI adoption and offers a starting point for quantitative validation. The study serves as a benchmark for future research, particularly given its timing right before the extensive adoption of ChatGPT.

**Practical implications:** Organizations are encouraged to develop strategies that enhance both individual and organizational AI readiness. By reflecting both micro- and macro-level determinants of AI acceptance, a more holistic understanding of effective change management initiatives related to AI integration can be fostered.

**Keywords:** Artificial Intelligence, AI, Corporate Communications, Public Relations, Technology Acceptance, Mirco-Institutionalism, Strategy, Digital Transformation

**Article classification:** Original article (Research paper)

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

**Artificial Intelligence in Corporate Communications: Determinants of Acceptance and Transformative Processes**

Digital transformation has impacted corporate communications in many companies, ushering in significant changes in this field (Brockhaus *et al.*, 2023). As technological advancements continue to evolve, companies are challenged to adapt to ensure competitiveness. A pivotal driver of digital transformation is the use of artificial intelligence (AI), which disrupts entire business models, capabilities, and communication management frameworks (Kanbach *et al.*, 2024; Zerfass *et al.*, 2020). AI tools are now automating tasks, enhancing customer interaction, and facilitating data analysis (e.g., Buhmann and Gregory, 2023; Panda *et al.*, 2019). The implementation of AI in corporate communications profoundly transforms workflows, with machines assuming roles traditionally managed by humans, thereby challenging established communication processes and strategies (Galloway and Swiatek, 2018). These disruptions offer companies a significant competitive advantage (Borges *et al.*, 2020; Iaia *et al.*, 2024).

However, the individual perceptions of AI are often characterized by skepticism (Brauner *et al.*, 2023; Yigitcanlar *et al.*, 2022). Similarly, the profession of corporate communications is facing significant challenges in adopting AI as we observe indicators for “AI divide” (Zerfass *et al.*, 2019, p. 61) and “AI anxiety” (Johnson and Verdicchio, 2017, p. 2267). These challenges can be classified into micro-level factors, such as a limited understanding of AI among practitioners and ethical concerns, and meso-level factors, such as hesitancy in the top management and unclear responsibilities (Buhmann and White, 2022; Johnson and Verdicchio, 2017; Zerfass *et al.*, 2020).

The benefits of AI use, on one hand, and the hurdles of its adoption, on the other hand, underscore the importance of determining the drivers of AI acceptance in corporate

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 communications. Individual factors, such as personal awareness, knowledge about the  
4  
5 technology, and emotional responses, significantly shape attitudes toward AI (Baabdullah, 2024;  
6  
7 Carolus *et al.*, 2023; Sartori and Bocca, 2023). From the organizational perspective, factors such  
8  
9 as managerial commitment, knowledge management, and governance are key for successful AI  
10  
11 adoption (e.g., Iaia *et al.*, 2024; Polisetty *et al.*, 2024).  
12  
13

14  
15 Contrary to the evolving nature of AI in corporate communications, little research has  
16  
17 been conducted on the drivers of AI acceptance in organizational contexts (Buhmann and  
18  
19 Gregory, 2023; Kurup and Gupta, 2022; Neumann *et al.*, 2024). Our paper seeks to fill this gap.  
20  
21 Taking a micro-institutional perspective (Cardinale, 2018; Zucker and Schilke, 2019) and  
22  
23 through the lens of technology acceptance studies (e.g., Davis, 1985), we identify micro- and  
24  
25 meso-level factors that drive the acceptance of AI in communication departments in large-scale  
26  
27 companies in Germany. *As digital transformation requires companies to undergo structural and*  
28  
29 *operational adaptation (Brockhaus *et al.*, 2023; Kanbach *et al.*, 2024; Zerfass *et al.*, 2020), this*  
30  
31 *study also highlights the perceived transformation of the profession itself.*  
32  
33

34  
35 In particular, we aim to address the following research questions:

36  
37 *RQ1: How is AI acceptance in corporate communications impacted by (a) micro- and (b)*  
38  
39 *meso-level determinants in large-scale companies in Germany?*

40  
41  
42 *RQ2: How is the AI-related transformation of corporate communications perceived by*  
43  
44 *large-scale companies in Germany?*

45  
46  
47 We conducted 19 semi-structured interviews with communication experts from large-  
48  
49 scale companies and consultancies in Germany, prior to the significant breakthrough of  
50  
51 OpenAI's ChatGPT in the market. Large-scale companies, often with international operations  
52  
53 and substantial resources, are presumed to be at the forefront of AI adoption. Thus, the study  
54  
55

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

provides pioneering exploratory insights into the drivers of AI acceptance in corporate communications, serving as a critical benchmark in the era of advanced AI tools.

### Literature Review

#### *AI Acceptance as Challenge for Corporate Communications*

Recently, the term “artificial intelligence” has become ubiquitous across various industries. Despite its widespread use, an all-encompassing definition of AI remains elusive. From a communication management perspective, AI encompasses flexible decision-making processes and actions by software-driven agents that adapt to changing goals and situations, learning from past experiences while also acknowledging its limitations (Zerfass *et al.*, 2020).

In corporate communications, studies on AI’s impact are burgeoning but still limited (Buhmann and Gregory, 2023), which is why its full potential for strategic and corporate communications remains underexplored. Concerning the strategic use of AI in the business context, AI has a crucial impact on decision support, stakeholder engagement, automation, as well as product and service offerings (Borges *et al.*, 2020). The strategic use of AI in business contexts highlights the importance of aligning it with business needs and digital strategies to enhance employee engagement and customer experience, ultimately driving the organization’s competitive advantage. The effective use of AI can automate processes, create innovative solutions, and improve organizational efficiency. However, adoption of AI in organizations comes with several significant obstacles for strategic communication, including evidence, outcome, and epistemic concerns (Buhmann, 2023; Buhmann and White, 2022). These issues stem from AI’s potential to produce inconclusive, biased, or inscrutable results, leading to challenges in transparency, accountability, and stakeholder trust.

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

To overcome these obstacles, AI acceptance in corporate communications is crucial as it forms the foundation for strategically leveraging AI technologies. We argue that acceptance has a dual nature in this context: (1) From a bottom-up perspective, on the micro-level, understanding and fostering AI acceptance among communication professionals ensures successful integration, supporting the effectiveness and innovation of communication strategies (Buhmann and Fieseler, 2023). However, this also requires AI acceptance (2) from a top-down perspective, on the meso-level, which creates the preconditions and processes under which AI can be successfully incorporated into an organization's DNA (Buhmann, 2023; Neumann *et al.*, 2024; Uren and Edwards, 2023).

*Drivers of AI Acceptance in Corporate Communications*

With technological innovations, fundamental questions about acceptance resurface which are critical for policy makers, technology developers, and companies considering future AI tool implementation. The academic discourse around technology acceptance is not a new phenomenon. A key model in this area is the *technology acceptance model* (TAM; Davis, 1985), which builds upon the *theory of reasoned action* (Fishbein, 1980) and the *theory of planned behavior* (Ajzen, 1991). These foundational theories suggest that an individual's attitudes are a result of their beliefs and assumptions. Over time, the original TAM has been refined and extended. Other theories and models that tackle questions of technology adoption have also been proposed. A general overview of relevant theories and models is presented in Table 1.

Table 1 about here

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 From a methodological viewpoint, technology acceptance studies have primarily applied  
4 quantitative designs to investigate influences on technology acceptance (Al-Qaysi *et al.*, 2020).  
5  
6 TAM applications mainly include e-commerce, online banking, social media, and e-learning (Al-  
7 Emran and Granić, 2021). However, in the specific domain of AI, “technology acceptance is  
8 much more idiosyncratic [...], presenting unique differences relative to other technology use  
9 environments” (Hasija and Esper, 2022, p. 390). In this regard, the flexible nature of the TAM,  
10 as well as relevant factors derived from related theories and models, promises a reliable and valid  
11 foundation for a qualitative exploration of factors determining AI acceptance.  
12  
13  
14  
15  
16  
17  
18  
19  
20

21 Davis’s (1985) TAM posits that the use of information systems or technologies can be  
22 predicted through a stimulus-response model. In this model, the technical characteristics of an  
23 information system or innovation act as the stimulus, influencing an individual’s motivation and  
24 leading to a reaction or response in terms of actual utilization (Al-Emran and Granić, 2021;  
25 Davis, 1985). The TAM particularly focuses on the relationship between the design  
26 characteristics of a technology and its usage. Davis (1985) postulated that individuals form  
27 motivational tendencies shortly after their first exposure to a technology, which then influences  
28 their subsequent usage behavior.  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39

40 In this vein, the TAM delves into four primary factors: (1) the design features of a system  
41 as external variables, (2) cognitive response, (3) affective response, and (4) behavioral response  
42 (Davis, 1985). The cognitive response, comprising perceived usefulness and perceived ease of  
43 use, combined with the affective response (the individual’s attitude toward using the system),  
44 collectively informs the user’s motivation. The behavioral response is ultimately realized as the  
45 actual use of the system. The design characteristics of a technical application directly influence  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60



## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 the cognitive response of an individual considering technology use. However, as external  
4  
5 variables, they do not directly sway the attitude or ultimate actual behavior.  
6

7  
8 Perceived usefulness within the cognitive response is understood as the degree to which  
9  
10 an individual believes that using the system will positively affect their job performance (Davis,  
11  
12 1985). It encompasses six dimensions: enhancement in task performance speed, enhancement in  
13  
14 productivity, job ease, performance improvement, job effectiveness, and the perceived individual  
15  
16 job benefits of the application. Ease of use refers to the degree to which an individual believes  
17  
18 that using the application will require minimal mental or physical effort (Davis, 1985). It  
19  
20 significantly impacts perceived usefulness, as easier operation typically leads to optimized work  
21  
22 performance and increased productivity (Davis, 1985). Factors related to both perceived  
23  
24 usefulness and ease of use can be used as analytical categories to investigate AI adoption.  
25  
26  
27

28  
29 While Davis's (1985) TAM offers insights into the drivers of technology acceptance from  
30  
31 an individual's perspective (at the micro-level), it does not fully address the influence of  
32  
33 organizational factors (at the meso-level). Research has shown that factors such as managerial  
34  
35 support, commitment, culture, ethics and norms, knowledge management, and governance play a  
36  
37 significant role in the organizational adoption of new practices and technologies (e.g., Iaia *et al.*,  
38  
39 2024; Neumann *et al.*, 2024; Polisetty *et al.*, 2024), highlighting the interplay of both micro- and  
40  
41 meso-level factors.  
42  
43

44  
45 This study aims to bridge this gap by taking a micro-institutional perspective. Micro-  
46  
47 institutionalism explains how individual actions are shaped by and contribute to organizational  
48  
49 structures, cultures, and practices (Cardinale, 2018; Zucker and Schilke, 2019). This interaction,  
50  
51 pivotal in understanding technology utilization within organizations, is part of the institutional  
52  
53 framework described by DiMaggio and Powell (1983) in their seminal work on institutional  
54  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

isomorphism. The role of individuals within this framework has garnered increasing attention, marked by a shift in focus toward the individual in institutional theory. This shift emphasizes individual agency and its impact on institutional structures and practices.

By combining the micro-level focus of the TAM and related works with the meso-level insights provided by micro-institutionalism, this study offers a more comprehensive understanding of AI acceptance in corporate communications. This dual approach enables an exploration of how individual attitudes toward AI, shaped by perceived usefulness and ease of use, interact with and are influenced by organizational policies, culture, and practices. Such an integrative perspective is vital in understanding the adoption and implementation of AI in the field of corporate communications, where individual and organizational factors are linked. These aspects, especially in the context of AI, have not been sufficiently explored, despite the growing body of work around micro-institutionalism (Zucker and Schilke, 2019).

*AI-related Transformation of Corporate Communications*

Current scientific discourse on digital transformation, particularly the integration of AI in corporate communications, underscores its transformative potential while simultaneously acknowledging the significant challenges it presents (Zerfass *et al.*, 2019, 2020). Leaning on the unified definition of digital transformation by Gong and Ribiere (2021), AI-related transformation refers to a fundamental change process, enabled by the innovative use of AI accompanied by the strategic leverage of key resources and capabilities, aiming to radically improve corporate communications.

Empirical evidence suggests that many communication managers possess a foundational understanding of AI (Zerfass *et al.*, 2020). However, proactive engagement with AI at the organizational level is less common, with initiatives typically driven by top management. This

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 makes leadership responsible for fostering a culture of continuous learning and providing  
4 training opportunities that equip staff with the skills to leverage AI effectively on leadership  
5  
6 (Zerfass *et al.*, 2020).  
7  
8  
9

10 AI will redefine the tasks and roles of communication managers, suggesting a  
11 fundamental shift in their functions and responsibilities. Corporate communication departments  
12 may become competence leaders in AI integration, spearheading the adoption and effective use  
13 of AI within their organizations (Buhmann and Gregory, 2023; Galloway and Swiatek, 2018;  
14 Seidenglanz and Baier, 2023). This leadership role will likely necessitate a rise in competencies,  
15 continuous training, and learning to keep pace with the rapid integration of AI in corporate  
16 communication tasks (Seidenglanz and Baier, 2023). Such an environment fosters a culture of  
17 perpetual learning and skill advancement, aligning with the evolving demands of AI-enabled  
18 communication landscapes. Moreover, with AI's capacity to increase output, there emerges a  
19 corresponding need for more human and individualized communication to maintain and enhance  
20 the quality of engagement (Seidenglanz and Baier, 2023). This paradox underscores the need for  
21 communication professionals to develop a nuanced understanding of AI's capabilities and  
22 limitations, ensuring that the increase in quantity does not compromise the authenticity and  
23 personalization of communication.  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41

### 42 **Methods**

43

44 To investigate the research questions, we chose an exploratory approach and conducted  
45 semi-structured interviews with communication and technology experts in large-scale companies  
46 in Germany. Conducted prior to the significant market breakthrough of *OpenAI's ChatGPT*,  
47 these interviews provide foundational insights into the challenges and perceptions of adopting  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

AI. This timing is crucial as it establishes a critical benchmark for the pre-*ChatGPT* era, thereby enriching the field with a deeper understanding of the initial attitudes and barriers to adoption.

*Sample and Data Collection*

To capture a diverse range of perspectives, the sample was designed to include three groups: (1) large companies developing AI tools in-house, (2) large companies using third-party AI tools, and (3) consultancies advising such companies on AI utilization. These groups represent different levels of maturity in adopting digital infrastructure (Brockhaus *et al.*, 2023), thus promising a holistic view on AI-related adoption practices.

Each company was selected based on its engagement with AI—whether through the development, usage, or specialization in AI technologies. In total, 19 companies participated (see Table 2). To mitigate biases arising from the experts' affiliations or perspectives, a diverse range of viewpoints was sought in the sampling process while maintaining the confidentiality of sensitive information. Informed consent was obtained from all participants.

The interviews were conducted via video conferencing between June and July 2022. The interview protocol's efficacy was verified through a pretest. Finally, the interviews, each of which lasted between 20 and 60 minutes, were transcribed using the *f4transcript* software.

Table 2 about here

*Coding Procedure*

Two coders conducted a qualitative content analysis, encompassing a mix of deductive and inductive coding strategies. Initially, the deductive coding was structured around two main thematic categories derived from the literature: (1) technology acceptance and (2) digital

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

transformation of communication departments. These categories were essential for organizing the data in a manner that facilitated a comprehensive analysis. Technology acceptance was directly informed by the TAM, which has been previously used in qualitative studies on AI adoption (e.g., Hasija and Esper, 2022). We focused on the ease of use, perceived usefulness, and attitudes toward AI use (Davis, 1985). In addition, we considered AI-specific factors for adoption on micro-level like skills, knowledge, and trust (e.g., Baabdullah, 2024; Brauner *et al.*, 2023; Carolus *et al.*, 2023), as well as meso-level factors such as ethical considerations and governance (e.g., Iaia *et al.*, 2024; Polisetty *et al.*, 2024).

To capture emergent themes and nuances beyond the scope of the predetermined categories, inductive coding was also applied. This allowed for the identification of new sub-categories relevant to aspects of technology acceptance (e.g., meso-level determinants) and digital transformation (e.g., communication role concepts). By continuously analyzing the interviews in this way, both the quantity and quality of new codes were found to decrease. Finally, a satisfying degree of theoretical saturation was achieved after the 19 interviews.

## Results

### *General Observations: Awareness and Strategic Potentials of AI*

The results broadly suggest a fundamental AI awareness among communication professionals about AI and its transformative potential for corporate communications. All experts demonstrated an extensive knowledge base concerning AI. In terms of AI's strategic potential for purposes of corporate communications, its most substantial impact is envisaged within the realm of public relations. According to the experts, AI tools harbor "extreme potential in much more targeted communication" (E4, consultancy). Current applications predominantly lie in monitoring and analysis tools, which are used for sentiment analysis. These AI applications

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

range from being fully automated to requiring partial human oversight, indicating the technology's versatility.

The strategic decision-making process within communication departments is another area of AI's impact. As noted by some respondents, AI algorithms can suggest communication strategies based on historical data, thus "helping with the decision-making framework" (E19, developer). Furthermore, AI tools play a critical role in overseeing the effectiveness of executed communication strategies.

Content creation and management for communication channels emerge as significant application fields for AI. Additionally, text mining and data preprocessing are identified as crucial sub-segments, illustrating the comprehensive scope of AI in text-related applications. Assistance bots, designed for both internal employee support and external customer communication, represent a further field. Operational efficiency and enhanced management of dialogue in both internal and external communications underscore the broad utility of AI tools. Regarding the relationship between technological efficiency and human judgment, the experts concurred on the importance of human oversight: "They have ultimately the decision about it: Does it fit like this or not?" (E2, developer).

*Determinants of AI Acceptance (RQ1)*

Despite growing acknowledgment of AI's transformative potential in corporate communications, many experts—especially in companies using third-party applications—exhibit the perception of notable reticence toward embedding AI tools into the operations of communication departments: "We take a very cautious approach because the human factor is still very important to us" (E12, user). This hesitancy prompts an investigation into the forces

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

steering technology acceptance, revealing a complex interplay of dynamics at the individual (micro-level) and organizational (meso-level) levels.

*Micro-level acceptance determinants.* At the micro-level, individual users' engagement with AI technologies is influenced by a tapestry of drivers, largely matching the predictions rooted in the TAM (Davis, 1985). Sociodemographic factors, notably age, underscore a significant divide, lending credence to the notion of AI divide. This demographic distinction evidences varying levels of openness to AI adoption, suggesting deeper, possibly generational, underpinnings to technology acceptance. Beyond mere age, the experts underscored that personal experiences with and active use of AI emerge as critical determinants fostering a predisposition toward acceptance and facilitating a smoother transition into regular AI tool use: "The perception of the benefits is also shaped by the first use of the technology—regardless of whether the result and its quality are received euphorically or viewed critically" (E11, user).

In almost all interviews, trust emerged as a foundational pillar influencing AI acceptance at an individual level. The notion of deriving an "emotional benefit" (E7, user) from AI use, as articulated by one respondent, elevates acceptance, signifying a profound connection between the user's emotional engagement with technology and their overall attitude toward its use. Moreover, the interviews revealed that subjective norms rooted in a convenient solution and personal beliefs of individuals impact their disposition toward adopting new technologies (Venkatesh and Davis, 2000): "AI gives you so much power to make greater, smarter decisions faster. And I am really looking forward to continuing like build that framework and really empower and educate our colleagues about how much power they have and exactly how much data they can access" (E19, developer). This interweaving of psychological and technological factors, influencing AI's perceived usefulness and ease of use, reinforces the nuanced relevance



## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

of micro-level determinants of technology acceptance (Davis, 1985; Trist and Bamforth, 1951; Venkatesh and Davis, 2000; Venkatesh *et al.*, 2003).

*Meso-level acceptance determinants.* Transitioning to the meso-level, the organizational context introduces a distinct set of influences on technology acceptance. The interviews demonstrated that organizational culture and leaders' stance toward AI adoption play instrumental roles as drivers of acceptance. Executives who embody proactive AI use, effectively "through leading by example" (E2, developer), not only demonstrate the tangible benefits of these technologies but also actively cultivate an environment conducive to acceptance among the workforces.

Ethical considerations, particularly around voluntary usage, and equitable functionality of AI tools emerge as critical. Mandated use of technology can engender resistance, underlining the necessity for ethical deployment and utilization frameworks that prioritize voluntary engagement and fairness: "That we don't have a bias and don't run the risk of things going in a bad direction. We need that, and it makes it easier for our teams to have very clear guidelines and to know in which direction things should go. And then, in cases of doubt, they also know whom they can turn to if it could be ethically questionable" (E7, user). Such principled governance fosters a culture of accountability and ethical integrity essential for nurturing trust and acceptance of AI.

Transparency in the adoption and operationalization of AI tools is frequently cited as vital. Engaging users in the technological journey, through comprehensive education and training, fortifies acceptance. This openness, "the cornerstone of our approach" (E8, user), is paramount, ensuring that users are well-informed and adequately prepared for the transition to AI-enhanced workflows.



## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 Additionally, tool accessibility and cost considerations cannot be overstated. AI  
4  
5 technologies must not only be user-friendly and intuitive but also economically viable for the  
6  
7 organization. Prohibitive initial costs or exorbitant maintenance expenses can halt AI integration  
8  
9 efforts before they begin, emphasizing the need for financial pragmatism in technology adoption  
10  
11 strategies.  
12  
13

14  
15 *Bridging micro- and meso-level determinants: the role of technology itself.* Straddling the  
16  
17 micro- and meso-levels are intrinsic tool characteristics that either facilitate or impede  
18  
19 acceptance. The technology level of the tools, encompassing reliability, user-friendliness, and  
20  
21 clarity in functionality, plays a crucial role. Tools that are straightforward to use inspire  
22  
23 confidence and foster a more engaging, even enjoyable, interaction with the technology: “Ease of  
24  
25 use is paramount. It creates self-assurance, encourages enjoyment, and promotes an autonomous,  
26  
27 playful exploration of technology” (E11, user). When users grasp the functionalities and inherent  
28  
29 benefits of AI tools, acceptance is naturally bolstered, illustrating the critical intersection of  
30  
31 technology’s intrinsic qualities with individual and organizational acceptance dynamics.  
32  
33

34  
35 *AI-related Transformation of Corporate Communications (RQ2)*  
36

37  
38 The integration of new tools into the everyday workflows of communication departments  
39  
40 raises the possibility of a transformation in corporate communications and its role within the  
41  
42 company. Nonetheless, a consensus among all interviewees indicated that the relevance of  
43  
44 corporate communications will not decrease by the advent of AI tools in daily operations: “It will  
45  
46 never happen that corporate communication is no longer needed” (E8, consultancy). Some  
47  
48 experts also acknowledged the advancement of AI as a significant opportunity for the field of  
49  
50 corporate communications. They perceived that integrating AI into internal workflows could lead  
51  
52 to an increased significance of the communication function within the organization.  
53  
54  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 In this vein, a shift in workflows and an enhancement of processes within communication  
4 departments are anticipated. “The nature of work tasks will evolve. We will [...] spend a lot more  
5 time really thinking about ethical and moral or strategic elements and perhaps spend less time in  
6 these operational functions” (E5, developer). This sentiment was echoed across interviews,  
7 suggesting that employees will increasingly focus on the ethical, moral, or strategic aspects of  
8 corporate communication, relying less on tasks that can be automated by AI tools.  
9

10  
11 Moreover, the experts agreed that the communication function’s relevance within  
12 companies is set to increase. As new applications are integrated more frequently, the demand for  
13 guides or instructors who can facilitate employees’ adaptation to these tools in their work  
14 routines will grow. In this evolving landscape, communicators will experience an evolution. As  
15 AI becomes an additional internal stakeholder, communication departments are envisioned to  
16 gain influence and strategic importance, navigating and mediating the interactions between AI  
17 applications and other facets of the enterprise: “We are more likely to become mediators,  
18 moderators and fact checkers, quality checkers, [...] or AI moderators (E11, user). This  
19 evolution implies that the entire communication department’s role will morph into an AI  
20 oversight authority. This authority, in collaboration with other departments such as IT, will be  
21 responsible for ensuring the safe and continuous functionality of AI tools. One interviewee  
22 encapsulated this evolving dynamic: “The more advanced the technology becomes, the more  
23 crucial the complementary role—that is, the human element—grows” (E14, developer). This  
24 statement underscores the importance of human involvement in the AI application  
25 implementation process: a necessity for a human oversight mechanism to monitor the tool’s  
26 operation and ensure its proper functioning.  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

**Discussion**

This study aimed at investigating the potentials, pitfalls, and transformations related to the incorporation of AI-based applications in large-scale companies in Germany, primarily focusing on the acceptance of AI-based applications within corporate communication. Utilizing the *Technology Acceptance Model* (Davis, 1985) and findings from technology adoption studies (e.g., Trist and Bamforth, 1951; Venkatesh *et al.*, 2003; Venkatesh and Davis, 2000), we explored both the individual and organizational determinants of AI acceptance.

The results confirmed the prevalence of AI-related divide and a certain degree of AI anxiety, indicative of a hesitancy toward embracing AI tools within the professional fabric of communication departments (Johnson and Verdicchio, 2017; Zerfass *et al.*, 2019; Zerfass *et al.*, 2020). Overall, we found that the adoption and acceptance of AI considerably varies in the communication industry (Buhmann and Gregory, 2023). The trepidation stems from the rapid evolution of AI technology, which is both invigorating and overwhelming.

Despite these apprehensions, the interviews confirmed that technology acceptance is a multifaceted process involving both micro-level (individual) and meso-level (organizational) factors (Bruque and Moyan, 2007; Davis, 1985). Understanding that these factors are interdependent enables an equitable evaluation of technology acceptance. Most participants highlighted factors that influence the adoption of new technologies within a company with the technology itself as the bridging element: demonstrative leadership, systematic guidance, comprehensive training, and the meaningful management of experiences with these technologies (Iaia *et al.*, 2024; Neumann *et al.*, 2024; Polisetty *et al.*, 2024).

Indeed, for employees and organizations to navigate the new landscape shaped by AI, guidance is essential. This might manifest as on-the-job training for selected employees who

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 display a propensity for technological fluency. These individuals can then champion the AI  
4  
5 integration process, acting as points of contact for colleagues in need of support with these new  
6  
7 tools. Consequently, company-wide awareness for the correct application and potential of AI  
8  
9 tools can be cultivated.

10  
11  
12 The findings of this study revealed that the visibility of practical utility and immediate  
13  
14 benefits drive the acceptance of AI (Davis, 1985). Lack of clear advantages can lead to  
15  
16 skepticism, which might impede the successful adoption of AI within corporate communication  
17  
18 workflows. This skepticism, while sometimes correlated with demographic factors, is more  
19  
20 accurately attributed to uncertainties regarding the use and organizational integration of AI tools  
21  
22 rather than solely to the AI divide associated with older generations (Zerfass *et al.*, 2019). A case  
23  
24 in point is the widespread yet unrecognized use of AI functionalities in commonplace  
25  
26 applications. Enhancing awareness that AI is already embedded in familiar enterprise tools may  
27  
28 mitigate skepticism and bolster broader confidence in engaging with AI technology.  
29  
30  
31

32  
33 Distinct perceptions were noted among the three studied groups: companies developing  
34  
35 their own tools, those using third-party tools, and consultancies advising on AI. Developers  
36  
37 express confidence in the use and advantages of the tools they create, understanding their  
38  
39 functionalities deeply. This contrasts with the skepticism of those reliant on third-party tools,  
40  
41 who lack the intimate knowledge that comes with tool creation, potentially affecting their trust  
42  
43 and acceptance. Consultancies, experts in the field, typically advocate for the advantages of AI  
44  
45 tool implementation.  
46  
47  
48

49 A prevailing concern among users is the prospect of being replaced by AI tools, given the  
50  
51 efficiency and speed with which AI can accomplish certain tasks. However, the results suggested  
52  
53 that the forthcoming change in corporate communication is more likely to be a reshaping of  
54  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

communicator roles and communication efficiency due to the ongoing human–machine symbiosis (Galloway and Swiatek, 2018), not a reduction in force or a move toward complete automation (Panda *et al.*, 2019). Communication professionals will need to adapt to enhanced workflows and assume new responsibilities as AI supervisors or regulatory figures, ensuring the ethical and effective use of AI tools.

The assumption remains that workflows will not be fully automated by AI but will be augmented to support the routine functions of communicators (Zerfass *et al.*, 2023). In this new paradigm, communicators will become pivotal in overseeing AI integration, requiring comprehensive training to serve as authoritative figures in an AI-augmented corporate environment. Such a transition underscores the dual necessity for AI tools to be both powerful in their capabilities and complemented by human oversight, ensuring alignment with ethical standards and organizational goals.

In synthesizing these findings, the future of corporate communication seems to be at a crossroads where AI’s promise of efficiency and innovation must be balanced with the indispensable value of human expertise and ethical consideration. As AI continues to permeate corporate communications, the roles within these departments are poised for significant evolution, demanding a recalibration of skills, responsibilities, and strategic objectives to harmonize with this new technological reality. Here, corporate communications might play a crucial role within organizations (Seidenglanz and Baier, 2023), especially when it comes to successfully tackling the strategic, operative, and relational challenges of AI-mediated communication (Guzman and Lewis, 2020; Hancock *et al.*, 2020)

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

**Implications**

This empirical study broadens the academic landscape regarding AI's role in corporate communications and acknowledges that academic discourse struggles to keep pace with industry developments. While AI remains a nebulous concept for some due to opaque functionalities and a lack of traceability, it is an area ripe for scholarly exploration. In an era where competitive edge is linked to technological innovation, understanding the intricacies of AI is not just beneficial—it is critical. By taking a micro-institutional perspective (Cardinale, 2018; Zucker and Schilke, 2020), this study enhances the academic conversation by examining the drivers of AI acceptance and proposes—from a theoretical implication viewpoint—an extension to the TAM that incorporates determinants from both the micro- and meso-levels (see Figure 1).

Figure 1 about here

The micro-level determinants of our extended TAM draw from the foundational aspects of Davis's (1985) model—perceived ease of use and usefulness—which predict attitudes and adoption behaviors of individual users. The meso-level determinants, however, introduce organizational readiness and organizational frameworks into the equation. Organizational awareness refers to the collective understanding and acknowledgment within an organization regarding the importance and implications of AI adoption. It includes how well the organization's culture supports AI, driven by leadership's proactive stance and ethical considerations. In this regard, organizational awareness emphasizes the role of transparency and ethical deployment, ensuring that all members of the organization are well-informed, engaged, and prepared for AI integration. Organizational frameworks encompass the structural and

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

procedural readiness of an organization to adopt AI, including the presence of clear ethical guidelines, accountability measures, and support systems that ensure the fair and voluntary use of AI tools. Organizational frameworks also address the practical aspects of AI adoption, such as the accessibility of tools, cost-effectiveness, and the availability of comprehensive training programs to facilitate smooth operationalization of AI technologies.

From a practical standpoint, our findings underscore that continuous learning, developing digital expertise, and fostering AI literacy are fundamental for the successful deployment of AI tools. In scenarios where such expertise is lacking, external consultants become essential, facilitating knowledge transfer and bolstering organizational innovation. Communicators and consultants assume the role of AI supervisors, not merely as technical experts but as change agents who empower their colleagues to embrace AI, thereby reinforcing the company's innovative capabilities.

Moreover, adopting best practices from successful innovators becomes a strategic imperative. Isomorphism, or the process by which organizations emulate successful models, can accelerate this learning curve (DiMaggio and Powell, 1983). An in-depth understanding of the factors influencing technology acceptance is key to fostering a productive implementation of AI tools. Thus, the adapted TAM proposed in this study acts as a guiding framework for organizations and individuals navigating the AI adoption process, ensuring that both the micro- and meso-determinants are taken into consideration to facilitate a comprehensive acceptance and use of AI technologies.

### **Limitations and Conclusion**

As this article addresses a highly dynamic field of research, it is essential to acknowledge the inherent limitations. One critical limitation is that this study was conducted prior to the



## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 disruptive advent of *OpenAI's ChatGPT 3.5* in November 2022. Consequently, the insights  
4  
5 derived may not fully encapsulate the later advancements or the current industry sentiments  
6  
7 regarding AI. Despite this, the study serves as a pivotal benchmark at the event horizon of AI  
8  
9 integration into daily life and corporate practices.  
10

11  
12 This temporal context uniquely positions the study as a foundational platform for future  
13  
14 academic inquiry, particularly for conducting longitudinal research. An intriguing avenue for  
15  
16 subsequent exploration involves a replication study revisiting the same panel of experts. Such an  
17  
18 approach would allow for a dynamic comparison between the attitudes captured at the outset of  
19  
20 significant AI advancements and the evolving perceptions as these technologies mature and  
21  
22 proliferate within the corporate sphere. Additionally, expanding the research sample in future  
23  
24 studies could offer a more comprehensive understanding of AI's impact, potentially revealing  
25  
26 shifts in the determinants of AI acceptance over time.  
27  
28  
29

30  
31 Follow-up research is essential for mapping the trajectory of AI acceptance and its  
32  
33 integration within corporate communications. Future investigations could also delve into the  
34  
35 reasons behind the reluctance or refusal to adopt certain AI applications, providing nuanced  
36  
37 insights into the barriers to technology acceptance. Moreover, broadening the scope to include  
38  
39 diverse organizational types, such as small and medium-sized enterprises, could shed light on  
40  
41 differential impacts and adoption practices of AI technologies. Additionally, the examination of  
42  
43 macro-level determinants might be a fruitful avenue for future studies, especially considering the  
44  
45 breakthrough of generative AI and its normalization in everyday contexts, which have raised  
46  
47 important questions regarding regulatory aspects and industry requirements.  
48  
49  
50

51  
52 In conclusion, this study marks an important milestone in understanding the initial  
53  
54 attitudes toward AI in corporate communications. As such, it invites future research to chronicle  
55  
56  
57  
58  
59  
60



## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

the evolving landscape of AI adoption and to continue dissecting the multifaceted dynamics of technology acceptance in an ever-changing digital era.

**References**

- Ajzen, I. (1991), “The theory of planned behavior”, *Organizational Behavior and Human Decision Processes*, Vol. 50, pp. 179-211.
- Al-Emran, M. and Granić, A. (2021), “Is it still valid or outdated? A bibliometric analysis of the technology acceptance model and its applications from 2010 to 2020”, Al-Emran, M. and Shaalan, K. (Ed.s.), *Recent advances in technology acceptance models and theories*, Springer, Cham, pp. 1-12. [https://doi.org/10.1007/978-3-030-64987-6\\_1](https://doi.org/10.1007/978-3-030-64987-6_1)
- Al-Qaysi, N., Mohamad-Nordin, N. and Al-Emran, M. (2020), “Employing the technology acceptance model in social media: A systematic review”, *Education and Information Technologies*, Vol. 25, pp. 4961-5002. <https://doi.org/10.1007/s10639-020-10197-1>
- Baabdullah, A. M. (2024), “The precursors of AI adoption in business: Towards an efficient decision-making and functional performance”, *International Journal of Information Management*, Vol. 75, pp. 1-26. <https://doi.org/10.1016/j.ijinfomgt.2023.102745>
- Borges, A. F. S., Laurindo, F. J. B., Spínola, M. M., Gonçalves, R. F. and Mattos, C. A. (2020), “The strategic use of artificial intelligence in the digital era: Systematic literature review and future research directions”, *International Journal of Information Management*, Vol. 57 No. 1, pp. 1-16. <https://doi.org/10.1016/j.ijinfomgt.2020.102225>
- Brauner, P., Hick, A., Philipsen, R. and Ziefle, M. (2023), “What does the public think about artificial intelligence?—A criticality map to understand bias in the public perception of AI”, *Frontiers in Computer Science*, Vol. 5, pp. 1-12. <https://doi.org/10.3389/fcomp.2023.1113903>

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

- 1  
2  
3 Brockhaus, J., Buhmann, A. and Zerfass, A. (2023), “Digitalization in corporate  
4  
5 communications: understanding the emergence and consequences of CommTech and  
6  
7 digital infrastructure”, *Corporate Communications: An International Journal*, Vol. 28  
8  
9 No. 2, pp. 274-292. <https://doi.org/10.1108/ccij-03-2022-0035>  
10  
11  
12 Buhmann, A (2023), “The implications of artificial intelligence for strategic and organisational  
13  
14 communication”, *Communication & Organisation*, Vol. 64 No. 2, pp. 218-218.  
15  
16 <https://doi.org/10.4000/communicationorganisation/13066>  
17  
18  
19 Buhmann, A. and Fieseler C. (2023), “Deep learning meets deep democracy: Deliberative  
20  
21 governance and the responsible innovation of artificial intelligence”, *Business Ethics*  
22  
23 *Quarterly*, Vol. 33 No. 1, pp. 146-179. <https://doi.org/10.1017/beq.2021.42>  
24  
25  
26 Buhmann, A. and Gregory, A. (2023), “Artificial intelligence: Implications for corporate  
27  
28 communication roles and responsibilities”, Luoma-aho, V. and Badham, M. (Ed.s.),  
29  
30 *Handbook of digital corporate communication*, Edward Elgar Publishing, Cheltenham,  
31  
32 pp. 281-296.  
33  
34  
35 Buhmann, A. and White, C. L. (2022), “Artificial intelligence in public relations: Role and  
36  
37 implications”, Lipschultz, J. H., Freberg, K. and Luttrell R. (Ed.s.), *The Emerald*  
38  
39 *handbook of computer-mediated communication and social media*, Emerald Publishing,  
40  
41 Bingley, pp. 625-638. <https://doi.org/10.1108/978-1-80071-597-420221036>  
42  
43  
44 Cardinale, I. (2018), “Beyond constraining and enabling: Toward new microfoundations for  
45  
46 institutional theory”, *Academy of Management Review*, Vol. 43 No. 1, pp. 132-155.  
47  
48 <https://doi.org/10.5465/amr.2015.0020>  
49  
50  
51 Carolus, A., Augustin, Y., Markus, A. and Wienrich, C. (2022), “Digital interaction literacy  
52  
53 model – Conceptualizing competencies for literate interactions with voice-based AI  
54  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

- 1  
2  
3 systems”, *Computers and Education: Artificial Intelligence*, Vol. 4, pp. 1-9.  
4  
5 <https://doi.org/10.1016/j.caeai.2022.100114>  
6  
7  
8 Davis, F. D. (1985), *A technology acceptance model for empirically testing new end-user*  
9  
10 *information systems: Theory and results*, Massachusetts Institute of Technology,  
11  
12 Cambridge, MA.  
13  
14  
15 DeLone, W. H. and McLean, E. R. (1992), “Information systems success: The quest for the  
16  
17 dependent variable”, *Information Systems Research*, Vol. 3 No. 1, pp. 60-95.  
18  
19 <https://doi.org/10.1287/isre.3.1.60>  
20  
21  
22 DiMaggio, P. J. and Powell, W. W. (1983), “The iron cage revisited. Institutional isomorphism  
23  
24 and collective rationality in organizational fields”, *American Sociological Review*, Vol.  
25  
26 48 No. 2, pp. 147-160.  
27  
28  
29 Fishbein, M. (1980), “Theory of reasoned action: Some applications and implications”, Howe, H.  
30  
31 and Page, M. (Ed.s.), *Nebraska symposium on motivation 1979*, University of Nebraska  
32  
33 Press, Lincoln, NE, pp. 65-116.  
34  
35  
36 Galloway, C. and Swiatek, L. (2018), “Public relations and artificial intelligence: It’s not (just)  
37  
38 about robots”, *Public Relations Review*, Vol. 44 No. 5, pp. 734-740.  
39  
40 <https://doi.org/10.1016/j.pubrev.2018.10.008>  
41  
42  
43 Gong, C. and Ribiere, V. (2020), “Developing a unified definition of digital transformation”,  
44  
45 *Technovation*, Vol. 102, pp. 1-17. <https://doi.org/10.1016/j.technovation.2020.102217>  
46  
47  
48 Goodhue, D. L. and Thompson, R. L. (1995), “Task-technology fit and individual performance”,  
49  
50 *MIS Quarterly*, Vol. 19 No. 2, pp. 213-236. <https://doi.org/10.2307/249689>  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

- 1  
2  
3 Guzman, A. L. and Lewis, S. C. (2020), “Artificial intelligence and communication: A human–  
4 machine communication research agenda”, *New Media & Society*, Vol. 22 No. 1, pp. 70-  
5 86. <https://doi.org/10.1177/1461444819858691>  
6  
7  
8  
9  
10 Hancock, J. T., Naaman, M. and Levy, K. (2020), “AI-mediated communication: Definition,  
11 research agenda, and ethical considerations”, *Journal of Computer-Mediated*  
12 *Communication*, Vol. 25 No. 1, pp. 89-100. <https://doi.org/10.1093/jcmc/zmz022>  
13  
14  
15  
16  
17 Hasija, A. and Esper, T. L. (2022), “In artificial intelligence (AI) we trust: A qualitative  
18 investigation of AI technology acceptance”, *Journal of Business Logistics*, Vol. 43 No. 3,  
19 pp. 388-412. <https://doi.org/10.1111/jbl.12301>  
20  
21  
22  
23  
24 Iaia, L., Nespoli, C., Vicentini, F., Pironti, M. and Genovino, C. (2024), “Supporting the  
25 implementation of AI in business communication: the role of knowledge management”,  
26 *Journal of Knowledge Management*, Vol. 28 No. 1, pp. 85-95.  
27  
28  
29  
30  
31 <https://doi.org/10.1108/JKM-12-2022-0944>  
32  
33  
34 Johnson, D. G. and Verdicchio, M. (2017), “AI anxiety”, *Journal of the Association for*  
35 *Information Science and Technology*, Vol. 68 No. 9), pp. 2267-2270.  
36  
37  
38 <https://doi.org/10.1002/asi.23867>  
39  
40  
41 Kanbach, D. K., Heiduk, L., Blueher, G., Schreiter, M. and Lahmann, A. (2024), “The GenAI is  
42 out of the bottle: Generative artificial intelligence from a business model innovation  
43 perspective”, *Review of Managerial Science*, Vol. 18 No. 4, pp. 1189–1220.  
44  
45  
46  
47 <https://doi.org/10.1007/s11846-023-00696-z>  
48  
49  
50 Kurup, S. and Gupta, V. (2022). “Factors influencing the AI adoption in organizations”,  
51 *Metamorphosis: A Journal of Management Research*, Vol. 21 No. 2, pp. 129-139.  
52  
53  
54 <https://doi.org/10.1177/09726225221124035>  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

- 1  
2  
3 Neumann, O., Guirguis, K. and Steiner, R. (2024), “Exploring artificial intelligence adoption in  
4 public organizations: A comparative case study”, *Public Management Review*, Vol. 26  
5  
6  
7 No. 1, pp. 114-141. <https://doi.org/10.1080/14719037.2022.2048685>  
8  
9
- 10 Panda, G., Upadhyay, A. K. and Khandelwal, K. (2019), “Artificial intelligence: A strategic  
11 disruption in public relations”, *Journal of Creative Communications*, Vol. 14 No. 3, pp.  
12  
13  
14 196-213. <https://doi.org/10.1177/0973258619866585>  
15  
16
- 17 Polisetty, A., Chakraborty, D., G, S., Kar, A. K. and Pahari, S. (2024), “What determines AI  
18 adoption in companies? Mixed-method evidence”, *Journal of Computer Information*  
19  
20  
21  
22 *Systems*, Vol. 64 No. 3, pp. 370-387. <https://doi.org/10.1080/08874417.2023.2219668>  
23
- 24 Rogers, E. M. (1962), *Diffusion of innovations*, Free Pres, New York, NY.  
25
- 26 Sartori, L. and Bocca, G. (2023), “Minding the gap(s): Public perceptions of AI and socio-  
27  
28  
29 technical imaginaries”, *AI & Society*, Vol. 38, pp. 443-458.  
30  
31 <https://doi.org/10.1007/s00146-022-01422-1>  
32
- 33 Seidenglanz, R. and Baier, M. (2023), “The impact of artificial intelligence on the professional  
34 field of public relations/communications management: Ethical issues, challenges and an  
35  
36  
37 attempt at a forecast”, Adi, A. (Ed.), *Artificial intelligence in public relations and*  
38  
39  
40  
41 *communications: Cases, reflections and predictions*, Quadriga University of Applied  
42  
43 Sciences, Berlin, pp. 124-136.
- 44 Trist, E. L. and Bamforth, K. W. (1951), “Some social and psychological consequences of the  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60 Longwall method of coal-getting: An examination of the psychological situation and  
defences of a work group in relation to the social structure and technological content of  
the work system”, *Human Relations*, Vol. 4 No. 1, pp. 3-38.  
<https://doi.org/10.1177/001872675100400101>

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

- 1  
2  
3 Uren, V. and Edwards, J. S. (2023), “Technology readiness and the organizational journey  
4 towards AI adoption: An empirical study”, *International Journal of Information*  
5 *Management*, Vol. 68, pp. 1-12. <https://doi.org/10.1016/j.ijinfomgt.2022.102588>  
6  
7  
8 Venkatesh, V. and Bala, H. (2008), “Technology acceptance model 3 and a research agenda on  
9 interventions”, *Decision Sciences*, Vol. 39 No. 2, pp. 273-315.  
10  
11 <https://doi.org/10.1111/j.1540-5915.2008.00192.x>  
12  
13  
14 Venkatesh, V. and Davis, F. D. (2000), “A theoretical extension of the technology acceptance  
15 model: Four longitudinal field studies”, *Management Science*, Vol. 46 No. 2, pp. 186-  
16  
17 204. <https://doi.org/10.1287/mnsc.46.2.186.11926>  
18  
19  
20 Venkatesh, V., Morris, M. G., Davis, G. B. and Davis, F. D. (2003). User acceptance of  
21 information technology: Toward a unified view, *MIS Quarterly*, Vol. 27 No. 3, pp. 425-  
22  
23 478. <https://doi.org/10.2307/30036540>  
24  
25  
26 Yigitcanlar, T., Agdas, D. and Degirmenci, K. (2023), “Artificial intelligence in local  
27 governments: Perceptions of city managers on prospects, constraints and choices”, *AI &*  
28  
29 *Society*, Vol. 38, pp. 1135-1150. <https://doi.org/10.1007/s00146-022-01450-x>  
30  
31  
32 Zerfass, A., Hagelstein, J. and Tench, R. (2020), “Artificial intelligence in communication  
33 management: A cross-national study on adoption and knowledge, impact, challenges and  
34  
35 risks”, *Journal of Communication Management*, Vol. 24 No. 4, pp. 377-389.  
36  
37 <https://doi.org/10.1108/JCOM-10-2019-0137>  
38  
39  
40 Zerfass, A., Verčič, D., Verhoeven, P., Moreno, A. and Tench, R. (2019), *European*  
41  
42 *Communication Monitor 2019. Exploring trust in the profession, transparency, artificial*  
43  
44 *intelligence and new content strategies. Results of a survey in 46 countries,*  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

## ARTIFICIAL INTELLIGENCE IN CORPORATE COMMUNICATIONS

1  
2  
3 Zucker, L. G. and Schilke, O. (2019), "Towards a theory of micro-institutional processes:

4  
5 Forgotten roots, links to social-psychological research, and new ideas", Haack, P.,

6  
7 Sieweke, J. and Wessel, L. (Ed.s.), *Microfoundations of institutions*, Emerald Publishing,

8  
9 Leeds, pp. 371-389. <https://doi.org/10.1108/S0733-558X2019000065B029>



Theory/model	Author(s)	Scope and relevant factors
Technology acceptance model (TAM)	Davis, 1985	TAM posits that perceived ease of use and perceived usefulness determine an individual's intention to use a technology—which, in turn, affects actual usage.
Technology acceptance model (TAM2)	Venkatesh and Davis, 2000	TAM2 extends TAM by including social influence processes (subjective norm, experience, voluntariness, and image) and cognitive instrumental processes (job relevance, output quality, and result demonstrability) to explain perceived usefulness and usage intentions.
Technology acceptance model (TAM3)	Venkatesh and Bala, 2008	TAM3 integrates the factors from TAM2 with additional factors such as computer self-efficacy, perception of external control, computer anxiety, computer playfulness, perceived enjoyment, and objective usability.
Unified theory of acceptance and use of technology (UTAUT)	Venkatesh <i>et al.</i> , 2003	UTAUT integrates elements from various models to explain user intentions and behavior regarding technology adoption, emphasizing performance expectancy, effort expectancy, social influence, and facilitating conditions.
Information systems success model (ISSM)	DeLone and McLean, 1992	ISSM assesses the success of information systems through six dimensions: system quality, information quality, service quality, use, user satisfaction, and net benefits.
Diffusion of innovation (DOI)	Rogers, 1962	DOI theory explains how, why, and at what rate innovations spread, focusing on the innovation itself, communication channels, time, and social system.
Task-technology fit (TTF)	Goodhue and Thompson, 1995	TTF proposes that technology adoption and performance improve when the capabilities of the technology match the tasks that users need to perform, emphasizing task characteristics, technology characteristics, task-technology fit, utilization, and performance impact.
Socio-technical systems theory (STS)	Trist and Bamforth, 1951	STS emphasizes the interrelatedness of social and technical aspects of an organization, advocating for the relevance of structure (organization), people (cognitive and social factors), physical system (hardware, software, facilities), and tasks (work).



ID	Group	Company	Expert gender
E1	Consultancy	UNICEPTA	M
E2	Developer	IBM Germany	F
E3	Developer	Robert Bosch	M
E4	Consultancy	AITASTIC Research & Consult	M
E5	Developer	Microsoft Corporation	M
E6	Developer	Deutsche Telekom Business Solutions	M
E7	User	Schott	F
E8	Consultancy	Anonymous Agency	F
E9	Developer	GfK	F
E10	User	PricewaterhouseCoopers	M
E11	User	Anonymous Software Company	M
E12	User	pressrelations	M
E13	User	Audi	M
E14	Developer	Palantir Technologies	M
E15	Consultancy	CISION	M
E16	User	Fraport	M
E17	Developer	eBay Germany	M
E18	Developer	Anonymous online shop	F
E19	Developer	Siemens	F

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60

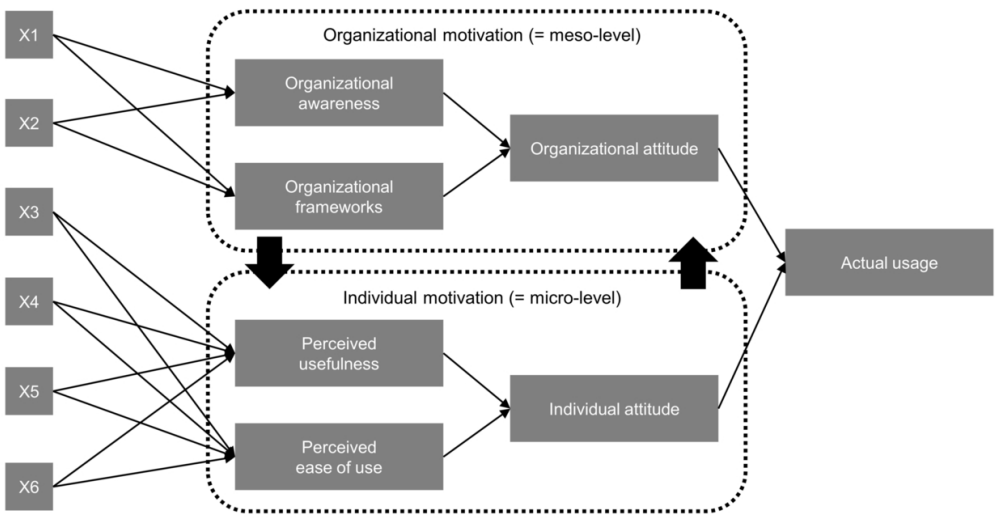


Figure 1: Extended TAM integrating micro- and meso-level determinants of AI acceptance (Source: own figure)

209x108mm (150 x 150 DPI)