African Scientific Journal
ISSN : 2658-9311
Vol : 03, Num 37 Août 2026

The Digital Native Advantage: Generation Z, Artificial Intelligence, and the Transformation of Organizational Management.

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Pour citer cet article : **ABIROU .Kh & ALLOUANI .S A (2026) « The Digital Native Advantage: Generation Z, Artificial Intelligence, and the Transformation of Organizational Management », African Scientific Journal « Volume 03, Num 37 » pp: 001 – 022.**

DOI : 10.5281/zenodo.22706875

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ISSN : 2658-9311
Vol : 03, Num 37 Août 2026

Abstract

Managing artificial intelligence (AI) in the workplace requires a workforce that can adapt to rapid technological shifts while maintaining ethical and collaborative practices. This paper examines how Generation Z, the first generation of true digital natives influences contemporary organizational management. Rather than relying on a casual or arbitrary selection of literature, this study follows a structured PRISMA 2020 protocol to identify, screen, and select relevant research. By querying major academic databases including Google Scholar, ScienceDirect, Wiley Online Library, and JSTOR, we analyzed a final corpus of 48 peer reviewed articles published between 2014 and 2024.

The findings reveal a dual layered dynamic in the workplace. On one hand, Generation Z's natural technological comfort allows them to act as early adopters and informal tech guides, driving "reverse mentorship" programs that help older colleagues adjust to AI tools. On the other hand, their integration creates specific organizational vulnerabilities. Our model highlights severe intergenerational friction with traditional supervisors, a notable risk of "cognitive offloading" causing skill atrophy for roughly 19% of young workers and increased psychological isolation within AI driven workflows.

Ultimately, this study shows that leveraging the digital native advantage requires managers to move away from simply providing tools and instead focus on holistic, people centered governance. These insights offer a practical framework for business leaders and HR professionals looking to maintain competitive, collaborative, and human focused teams in an AI driven era.

Keywords

Artificial Intelligence, Generation Z, workplace integration, management, AI ethics, organizational behavior, generational dynamics

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ISSN : 2658-9311
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Introduction

The rapid spread of artificial intelligence (AI) in business environments has moved past the stage of simple automation. Today, tools like generative AI, predictive systems, and automated data processors are fundamentally changing how teams communicate, how decisions are made, and how day-to-day management operates. While the operational benefits such as increased speed, lower costs, and less repetitive labor are clear, bringing these technologies into a traditional office setting is not a seamless process. It introduces real challenges, including ethical questions around data use, shifts in team dynamics, and concerns over how human employees develop their skills. Traditional management frameworks are finding it difficult to keep up with these changes, creating a strong need for an adaptable workforce that can bridge the gap between human workflows and digital tools.

At the same time, a major demographic shift is happening as Generation Z (individuals born between 1995 and 2011) enters the workforce in large numbers. In current organizational research, Gen Z is recognized as the first generation of true digital natives. Unlike previous cohorts who had to adapt to computers and smartphones later in life, Gen Z grew up completely immersed in digital environments. This gives them intuitive comfort with technology, meaning they tend to view AI not as a complex or intimidating tool, but as a normal, everyday resource. Combined with their distinct expectations regarding workplace ethics, transparency, and social impact, Gen Z's natural digital fluency positions them to play a unique role in how companies adopt and manage AI.

However, a significant gap exists in current management literature regarding how Gen Z interacts with AI in professional settings. Many popular business articles oversimplify this relationship, assuming that because young workers love technology, they will automatically adopt any AI tool without critique. Real world signals suggest a much more complex, and sometimes conflicting, reality. While many young professionals successfully use AI to eliminate boring administrative tasks, they frequently face friction from older supervisors who are hesitant to change. Furthermore, a deeper tension is emerging between short-term productivity and long term career growth. There are growing concerns that relying too heavily on automated outputs can lead to "cognitive offloading “a process where foundational skills like analytical thinking, independent research, and writing begin to weaken because the machine is doing the work.

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This study addresses these practical and theoretical tensions by answering a central question: *How does Generation Z's digital native background influence modern management practices, and what are the hidden organizational challenges connected to their use of AI tools?* Moving away from simple summaries, this paper uses a structured PRISMA 2020 protocol to review the literature. By analyzing 48 peer reviewed articles, we map out the dual role of Gen Z as both early adopters who push productivity forward and as informal mentors who guide their older colleagues through digital transitions. In terms of scope and objective, this research investigates the strategic alignment between Generation Z's digital capabilities and organizational AI integration, aiming to conceptualize how young professionals drive managerial transformation through reverse mentorship while navigating structural risks such as skill atrophy. To achieve this, the paper is structured as follows: Section 2 establishes the theoretical foundations and literature review regarding AI definitions and Gen Z behavioral traits; Section 3 details the PRISMA 2020 systematic methodology and screening protocol; Section 4 presents the findings, dual-pathway model, and theoretical propositions; Section 5 provides the discussion and managerial implications; Section 6 outlines limitations and future directions; and Section 7 concludes the study.

1. THEORETICAL FOUNDATION

1.1. Foundations and Evolving Definitions of Artificial Intelligence

Artificial Intelligence (AI) is a broad and changing field with many different interpretations. Because technology moves so fast, researchers across disciplines have struggled to agree on a single, permanent definition. Instead of looking for one universal concept, management literature shows that it is more useful to look at how these definitions have changed over time based on the practical tasks machines are built to handle.

To make sense of these different viewpoints without getting lost in technical jargon, we can organize the main definitions into three distinct groups: **Cognitive/Mimetic** (systems that mimic human thought), **Operational/Functional** (systems focused on processing data and automating tasks), and **Socio Regulatory** (systems viewed as autonomous agents that interact with humans under specific rules).

The table below summarizes these different viewpoints and explains what they mean for workplace management.

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Table 1 different viewpoints in relation with workplace management

Theoretical Perspective	Key Authors & Sources	Core Definition	Meaning for Organizational Management
Cognitive / Mimetic Perspective *(Mimicking human thought)*	Kurzweil (1990) ; Ng & Leung (2020)	Computing systems designed to copy or emulate human learning, problem solving, rational decision making, and emotional responses.	This view treats AI as an autonomous thinker. In an office setting, it changes the classic boss employee dynamic because the machine starts making decisions on its own rather than just storing data.
Operational / Functional Perspective *(Focus on tasks and automation)*	Nilsson (1991)	Systematic tools driven by algorithms that solve technical issues, process heavy data, and handle repetitive actions without fixed human programming.	This is the everyday view of AI as a tool to save time. This explains why Generation Z treats AI like an automated teammate—using it to offload administrative burdens so they can focus on creative or social projects.

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Socio Regulatory Perspective *(Focus on ethical rules and goals)*	High Level Expert Group on AI (2019) ; Nah et al. (2020) ; EU AI Act (2021)	Autonomous systems that analyze their environment and take independent action to achieve specific goals while respecting social values and safety guidelines.	This perspective treats AI as a regular member of the workplace that needs rules. It connects perfectly with Gen Z's core values, as young workers strongly demand data privacy, transparency, and ethical accountability from employers.

Source: Authors' elaboration based on literature review

1.2. Understanding Generation Z: Traits, Values, and Impact in a Digital World

Defining Generation Z: Origins, Labels, and Contextual Influence

Generation Z refers to individuals born between 1995 and 2011. The defining feature of this generation is their constant, lifelong connection to digital technology habits often described as the "phone in hand" phenomenon. Unlike previous generations who experienced the birth of the internet as an adult transition, Gen Z grew up in an environment where smartphones, social media, accessible networks, and cloud computing were already part of daily life.

Because of this intense relationship with the digital world, researchers and media outlets have given this cohort numerous labels. These include terms like I Generation, Gen Tech, Online Generation, Post Millennials, and Facebook Generation. In organizational literature, two specific labels stand out because they describe their potential impact on corporate culture:

- **The "C Generation" (Connected Cohort):** This title highlights their core habits: being constantly *connected*, *computerized*, actively *communicating*, focused on digital *content*, and highly *community oriented*. It also emphasizes that they are open to constant *change*.

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- **The "R Generation" (Responsibility Generation):** This label underscores a deep sense of social accountability, ethical awareness, and transparency that they expect from themselves and their future employers.

Characteristics and Defining Traits of Generation Z

When looking at how Gen Z interacts at work, communication is a highly debated topic. While some early studies suggested that young workers still value face-to-face contact for deep career discussions, the consensus in recent management research shows a strong, natural preference for digital communication. They favor text messaging, virtual collaboration platforms, and social media networks to build relationships and manage their daily workflows.

Beyond technology, Gen Z is driven by strong altruistic and personal values. They prioritize environmental sustainability, social justice, and workplace inclusivity. In professional relationships, they place a high premium on honesty, loyalty, and personal responsibility. They are intrinsically motivated, meaning they look for a clear sense of purpose in their jobs rather than working solely for a salary. This mindset makes them comfortable challenging traditional office norms if they feel a corporate practice is outdated or unethical.

Finally, Gen Z possesses a distinct, independent mindset. Often called the "Do-it-yourself" (DIY) generation, they use online resources and self-guided learning to solve problems creatively. This entrepreneurial spirit makes them highly innovative and capable of multitasking across different digital platforms.

However, this digital first lifestyle comes with clear challenges. Growing up behind screens has led researchers to label Gen Z as one of the loneliest generations, exhibiting high rates of social anxiety and isolation. Furthermore, because their parents experienced severe financial recessions, Gen Z remains highly pragmatic about money, valuing job stability and financial security even as they demand meaningful and purpose driven work

Embracing AI: How Generation Z is transforming the Workforce dynamics

Adoption Rates and everyday Integration

Because Generation Z grew up surrounded by technology, they display an intuitive comfort when using artificial intelligence in professional settings (Berkup, 2014). This baseline comfort was further accelerated by the remote work and online learning trends during the COVID19

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pandemic, which permanently cemented their reliance on digital workflows (Kılınç & Varol, 2021).

Macroeconomic data underscores this rapid adoption curve: empirical research indicates that 75% of Gen Z individuals have interacted directly with generative AI tools, compared to 59% of Millennials, 49% of Generation X, and only 39% of Baby Boomers (Pandya/Adobe Blog, 2024). With Gen Z projected to make up nearly 30% of the global labor workforce by 2030, understanding this high rate of technology adoption is essential for corporate leaders and strategic human resource managers (Otieno & Nyambegera, 2020).

This integration goes far beyond casual or recreational use. Structural studies show that roughly 36% of young workers use generative AI specifically for their daily professional tasks, with 72% utilizing these algorithmic platforms multiple times a week (Talent-LMS, 2024). Rather than treating AI as a cold or complex software program, Gen Z employees often view it as an active teammate or a tool to amplify their creative and analytical output (Talent-LMS, 2024). This seamless integration allows them to approach new digital systems with enthusiasm rather than the hesitation frequently seen in older generational cohorts (Grow & Yang, 2018; Lanier, 2017).

Proactive Learning and the "Bring Your Own AI" (BYOAI) Trend

A key strength of Gen Z workers is their capacity for self-guided, proactive learning. Because AI technologies evolve rapidly, formal company training programs often lag behind technical rollouts (Jamil, 2020). Gen Z employees bridge this training gap by independently seeking out tutorials, forums, and self-guided online resources to master new digital tools (Chaudhary, 2021). To them, adapting to weekly software updates is second nature, whereas it can easily overwhelm traditional supervisors who are accustomed to slower-paced tech rollouts (Lanier, 2017).

This proactive approach has driven a significant corporate trend known as "Bring Your Own AI" (BYOAI). According to work trend indexes, approximately 85% of Gen Z workers bring their own unprovided, external AI tools into their daily professional workflows to boost efficiency (Fast Company, 2024). While about 80% believe that generative AI helps them achieve more at work, this behavior creates an interesting management paradox: young workers are actively driving operational productivity, but they are doing so using unauthorized software that intentionally bypasses corporate IT guidelines and data security frameworks (Fast Company, 2024).

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The Double-Edged Sword: Skill Impacts and Reverse Mentorship

The widespread use of AI among young professionals has created a complex, double-edged sword regarding human capital skill development. On the positive side, 66% of Gen Z employees report that using AI at work has improved their professional capabilities by teaching them how to interpret data, engineer prompts, and collaborate with smart systems (Talent-LMS, 2024).

However, a significant minority of nearly 20% express clear concern that overreliance on these automated tools has a negative long-term impact, leading to an algorithmic dependency that could cause basic cognitive, writing, or analytical skills to weaken over time (Talent-LMS, 2024).

Despite being the youngest and least experienced members of the corporate structure, their technical fluency has triggered an inversion of traditional office learning models through "reverse mentorship" (Wilson et al., 2017). Many Gen Z workers organically take on informal, uncredited roles where they guide, troubleshoot, and train senior colleagues who struggle with automation or digital communication interfaces (Chillakuri, 2020; Lanier, 2017). While these dynamic builds cross-generational bridges and helps older employees adapt, it also places an undocumented, unpaid training burden on early-career workers that is rarely captured in formal performance reviews.

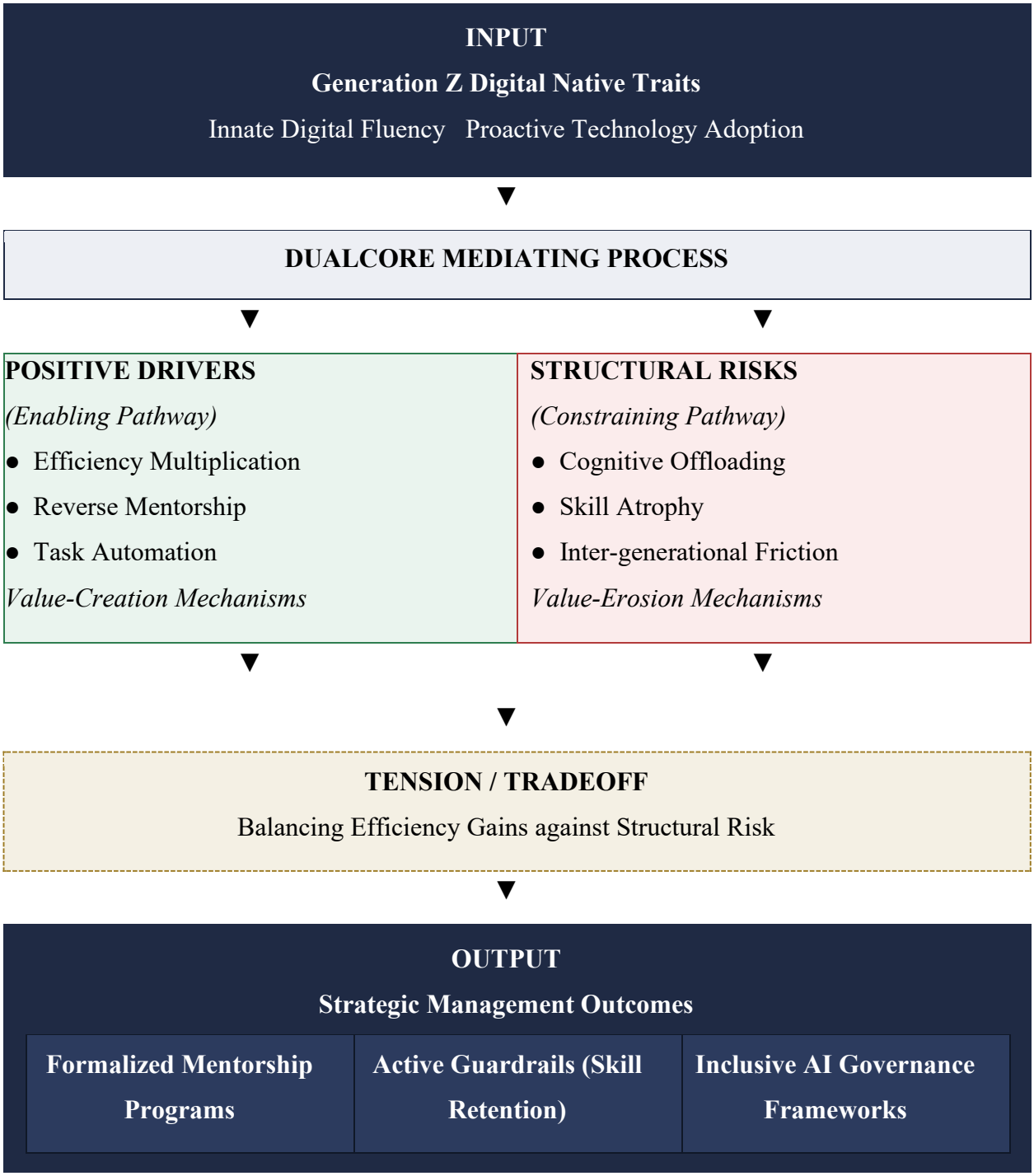
Table 2 Framework Summary

Layer	Component	Elements
Input	**Digital Native Traits**	Innate Digital Fluency; Proactive Tech Adoption
Mediator	**Positive Drivers**	Efficiency Multiplication; Reverse Mentorship; Task Automation
Mediator	**Structural Risks**	Cognitive Offloading; Skill Atrophy; Intergenerational Friction
Output	**Strategic Outcomes**	Formalized Mentorship; Active Guardrails; Inclusive AI Governance

Source: Authors' elaboration based on literature review

Conceptual Framework Diagram

Generation Z Digital Fluency and Strategic Management Outcomes



Source: Authors' elaboration based on literature review

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2. METHODOLOGY

2.1. Epistemological Positioning and Methodological Rationale

From an epistemological standpoint, this research adopts an interpretivist paradigm with an inductive qualitative narrative approach. Given the rapidly evolving nature of Artificial Intelligence and Generation Z workforce dynamics, an inductive design allows for the conceptualization of emerging managerial patterns directly from peer-reviewed literature. A systematic qualitative synthesis was prioritized over quantitative empirical testing to construct a comprehensive conceptual framework that integrates diverse organizational contexts, behavioral insights, and technology adoption dynamics.

This study utilizes a qualitative narrative framework to evaluate the integration of artificial intelligence within Generation Z's professional ecosystems and its corresponding impact on modern human capital management practices. To guarantee transparency, conceptual replicability, and a structured, nonbiased study collection process, the research data collection and screening phase were executed following the PRISMA 2020 (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) guideline

2.2.Search Strategy and Data Sources

The literature review was conducted across five major databases: Google Scholar, ScienceDirect, Wiley Online

Library, JSTOR, and Springer. To capture the intersection of generational workplace behavior and algorithmic developments, the search query used Boolean operators to combine specific keyword string sets: ("Generation Z" OR "Gen Z" OR "digital natives") AND ("artificial intelligence" OR "AI" OR "generative AI") AND ("workplace integration" OR "organizational management" OR "corporate behavior").

2.3.Inclusion and Exclusion Criteria

Clear selection rules were established prior to the evaluation stage:

Inclusion Criteria: (1) Peer-reviewed academic journal publications, conference proceedings, and structured theoretical or conceptual papers; (2) Studies focusing directly on corporate environments, human resource settings, or organizational behaviors; (3) Research published predominantly between 2014 and 2024 to capture modern trends alongside foundational generational baselines.

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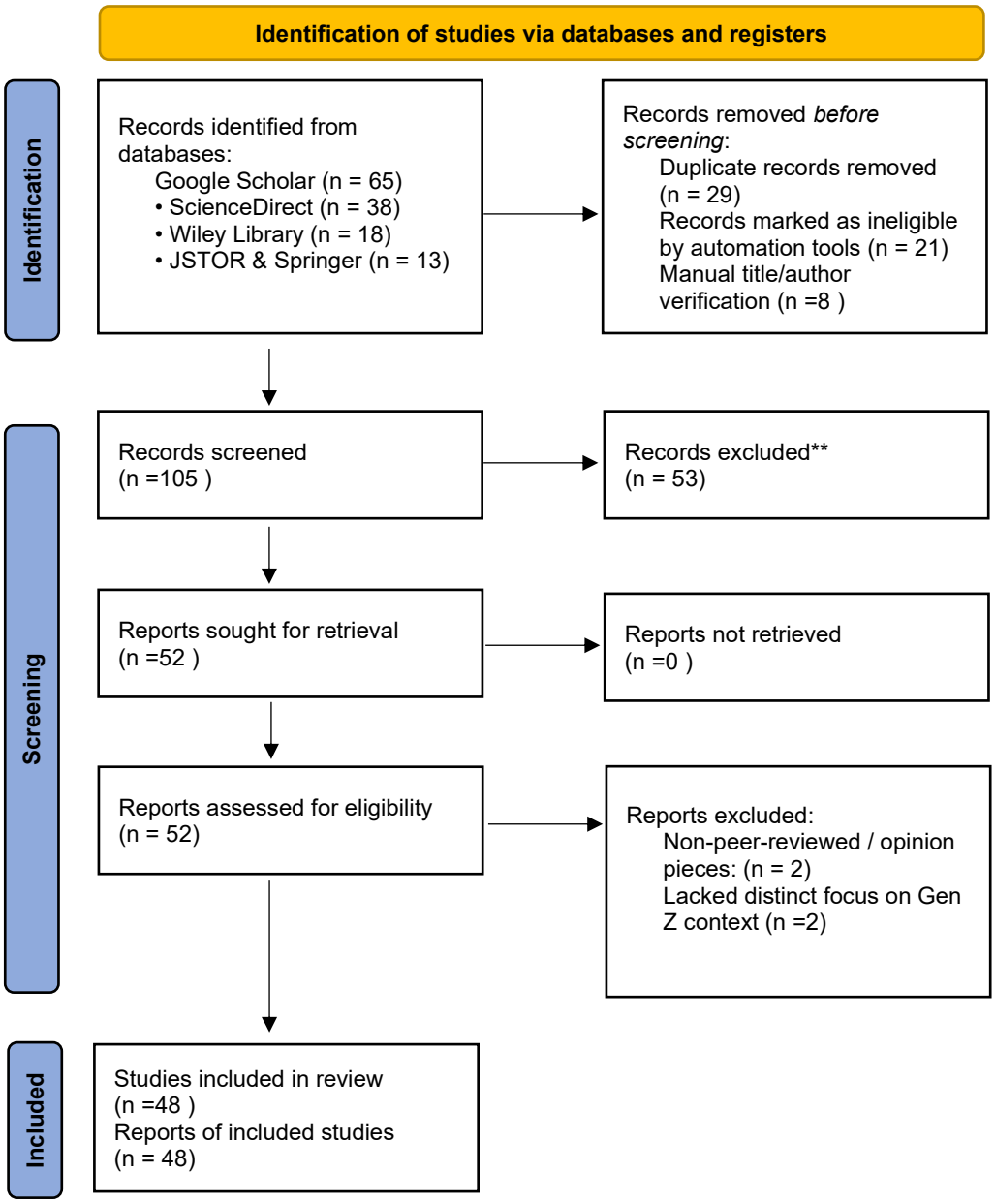
Exclusion Criteria: (1) Unverified commercial blog entries, newspaper articles, or brief commercial opinion sheets; (2) Research evaluating Generation Z solely from a consumer behavior or B2C marketing perspective; (3) Frameworks lacking a distinct focus on the specific structural attributes of the Generation Z workforce.

The initial automated database query retrieved a raw pool of 134 records. Following a thorough deduplication check (removing 29 duplicate papers via automated and manual validation) and a strict screening phase across titles, abstracts, and full texts, a final selection of 48 peer-reviewed articles was preserved for qualitative content synthesis.

Figure 2: PRISMA 2020 Flow Diagram representing the systematic search and selection process



Source: Adapted from PRISMA 2020 statement (Page et al., 2021)

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ISSN : 2658-9311
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3. RESULTS AND FINDINGS

3.1.Technological Intuition, Active Adoption, and Efficiency Multipliers

Literature indicates that Generation Z engages with workplace AI through an intuitive baseline of digital fluency, viewing these tools as an organic extension of their environment (Berkup, 2014; Dolot, 2018). This comfort drives them to be active early adopters who expect modern digital strategies to be embedded in their daily routines (Çora, 2019). Consequently, Gen Z employees regularly experiment with embedded AI features without waiting for formal corporate training programs (Chillakuri, 2020).

They actively use generative AI and automated tools to offload mechanical, repetitive, or lower-demand tasks—such as processing high data volumes or summarizing complex text structures (Castro, 2016; Carlson, 2014). This positions AI as an efficiency multiplier, freeing up time for creative outputs (Pandya/Adobe Blog, 2024). This proactive mindset has driven a widespread "Bring Your Own AI" (BYOAI) trend, where employees independently introduce unprovided external AI software into daily operations, treating platforms as active teammates (Fast Company, 2024; Talent-LMS, 2024).

Proposition 1 : The innate technological fluency of Generation Z serves as a direct driver for autonomous AI adoption and task automation within teams, significantly decreasing reliance on traditional corporate training programs.

3.2.Inverted Workplace Hierarchies and the Reverse Mentorship Dynamic

The rapid adoption of AI tools has caused an inversion of traditional top-down training models. Because AI platforms evolve at a weekly pace, older supervisors and colleagues frequently experience technical hesitation or inertia regarding human-machine communication networks (Guzman & Lewis, 2020; Hancock et al., 2020). To bridge this digital gap, Generation Z workers regularly step into informal technical roles, troubleshooting automated tools and demonstrating prompt engineering methods to senior staff (Shyam Sundar & Lee, 2022).

When supported by organizations, this cross- generational interaction helps traditional managers adjust to automated journalism, analytics, and software shifts (Carlson, 2014; Jamil, 2020). While senior employees gain functional AI literacy, Gen Z workers develop crucial human resource competencies and leadership communication skills (Lubis et al., 2019). However, this informal training burden falls disproportionately on early-career workers without being officially

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tracked, compensated, or credited during formal performance evaluations (Chillakuri, 2020; Lanier, 2017).

Proposition 2 *The deployment of rapid AI updates triggers an inversion of classic corporate learning structures, establishing Gen Z employees as crucial informal mentors while increasing their unquantified workload*

3.3.Cognitive Offloading, Skill Atrophy, and Psycho-Organizational Risks

Gen Z's relationship with AI introduces clear structural vulnerabilities. Data indicates that nearly 20% of young professionals express concern that an overreliance on automated tools creates a risk of severe cognitive offloading, where machine learning systems dictate the analytical outcome instead of human judgment (Kaplan & Haenlein, 2020; Talent-LMS, 2024). Consistently outsourcing foundational tasks like analytical writing, accounting calculations, and critical review can cause core human skills to weaken over time (Talent-LMS, 2024).

This reliance is closely tied to psycho-organizational risks. While Gen Z remains highly connected through digital interfaces, they experience high rates of workplace isolation and social anxiety when professional communication becomes heavily mediated by algorithms (Hancock et al., 2020).

Furthermore, intergenerational friction occurs when young employees, eager to deploy fast AI solutions, meet resistance from traditional managers focused heavily on ethical guidelines, risk management, and slow corporate approval frameworks (AI/HLEG, 2019; Ryan, 2020). This friction can cause immediate frustration, leading tech-fluent workers to question their workplace motivation and consider alternative employment options if they perceive their organization as technologically stagnant (Mahmoud et al., 2021; Sidorcuka & Chesnovicka, 2017).

Proposition 3: Unregulated reliance on autonomous AI engines increases the risk of cognitive offloading among early-career workers, creating a notable tradeoff between immediate operational speed and long-term analytical skill development.

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4. DISCUSSION AND MANAGERIAL IMPLICATIONS

4.1.Discussion

The qualitative synthesis of the 48 selected peer-reviewed articles reveals that Generation Z acts as a dual-force within modern corporate structures. They are not merely passive users of automated software; their everyday adoption patterns actively change organizational norms. While traditional management frameworks assume top-down knowledge transfer where senior staff dictate technological workflows, the emergence of the "Bring Your Own AI" (BYOAI) trend completely upends this model (Fast Company, 2024).

However, this structural shift introduces critical long-term vulnerabilities that current management literature has yet to fully resolve. The primary risk is the tradeoff between immediate operational speed and future human capability. If early-career professionals continuously delegate foundational tasks like analytical writing, reporting, or code creation to machine learning engines, organizations face a future deficit of deep domain expertise and independent critical judgment (Talent-LMS, 2024). Furthermore, relying on software to mediate standard team communications risks deepening the professional isolation and social anxiety already noted within this cohort (Hancock et al., 2020).

4.2.Practical Implications for Corporate Managers

To leverage the digital native advantage without sacrificing long-term skill development, corporate leaders and HR practitioners should implement three strategic interventions:

- **Formalize Reverse Mentorship Pathways:** Instead of allowing the technical training burden to fall informally on young workers, organizations should institutionalize AI literacy programs (Chillakuri, 2020; Lanier, 2017). Gen Z employees should be officially recognized and credited for leading prompt engineering workshops for senior staff, building cross-generational collaboration (Lubis et al., 2019).
- **Establish Active Learning Guardrails:** Managers must define clear guardrails regarding *when not to use AI*. Critical thinking, ethical reviews, and strategic planning tasks should remain humancentric to mitigate cognitive offloading and prevent skill atrophy (Kaplan & Haenlein, 2020).
- **Develop Inclusive AI Governance:** Because Generation Z heavily values corporate responsibility and accountability, involving them in drafting ethical AI policies will boost

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their workplace motivation and long-term retention (AI/HLEG, 2019; Mahmoud et al., 2021).

5. LIMITATIONS AND FUTURE RESEARCH DIRECTIONS

This review possesses certain structural boundaries. First, because it relies on a qualitative narrative synthesis framework, it aggregates existing literature rather than analyzing primary raw empirical datasets. Second, the existing body of literature frequently treats Generation Z as a single, uniform demographic block, overlooking potential differences driven by geographic location, industry sectors, or socioeconomic backgrounds.

Future research should focus on longitudinal field studies and quantitative surveys within specific industries—such as software development, legal services, or finance—to measure the exact long-term rate of skill atrophy. Additionally, future research should explore how fully remote versus hybrid corporate environments influence the technical adoption patterns and mental wellbeing of young professionals working alongside automated tools.

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ISSN : 2658-9311
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Conclusion

This study investigated how Generation Z's natural digital fluency influences modern human capital management, highlighting the unique operational and psychological adjustments connected to corporate AI tools. By utilizing a structured PRISMA 2020 protocol to evaluate the current literature, we mapped out a clear picture of how this generational cohort acts as both an organizational asset and a source of new managerial challenges.

Ultimately, the digital native advantage functions as a double-edged sword. Gen Z brings unmatched tech-savviness, operational speed, and an organic capacity to guide senior colleagues through digital updates. However, unguided reliance on these systems can lead to cognitive offloading, intergenerational office friction, and deep feelings of isolation. For modern organizations, successful integration requires balancing digital acceleration with meaningful human interaction, ensuring that technology serves to amplify human potential rather than replace it.

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African Scientific Journal
ISSN : 2658-9311
Vol : 03, Num 37 Août 2026

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