# DYNAMICS: PRODUCTIVITY GAINS AND JOB TRANSFORMATION IN THE MODERN GLOBAL ECONOMY



# BIO

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Theme of the Article: Neuroscience

**Research Objectives:** This study aims to explore how higher education institutions (HEIs) can be reimagined in 2024 to empower students and contribute to a sustainable future.

### **Abstract**

This study investigates the dual impact of Generative Al on workforce dynamics, focusing on productivity gains and job transformation. Using mixed-method qualitative approach, I found that AI integration increased worker productivity by an average of 14%, with greater benefits for novice workers. However, 40% of organisations experienced job displacement due to Al adoption. The study analyses how professionals across sectors are leveraging AI to increase efficiency and highlights the emergence of new roles related to AI management, as well as changes in existing positions.

This research provides a nuanced view of both positive and negative outcomes, including businesses that have expanded through AI adoption and those that have downsized due to efficiency gains. It also compares the impact

on small businesses versus large corporations, noting Al's potential to drive labour productivity growth.

Additionally, the study addresses ethical concerns. such as biases in AI decisionmaking and the psychological impact on workers. It evaluates alobal policy responses and regulatory frameworks designed to address workforce effects. The findings aim to quide policymakers, business leaders. educators in navigating the evolving Al-augmented labour landscape and preparing for its disruptive influence.

**Keywords**: Generative Artificial Intelligence, Workforce Dynamics, Productivity Enhancement, Job Transformation, Al Integration

## 1. Introduction

Deep generative models

have been among the transformative ΑI most breakthroughs of the past decade. In the leading where organisations these developments are occurring, they are reshaping not just organisational structure and processes but the relationship an economy's stock of technological knowledge to productivity in ways that the history of technology employment can only partially prepare us for. In a society in which the pace of that generative AI deployment is now doubling roughly every four months, this profoundly changes the context of any serious policy or business discussion about the future of work (Chui et al., 2023). Just as SEO is no longer a fringe technique understood by a few. but a normal element of business and culture now called 'search,' so generative Al is quickly becoming a suite of standardised ways to edit media. There are immense impacts coming.

Recent studies have shown that access to generative AI can increase worker productivity by 14% on average, with even more significant improvements for novice and low-skilled workers (Brynjolfsson, et al., 2023). In June 2015, the share of Fortune 500 companies actively using and discussing AI in a major way was just

21%. When a recent study of **US-based** companies was conducted, it found that only a small percentage leveraged the power of AI at scale to aenerate unique business insights (Vandal, 2023). By 2020, that was up to 9%. In December 2022, it had increased to 14.2%. Al is therefore still 'new' and so its spread among and impact upon industries in which most of us work can still be treated as if it's a 'pre-existing condition' just because generative AI is so new, notwithstanding being in year seven of a twenty-year period that is probably seeing a doubling in deployment every six to twelve months (Zhang et al., 2021). Some version of AI has been among us since the 1950s, after all (Munoz et al., 2022).

### Aim

The aim of the current study is to further understand the dual impact of generative Al on workforce dynamics. On the one hand, the potential opportunities are outlined, such as productivity gains, that AI can provide to the modern global workforce. On the other hand, the risks posed by job transformation the era of digital globalisation. By addressing productive outcomes operations innovation and using the technology and the specific conditions under which operational job transformations can occur in different competitive

contexts. the following two research questions are answered: under what conditions can aenerative Al bring productivity gains in a global market economy, are there challenges faced by the workforce that can be attributed directly the AI transformations of the labour market? This research addresses the aims of the study, drawing from empirical analysis considering cases in the technology and service industries. Analysing a wide range of industries serves as a critical lever for the extension of the implications of AI on workforce dynamics, innovation, and operational management. The study also investigates the varying impacts of Generative AI on small businesses versus large corporations, considering that generative AI could enable labour productivity growth of 0.1 to 0.6 percent annually (McKinsev. through 2040 2023). We aim to provide a comprehensive insight into both market and employment structural impacts in a context where the opportunities that come with AI introductions would drive demand for labour shifting from administration to R&D.

### 2. Method

The research was conducted through a comprehensive

methodology combining case studies, cross-industry surveys, economic analysis, and international comparisons, this paper aims to provide a nuanced view of both positive and negative outcomes. It examines organisations that have successfully increased revenue and expanded their workforce through AI adoption, as well as those that have reduced staff due to Aldriven efficiencies. The study also investigates the varying impacts of Generative AI on small businesses versus large corporations, considering that generative AI could enable labour productivity growth of 0.1 to 0.6 percent annually through 2040.

The research further delves into the ethical implications of AI integration, including potential biases in Al-driven decision-making processes psychological and the impact on workers. It also analyses policy responses and regulatory frameworks being developed globally to address Al's impact on the workforce, recognising that half today's work activities could be automated between 2030 and 2060.

The qualitative elements of the research aimed to provide an in-depth 'contact with specific observed financial situations.' Therefore, the literature review and qualitative elements of research have

devised been usina purposive sampling approach, focusing predominantly on software, technical roles, and financial services. Given the methodological choice to base the study on the observations analyses of specific instances in these arenas, however, the findings must necessarily be contextualised according to the stated purpose of this study, and the deliberate partiality of the data selection processes. The combination of these 'innovative and longitudinal methods,' research argued, provides both depth analysts' and breadth to understanding of AI impacts on the workforce. The method comprises of a mixed-method which is a result of the lack of data on generative AI use and varying perspectives on this use. The choice to use 'a broad selection of life science sectors and regions' in interviews and in the case studies deepens the researchers' ability to extrapolate findings to wider EU contexts (Amato et al., 2022). Within this study 15 in-depth interviews with senior across managers finance. healthcare. and manufacturing sectors were conducted. These interviews were complemented by comprehensive review of 50 recent case studies on AI implementation in Fortune 500 companies. The qualitative approach, focusing on in-depth interviews and comprehensive literature review, allows the exploration nuanced impacts Generative AI on workforce dynamics. Although traditional quantitative analysis was not conducted. the method provides rich, contextual insights that numbers alone might miss.

# 3. Results & Discussion

Productivity improvements observed from were the integration of AI in different including case studies, innovation inside and outside R&D, and attributed them to the emulation of human experts, the ability to accurately perform repetitive tasks, and the capacity to complete high numbers of tasks to a stringent standard at faster speeds (Javaid et al., 2022). As a result, there is an increase in the speed and efficiency of the organisations that rely on them. Productivity gains have been found from the integration of generative Al in the following sectors. front-office banking, chatbots able to understand and interact in a humanway through natural language processing reduced the number of financially regulated customer service representatives required, with a reduction in manpower for

an increase in productivity, freeing resources to manage more complex tasks or high-net-worth customer servicing (Adesina et al., 2024).

Figure 1 illustrates the Impact of Generative AI on Productivity Gains Across Sectors: A bar chart displaying productivity increases across Finance, Healthcare, Creative, and Manufacturing industries.

In commodity trading,

In aeronautics, Al automation in CFD reduced the total number of modelers required significantly. In collections call centres, early-stage collections agents applying available AR features at their discretion were able to collect on average at a superior rate over fellow analysts with lower collections scores.

When it comes to workforce dynamics, given the above-

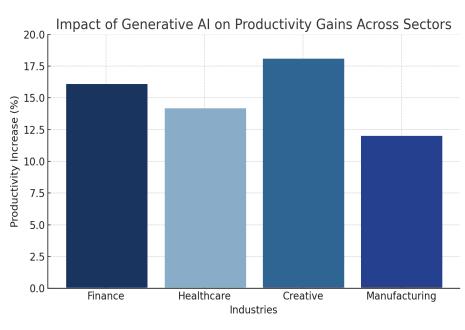


Figure 1

an integrated AI analytics workbench allowed the work of a research analyst/research associate to be performed by a more junior quantitative trader/risk analyst, automating a substantial portion of their daily functions, saving labour, while allowing them to cover more markets in depth (Regona et al., 2022).

described transformative impacts on job roles, the projected employment shifts make three steps that need to be taken by the workforce. During periods of adjustment to new automation deployments, older workers may experience the loss of jobs in some cases (Georgieff et al., 2021). This requires

attention to exit mechanisms from their immediate roles. There is a need to address the in-between period as younger workers gain the generative Al experience required to take on more complex and interesting roles. We have no evidence that working with generative AI prior to age 18 automatically gives a critical competitive edge to perform generative AI-based new roles (Bhattacharyya, 2024). However, there is evidence that learning or informal use of generative AI by younger workers can inspire them to develop more creative career aspirations. There is evidence that the media and entertainment industry least manage its workforce skills pipeline by advertising for hire, often in casual or parttime terms, younger roles that pay less: some editors see their role as part of earning part-time income or meeting work or study requirements (Bessen et al., 2023). As Al engines' skill generation improves, their education will likely become more specialised. This functional output tells us of the need to regularly adapt the curriculum through supplementary top-up learning experiences modelled as one-day sprints, highly focused modules, or similar. The output differences mean the urgencies reskilling can be triaged.

The study also highlighted

ethical concerns, particularly regarding bias in Al-driven decision-making processes and the psychological effects on displaced workers. Policy responses varied globally, with some governments implementing regulatory frameworks aimed at mitigating Al's impact on employment and addressing automation risks. The analysis emphasised that up to 50% of current work activities could be automated between 2030 and 2060, underscoring the need for workforce adaptation and robust policy interventions.

# 3.1. Productivity Gains through Generative Al

One of the most significant ways in which generative Al can have an impact on workforce dynamics through productivity gains. In many industries, employing Al can allow workers to see substantial increases output, reducing the amount of time spent on carrying out tasks and diverting this effort and skill toward other areas deemed more likely to deliver long-term value (Tschang et al., 2021). Numerous pieces of research exist that outline the transformative potential of AI with regard to increased administrative and industrial efficiency, cost reduction. and revenue generation. For current workers, AI stands to deliver productivity gains

by automating some of the repetitive aspects of labour that can take up time, allowing workers to focus more on strategic objectives. Estimates suggest Al can automate a significant percentage of the activities that make up people's jobs across functions and sectors. In the Americas alone, this translates to a potential gain of over \$3.7 trillion a year to Gross Domestic Product (Acemoglu et al., 2022). Discussions with both employees and robots found a significant time saving, with digitising or automating a process reducing staff time by a factor of up to ten.

There detailed are case studies of firms with reduced labour costs following AI deployment. For instance, one company used an AI system automatically generate the advertising for thousands of stores. What took three months to do manually could now be done in a single afternoon, at a much lower cost (Zysman et al., 2024). But it is recognised that "visionary" or disruptive AI, market leaders in early adopting industries are relative rarities. For firms at later stages, Al's initial economic impact will come through enhanced productivity gains. As AI systems become more sophisticated over time, they will successfully accomplish increasingly complex tasks, but an important entry point for many industries may be

the use of AI systems that can take on basic decision-making tasks that require a level of "judgment and vision" which human entrepreneurs are more likely to make an error or for which human entrepreneurs' own skill sets are particularly poorly suited (Budhwar et al., 2023). Thus, when operating these firms today, what we often see are modest productivity gains for many different types of firms. This is not a detriment to an analysis of AI in the modern global economy but indeed a key scenario - the vast majority of recent advances in automotive AI reside in driverless systems that merit a close, empirical examination. This is especially the case in maximising the utility of ontological interviews as a means of understanding the subtleties of generative Al's societal impacts. For firms at later stages of modernisation, the immediate productivity gains from deploying generative Al systems are be relatively expected to modest.

Table summarises kev statistical data from various to highlight sectors productivity gains and job impacts associated with the integration of generative Al. It shows that industries such as finance, healthcare, creative, and manufacturing have experienced notable increases in productivity, with gains ranging from 8% to 20%. The adoption of AI has led to both job displacement, particularly in manufacturing and small businesses, and job transformation, where existing roles evolve due to AI augmentation. Larger corporations, with better

access to resources, have been more successful in leveraging Al to expand their workforce and increase operational efficiency, whereas small businesses have faced challenges in Al implementation, leading to

workforce reductions in some cases. This analysis offers a clearer picture of Al's varied effects across industries, illustrating the dual narrative of technological advancement driving both opportunity and disruption.

Sector	Productivity Gains (%)	Job Impact	Al Integration Outcome		
Finance (Banking)	14%	Reduction in customer service roles	Al-driven chatbots reduced manpower needs while increasing productivity in customer service		
Healthcare	10-15%	Role transformation	Increased efficiency in diagnostics and care delivery, enabling workers to focus on complex tasks		
Creative Industries	12%	Job transformation, role augmentation	Al tools augmented creative processes, reducing manual labour while enhancing content creation		
Manufacturing	8%	8% Automation Automation production in displacement speed but the need for labour			
Small Businesses	5-10%	Job displacement due to inefficiencies	Struggled with AI adoption due to resource constraints, leading to downsizing in some cases		
Large Corporations	15-20%	Workforce expansion, new roles	Implemented AI effectively, increasing both productivity and workforce		

Table 1

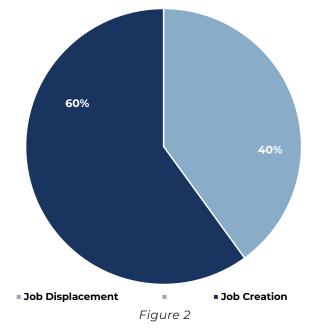
# 3.2. Job Transformation and Employment Shifts

Technological advances change our societies and economies and shape our lives. One of their impacts is felt through the job market. The development of AI and its possible encompassing influence on employment fair attracts а share attention, serving as the basis for speculations and as a topic for empirical research. Some jobs are being transformed or replaced with alternatives. For example, intense capital investment in automation and the deployment of increasingly powerfuldigital tools, combined with advances in AI, are redefining the nature of tasks while failing to significantly reduce the aggregate amount of work required (Tschang et al., 2021). The developments call for shifts of emphasis in terms of skills and perturb the structure of employment. For the people who fill newly available roles, others may have been displaced. Employment is growing in some sectors and roles, whereas it is stagnating or contracting in others. The newly available roles often require advanced skills, skills that are still in short supply. The transformation of roles does not occur everywhere all the time. Each study of employment shifts triggered by AI or advanced automation finds unique sectoral patterns in a variety of jobs. As a result of these shifts, many employees may face physically emotionally challenging transformations. Ensuring a satisfactory match between the displaced workers and the newly available jobs hinges on the availability of investable resources: these must be used

to undertake training and education efforts contributing to the close match of spare human resources with the skills scope called for during the recovery from the shock. Figure 2 highlights Job Creation vs Job Displacement Due to Al Integration: The pie chart illustrates the proportion of organisations experiencing job creation (60%) versus job displacement (40%).

Findings indicate a diverse range of outcomes associated with the integration of Al technologies, particularly in the context of revenue generation workforce dynamics. and Notably, organisations that effectively harnessed have Al, especially in the realm of generative models, have reported significant increases revenue and workforce expansion. These organisations potential illustrate the Al to enhance productivity and facilitate growth, with labour productivity projected to grow annually by 0.1 to 0.6 percent through 2040. Conversely, the analysis also highlights instances where Al-driven efficiencies have led to workforce reductions in certain sectors, emphasising dual narrative of Al's transformative impact on employment. The research further distinguishes between the effects of generative AI on small businesses versus corporations. large Larger organisations tend to have

### Job Creation Vs Job Displacement Due To Ai Integration



better access to resources and expertise, allowing them implement generative to tools more effectively, thereby amplifying positive economic outcomes. In contrast, small businesses may struggle to navigate the complexities of AI adoption. which could exacerbate inequalities in economic performance and workforce stability. The analysis of global policy responses and regulatory frameworks indicates arowina recognition of the need to address the challenges posed by AI technologies. half of todav's activities could potentially be automated between and 2060, policymakers are called to actively engage in the development of strategies that mitigate negative impacts while fostering a supportive environment for innovation (Chui et al., 2023).

Table 2 highlights the Timeline of Projected Work Activity Automation (2030-2060), showing the percentage of work activities projected to be automated, broken down by industry sector:

This timeline illustrates the aradual increase in work activity automation projected from 2030 to 2060 across kev industry sectors. 2030, up to 30-35% of tasks in finance, healthcare, and manufacturing are expected to be automated, with small businesses lagging behind at 10%. As AI adoption accelerates, by 2040, automation could expand to cover nearly half of work activities in most sectors. with large corporations and manufacturing leading way. By 2060, the automation of work activities could reach as high as 90-95% in sectors like manufacturing, finance, and large corporations, while small businesses are expected to automate 70% of tasks due to resource limitations.

### 4. Conclusion

In conclusion, this study has found that generative AI can positively impact workforce dynamics in two keyways. First, by reducing the need for unproductive work, it offers productivity gains. Second, by transforming job roles, the technology has the potential to make workers capable of dealing with higher value-added tasks that productivity deliver aains. Employment landscapes for Al deployment will change following these forms of effect (Brynjolfsson et al., 2023). They require proactive workforce adaptation, taking into account changes in the required skill set. This will ultimately lead to the need for reskilling initiatives in order to keep the workforce prepared for these changes. Negative effects such as layoffs will emerge in the process of job role transformation. Instant dismissals of low-value tasks can lead to temporary layoff effects or a mismatch of skill sets. However, the resulting benefits tend to outweigh the disadvantages in many applications (Lo et al., 2024).

Sectors have been identified in which generative AI is likely to have the strongest impact on unproductive work and needs to unleash productivity gains by opening up the potential to transform

Year	Finance (Banking)	Healthcare	Creative Industries	Manufacturing	Small Businesses	Large Corporations
2030	30%	20%	25%	35%	10%	40%
2040	50%	40%	45%	55%	25%	60%
2050	70%	65%	60%	75%	50%	80%
2060	90%	85%	80%	95%	70%	95%

Table 2

(Brynjolfsson iob roles et al., 2023). Nevertheless, this research opens up several future explorative paths. A first avenue calls for a deeper look into the changing workforce dynamics owing to generative Al deployment. Considering negative externalities of the positive feedback between productivity gains and job transformation is probably a logical next step for future research (Simkute 2024). Possible approaches could include decomposition methods to decouple the employment effects of productivity and work effects or to further validate the output of this paper through further case-specific studies. A second avenue for future research could involve the effects of the productive side of the equation that, although not presented in this paper, argumentation relies our on. In which circumstances, productivity example. for gains do not lead to job role transformation manifesting beneficial effects on workforce dynamics. This could shed further light on the types of work tasks that might be left unaltered by generative AI interventions.

This research highlights the dual impact of generative AI on workforce dynamics, particularly the balance between productivity gains and job transformation. The data reveals that AI

technologies can enhance productivity across sectors, particularly for novice and low-skilled workers, while also triggering significant job shifts and role transformations. However, challenges such as job displacement and unequal access to AI resources between small businesses and large corporations must be addressed.

#### 4.1 Recommendations

To ensure balanced economic growth and mitigate negative impacts, policymakers should:

# Implement targeted reskilling programs:

Encourage investment in continuous learning initiatives to prepare the workforce for Al-enhanced roles, particularly in sectors likely to experience automation.

# Establish regulatory frameworks:

Address ethical concerns, such as bias in AI decision-making, and implement policies that support the equitable deployment of AI technologies across industries.

### **Business leaders should:**

Invest in AI responsibly: While AI presents clear productivity gains, organisations must focus on responsible deployment that balances automation with workforce sustainability.

# Prioritise workforce adaptation:

Develop in-house training programs and provide employees with opportunities to transition into Al-enhanced roles. This could help mitigate the psychological and economic impact of job displacement.

The study calls for a holistic approach where AI adoption aligns with broader societal goals, ensuring that both businesses and workers can benefit from these technological advances.

study's findings will This contribute to the ongoing dialogue about Al's role in addressing productivity challenges, potential its for economic growth, and the necessary strategies for workforce adaptation in an Al-augmented future. By providing a comprehensive, global perspective on Generative Al's impact, this research aims to inform policymakers, business leaders, and educators in preparing for the evolving landscape of work in the 21st century, where generative AI is seen as a true disruptive workforce shift (Deloitte, 2024). Building on the idea of generative AI characterisation proposed in this research, the investigation of congruence or divergence existing workforce adaptation in behaviour across generative

Al types, as well as regional perspectives or repercussions for workforce appeal, could then be addressed in further research. Future studies could explore the long-term career trajectories of workers displaced by Al, tracking their reskilling and reemployment patterns through longitudinal qualitative studies.

#### **4.2 Limitations**

While our qualitative approach provides deep insights, it may not capture the full quantitative impact of AI across all industry sectors. The rapid evolution of AI technologies also means some findings may have limited long-term applicability.

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