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## AI as a Tool for Improving Work Efficiency and Well-Being

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### Abstract:

**Purpose:** This paper examines how artificial intelligence (AI) tools influence employees' work-life balance (WLB) in contemporary organizations. It analyzes both the opportunities and the risks associated with the implementation of AI in work design, communication, learning, and performance management. The study also explores how AI-supported practices may affect employee motivation, well-being, and organizational effectiveness.

**Design/methodology/approach:** The article adopts a conceptual research approach based on a critical review of literature on work-life balance, digital work, artificial intelligence, and human resource management. The analysis integrates perspectives from organizational behavior, management studies, and selected business practice examples. Particular attention is given to AI-enabled flexibility, task automation, and the ethical implications of digitally mediated work systems.

**Findings:** The analysis suggests that AI may positively support work-life balance by automating routine tasks, enabling more flexible work arrangements, and personalizing learning and work processes. At the same time, AI may also intensify boundary erosion, permanent connectivity, and performance pressure if implemented without appropriate

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*safeguards. The findings indicate that the impact of AI on WLB is not inherently positive or negative, but depends on organizational design, managerial practice, and the human-centeredness of implementation.*

**Research limitations/implications:** *The paper is conceptual and based on secondary sources rather than original empirical data. Future research should examine how specific AI tools influence work-life balance across occupations, sectors, and demographic groups. Additional empirical studies could also assess the long-term effects of AI-supported flexibility on motivation, burnout, and employee retention.*

**Practical recommendations:** *Organizations should adopt a human-centered approach to AI implementation and ensure that digital tools support rather than undermine employee well-being. HR departments should combine AI deployment with transparent governance, flexible work policies, digital boundary protection, and ethical data practices. AI should be used to reduce unnecessary workload, increase autonomy, and strengthen employee support systems.*

**Keywords:** *Artificial Intelligence, work-life balance, digital work, human resource management, employee well-being, flexible work.*

**JEL Code:** *J24, M12, M54, O33.*

**Paper type:** *Conceptual paper.*

**Declaration of interest statement:** *The authors declare that they have no conflict of interest.*

## **1. Introduction**

In a rapidly changing world characterized by technological acceleration and global market integration, work-life balance (WLB) has become an increasingly important dimension of human resource management (Daugherty and Wilson, 2018; Westerman *et al.*, 2014) Contemporary labor markets place growing demands on employees in terms of adaptability, responsiveness, and time pressure, which makes the ability to maintain a sustainable relationship between professional and private life a strategic issue for both workers and organizations.

In this context, the growing use of artificial intelligence (AI) tools in management and work organization raises important questions about their impact on employees' work-life balance. This perspective is consistent with classical management theories emphasizing the role of effective organization and managerial responsibility in shaping performance and employee outcomes (Drucker, 1976; Robbins, 2001; Penc, 2010).

Work-life balance is no longer treated merely as an employee benefit or a matter of personal preference. It is increasingly recognized as an organizational factor affecting motivation, productivity, engagement, retention, and employer reputation. Prior research suggests that organizations that actively support WLB contribute not

only to healthier and more sustainable working environments, but also to stronger employee commitment and improved business performance (Knosala, 2017; Wróbel, 2016).

Recent studies associated with your broader research area likewise indicate that work-life balance is positively related to motivation and remains a significant component of effective business management, especially in dynamic and digitally transforming work environments (Kasperczuk *et al.*, 2025).

At the same time, AI tools are becoming more deeply embedded in the workplace. They are used to automate repetitive tasks, support communication, personalize learning, improve analytics, optimize scheduling, and assist managerial decision-making. Such technologies may reduce administrative burden, increase flexibility, and create more time for strategic and creative work (Deloitte, 2024; Salesforce, 2021; Salesforce, 2022).

However, they may also contribute to constant connectivity, elevated performance expectations, digital surveillance, and the erosion of boundaries between work and private life. As a result, the influence of AI on WLB is likely to be ambivalent and contingent on how these tools are designed and governed.

Artificial intelligence is increasingly reshaping the temporal, cognitive, and relational structure of work. However, the literature has only partially addressed how these transformations affect employees' work-life balance as a distinct organizational and human resource issue. Existing studies tend to focus either on productivity gains, task automation, and organizational efficiency, or on broader concerns related to digital stress and employee well-being (Newman, 2023).

Comparatively less attention has been paid to the mechanisms through which AI simultaneously creates conditions that may either support or undermine work-life balance, depending on how work is designed, how managerial control is exercised, and how employee autonomy is protected.

This paper addresses that gap by developing a conceptual framework that explains the dual role of AI in shaping work-life balance. More specifically, the article argues that AI influences WLB through two competing pathways. On the one hand, AI may improve work-life balance by reducing routine workload, increasing flexibility, supporting personalized development, and enhancing employees' capacity to organize their work more effectively.

On the other hand, AI may undermine work-life balance by intensifying permanent connectivity, performance pressure, digital surveillance, and the erosion of work-nonwork boundaries. The overall effect depends on organizational conditions, especially the extent to which AI implementation is guided by transparent

governance, boundary protection, employee autonomy, and human-centered managerial practices.

The article contributes to the literature in three ways. First, it integrates research on AI, digital work, and work-life balance into a single conceptual model. Second, it distinguishes between enabling and disruptive pathways through which AI affects employee well-being. Third, it identifies the organizational conditions under which AI is more likely to support rather than weaken work-life balance.

To make this contribution more explicit, the paper advances the following propositions:

***Proposition 1.*** AI tools are positively associated with employees' work-life balance when they reduce routine workload, improve task efficiency, and increase flexibility in how work is organized.

***Proposition 2.*** AI tools are negatively associated with employees' work-life balance when they increase permanent connectivity, performance pressure, digital monitoring, and boundary erosion between work and private life.

***Proposition 3.*** The relationship between AI use and work-life balance is moderated by human-centered organizational practices, including transparent governance, employee autonomy, digital boundary protection, and supportive managerial communication.

***Proposition 4.*** AI implementation improves employee well-being and motivation only when technological efficiency is complemented by HR policies that protect recovery time, reduce overload, and maintain employee control over work processes.

The remainder of the paper is structured as follows. The next section discusses the potential positive impact of AI tools on work-life balance. The third section presents the main risks and tensions associated with AI-supported work. The fourth section offers an illustrative organizational example, while the fifth discusses practical implications for HR departments. The final section provides conclusions and directions for future research.

## **2. Conceptual Framework: AI and Work-Life Balance**

The conceptual framework proposed in this paper is based on the assumption that artificial intelligence is not inherently beneficial or harmful to employees' work-life balance. Rather, its impact is contingent on the way it restructures work and on the organizational context in which it is implemented.

AI changes work by altering the distribution of tasks, the speed of communication, the level of monitoring, the flexibility of scheduling, and the degree of employee

autonomy. These changes may produce both resource-enhancing and strain-inducing effects.

From a positive perspective, AI may function as a resource that reduces administrative burden, supports time efficiency, enables flexibility, and improves access to development opportunities. In this pathway, AI contributes to better work organization and gives employees greater control over how and when work is performed. These outcomes may strengthen work-life balance by reducing overload, increasing adaptability, and enabling more effective coordination between professional and private roles (Jarmuż, 1998).

From a negative perspective, AI may also operate as a source of intensified demands. When AI-supported systems increase expectations of constant availability, accelerate work processes, strengthen digital surveillance, or create pressure to continuously adapt, they may undermine employees' ability to detach from work. In such cases, AI contributes to cognitive overload, emotional strain, and boundary erosion, which weaken work-life balance and reduce overall well-being (Giermindl *et al.*, 2022).

The framework therefore assumes that AI affects work-life balance through two competing mechanisms: an enabling pathway and a disruptive pathway. The enabling pathway is associated with automation, flexibility, personalization, and efficiency support.

The disruptive pathway is associated with connectivity pressure, performance intensification, surveillance, and reduced autonomy. Which of these two pathways becomes dominant depends on organizational moderators, especially transparent governance, employee-centered implementation, communication quality, and policies protecting nonwork time. The importance of managerial competencies and leadership effectiveness in shaping work conditions has also been widely discussed in management literature (Rakowska, 2007; Nogalski and Śniadecki, 2001; Markowski, 2003).

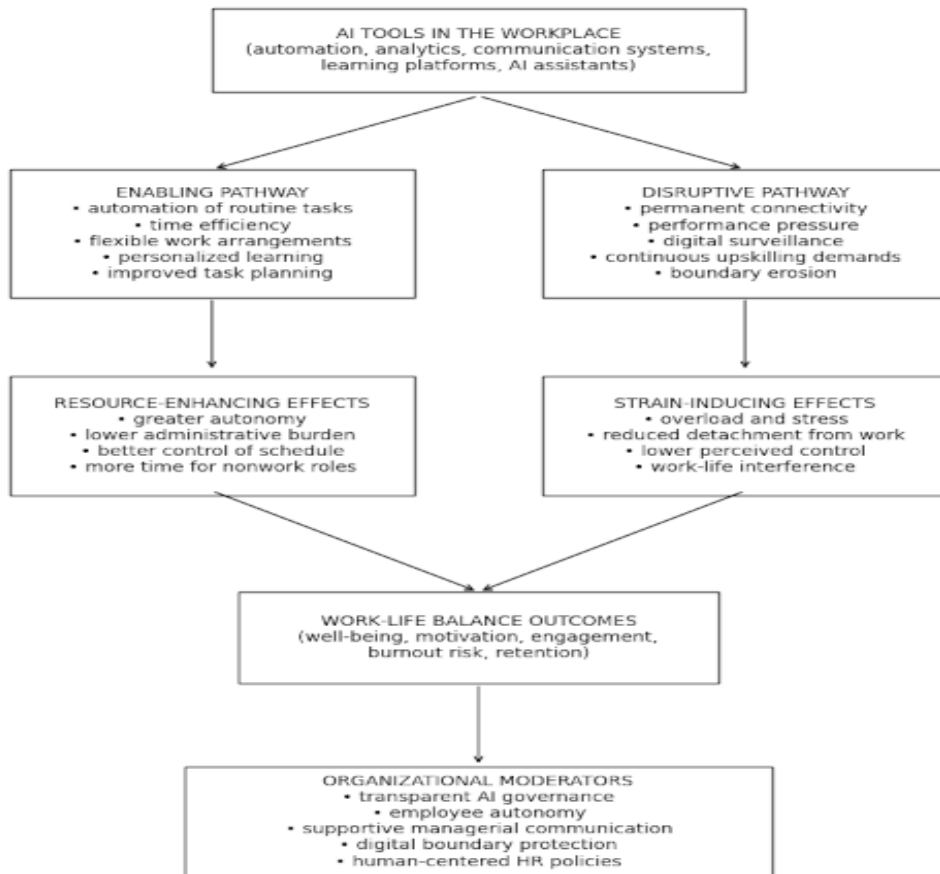
In this sense, the model does not treat AI as a direct determinant of employee well-being, but as a technology whose effects are mediated by work design and moderated by HR and managerial practices. This perspective allows the article to move beyond a simple optimistic-versus-pessimistic view of AI and instead explain why the same technology may produce divergent outcomes across organizations.

The proposed framework can also be interpreted through the lens of established organizational theories that explain the relationship between work design and employee well-being. From the perspective of boundary theory, work-life balance depends on the extent to which individuals are able to maintain psychological and temporal boundaries between professional and private roles.

Digital technologies and AI-supported systems may weaken these boundaries by increasing permanent connectivity and expectations of rapid responsiveness. At the same time, if implemented responsibly, AI may help employees manage work tasks more efficiently and thus protect nonwork time. These observations are consistent with studies on boundary management and work-life integration in contemporary work environments (Kubacka and Mroczkowska, 2020; Mroczkowska and Kubacka, 2020; Krzykus, 2019; Menderak, 2019).

A complementary explanation can be derived from the Job Demands–Resources (JD-R) model, which suggests that employee well-being results from the balance between job demands and available resources. AI may function either as a resource, by reducing routine workload, supporting task efficiency, and enabling flexible work arrangements, or as an additional demand when it increases monitoring, performance pressure, or cognitive overload.

**Figure 1.** Conceptual framework of the relationship between AI tools and employees’ work-life balance.



*Source:* Authors’ own elaboration.

Finally, the framework is consistent with the sociotechnical systems perspective, which emphasizes that organizational outcomes depend on the joint optimization of technological systems and human work processes. In this view, the effects of AI on work-life balance are shaped not only by technological capabilities but also by managerial practices, HR policies, and organizational culture. Together, these theoretical perspectives support the central argument of this article that AI influences employee well-being through both enabling and disruptive pathways.

### **3. Potential Positive Effects of AI Tools on Work-Life Balance**

Work-life balance plays an important role in strengthening employee motivation and influencing organizational functioning. Organizations that understand the significance of balancing work and private life are more likely to create healthier and more productive work environments, while also developing a positive employer image. This connection is also reflected in recent research showing that flexible work arrangements and other WLB-supporting practices are strongly associated with employee motivation and organizational effectiveness (Kasperczuk *et al.*, 2025).

One of the key ways in which AI tools may positively affect WLB is through the automation of routine and time-consuming tasks. By taking over repetitive activities, AI can reduce employee workload and free up time for higher-value strategic and creative tasks, as well as for personal life.

AI-based systems can, for example, streamline recruitment, support employee data analysis, personalize learning processes, and automate low-value administrative work. From a work-life balance perspective, this may lead to better time use, lower cognitive overload, and improved task efficiency within standard working hours.

AI can also support flexible work arrangements, including remote and hybrid work. Digital communication systems, collaborative platforms, and AI-enabled coordination tools make it easier to manage distributed teams, monitor progress, and align schedules across locations.

This can increase employee autonomy in organizing working time and combining professional duties with personal responsibilities. In this regard, recent work on remote and hybrid workforces in your publication network suggests that flexible work models require adapted organizational systems and management practices, but also open new opportunities for balancing efficiency with employee needs (Ćwiakła *et al.*, 2025).

Another positive pathway concerns AI-supported learning and development. AI-based educational platforms, such as those that personalize training pathways and recommend learning resources, allow employees to develop skills at their own pace and at times that fit their personal schedules. This may reduce the pressure associated with rigid training deadlines and contribute to better integration of

professional development with private life. This aligns with modern approaches to employee assessment and development, which emphasize individualized competence building and adaptive learning systems (Witkowski, 2022). In a broader HR context, such tools may also strengthen employee agency and reduce the stress associated with one-size-fits-all development systems.

AI may further support managers in making more informed and balanced decisions. Analytical tools can identify workload imbalances, detect possible overload within teams, and support more effective planning and task distribution. This can contribute to the prevention of burnout and promote healthier work rhythms. Research on communication and managerial practices also reinforces this perspective by showing that organizational effectiveness depends not only on systems and structures, but also on how managers shape communication, expectations, and support processes (Baran *et al.*, 2025; Górká *et al.*, 2025).

Finally, AI-based assistants and intelligent productivity systems may help employees manage time, prioritize tasks, and structure work more efficiently. If used responsibly, such tools may support better self-organization and strengthen employees' sense of control over their daily work. This is particularly important in digitally demanding environments, where work-life balance depends not only on formal policies but also on how effectively employees can navigate fragmented and information-rich work settings.

#### **4. Risks and Ambivalences: When AI Undermines Work-Life Balance**

Despite these potential benefits, AI tools may also create serious risks for work-life balance if implemented without adequate organizational safeguards. One of the most important concerns is the erosion of boundaries between work and private life. AI-supported work systems are often embedded in cloud-based environments, mobile devices, instant communication platforms, and always-available digital interfaces. As a result, employees may remain “always on,” which increases expectations of immediate responsiveness and makes psychological detachment from work more difficult.

This dynamic may intensify stress and contribute to burnout. The convenience and speed of AI-supported systems can paradoxically increase performance pressure, as organizations may begin to expect human workers to match the efficiency, responsiveness, or precision associated with algorithmic tools. In such environments, AI does not simply reduce workload; it may also redefine performance norms in ways that undermine work-life balance and increase emotional strain.

Another risk concerns the additional burden associated with technological adaptation. Although AI is often presented as a means of simplifying work, in practice it may require continuous upskilling, the learning of new interfaces, and the adjustment of work routines.

If this adaptation occurs without sufficient support or within employees' personal time, it may become another source of pressure rather than relief. The positive effects of AI on WLB therefore depend not only on functionality, but also on how learning demands are distributed and supported.

Ethical issues further complicate the relationship between AI and work-life balance. AI-based monitoring systems, productivity analytics, and algorithmic recommendations may generate concerns about privacy, control, and fairness.

Employees who feel constantly evaluated through digital systems may experience lower autonomy and greater stress, even when these tools are introduced under the banner of efficiency or support. For this reason, the ethical use of AI in the workplace must be treated as a central dimension of any WLB-oriented implementation strategy.

There is also a broader cultural risk: AI may reinforce a logic of optimization in which work is continuously accelerated and personal time becomes increasingly fragmented. If organizations use AI primarily to intensify labor rather than to reduce unnecessary workload, the technology may undermine rather than support employee well-being. Thus, the impact of AI on WLB ultimately depends on whether technology is deployed to expand human autonomy or to extend organizational control.

### **5. Illustrative Organizational Example: AI and Work-Life Balance in Salesforce**

A useful business example of AI implementation in relation to employee experience is Salesforce, a global company known for integrating AI into work processes through tools such as Einstein AI. Salesforce publicly reports that workplace automation can improve employee experience by reducing repetitive work and enabling employees to focus on more meaningful and strategic tasks.

In a company-linked survey, 89% of automation users reported greater job satisfaction and 84% reported higher satisfaction with their company as a result of automation use. Salesforce has also stated that automation saves employees time and may contribute to lower stress and better work-life balance.

From the perspective of this article, the importance of the Salesforce example lies less in the technology itself and more in the way implementation is framed. The company emphasizes training, transparency, trust, and flexibility, which are critical organizational conditions for translating technology into positive employee outcomes. This supports the argument that AI affects work-life balance not directly, but through the surrounding managerial and organizational system. When AI is introduced alongside flexible work practices, clear communication, and employee support, its impact on WLB is more likely to be positive.

At the same time, such corporate examples should be interpreted cautiously. Company-reported outcomes may not be directly generalizable across sectors or organizational cultures. Nevertheless, they offer an illustrative case showing that AI can support employee well-being when implemented as part of a human-centered strategy rather than as a narrow efficiency mechanism. This interpretation is consistent with your own broader line of work linking managerial practices, communication quality, and employee-centered organizational design to stronger business effectiveness (Baran *et al.*, 2025; Górká *et al.*, 2025).

## **6. Conclusion**

Contemporary organizations increasingly implement artificial intelligence as part of broader strategies aimed at improving operational efficiency and supporting employee well-being. As this article has shown, AI tools may positively influence work-life balance by automating routine tasks, enabling flexible work arrangements, personalizing development processes, and supporting better workload management. In such cases, AI can help employees make more effective use of working time and gain greater control over the relationship between professional and personal life.

At the same time, AI implementation also creates serious risks. Permanent connectivity, performance pressure, boundary erosion, continuous upskilling demands, and concerns about monitoring may all undermine work-life balance if technology is introduced without appropriate organizational safeguards. The impact of AI on WLB is therefore inherently ambivalent. It depends not on the existence of technology itself, but on the logic of implementation, the quality of management, and the broader HR framework within which AI operates.

The analysis presented in this article suggests that the most sustainable approach is one based on responsible, transparent, and human-centered AI implementation. Organizations should not treat AI as a substitute for human work or managerial sensitivity, but as a support mechanism that may reduce strain, increase autonomy, and improve employee well-being. HR departments play a crucial role in this process by developing ethical governance structures, protecting employees' private time, and ensuring that AI tools remain aligned with both organizational goals and employee needs. Supporting employees in adapting to AI-driven environments also requires continuous development of managerial competencies and leadership capabilities (Rakowska and Sitko-Lutek, 2000).

From a theoretical perspective, the article contributes to the literature by integrating AI, work-life balance, and HR management into a common analytical perspective. From a practical perspective, it offers a framework for understanding how organizations can translate AI adoption into healthier and more sustainable working environments. Future research should empirically examine how different categories

of AI tools affect motivation, burnout, and work-life balance across industries, occupations, and demographic groups.

The conceptual framework developed in this paper suggests that AI affects work-life balance through two competing pathways: a resource-enhancing pathway and a strain-inducing pathway. The propositions advanced in the article indicate that AI is most likely to improve employee well-being when automation, flexibility, and personalization are accompanied by transparent governance, employee autonomy, and effective boundary protection. By contrast, when AI intensifies surveillance, connectivity, and performance pressure, its effects are more likely to be detrimental to work-life balance.

Future research should also empirically test the conceptual framework proposed in this article. Quantitative and mixed-method studies could examine how different categories of AI tools influence work-life balance through the enabling and disruptive pathways identified in this paper, as well as how organizational moderators such as leadership practices, governance transparency, and digital boundary protection shape these relationships.

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