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Human Resource Transformation Opportunities Towards a Golden Indonesia 2045

Nurhasanah[1*], Sugeng Karyadi[2], Betty Rahayu[3], Nirmadarningsih Hiya[4], Eka Kurnia Saputra[5]
[1]STIE IBMI Medan, Indonesia
[2]Universitas Lambung Mangkurat, Indonesia
[3]Universitas Darul Ulum, Indonesia
[4]Universitas Pembinaan Masyarakat Indonesia,
[5]STIE Pembangunan Tanjungpinang, Indonesia
Corresponding Author: Nurhasanah : sihotangnurhasanah779@gmail.com

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ABSTRACT
Human resource transformation is the most crucial pillar in realizing the vision of Golden Indonesia 2045, as this momentum coincides with the peak of the demographic bonus, which must be converted into a competitive advantage on a global scale. The purpose of this study is to provide an explanation of human resource transformation opportunities towards a Golden Indonesia 2045. This research is presented using a qualitative and descriptive approach. These qualitative and descriptive approaches are supported by secondary data such as books and journals. The results show that human resource transformation is the first pillar of the Golden Indonesia 2045 vision. With the goal of becoming one of the world's five largest economic powers, Indonesia can no longer rely solely on natural resources but must shift to an innovation and knowledge based economy. These opportunities include leveraging the demographic bonus, digital transformation and the gig economy, industrial downstreaming and the absorption of specialized labor, and reform of the education and vocational systems.

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INTRODUCTION

Human resource economics is a branch of economics that focuses its analysis on optimizing the role of humans as productive assets in the development of a country or organization. This field views humans not simply as labor operating machines, but as human capital possessing unique intellectual capacities and skills that can be developed through sustainable investment (Mariani et al., 2023; Tambunan et al., 2025). Its primary focus includes a deep understanding of labor market mechanisms, from how labor demand and supply are formed to how fair wages are determined based on each individual's productivity and skill level. By studying these variables, economists can map major challenges such as unemployment, income inequality, and the highly dynamic labor mobility of this era of globalization. Investment in human capital is a crucial pillar in discussions of human resource economics because it encompasses long-term aspects of education and health. When an entity allocates funds for training or improving healthcare services, these actions are viewed as expenditures that will yield future returns in the form of higher work efficiency and greater innovation. From this perspective, education is not merely a means of acquiring knowledge, but rather a process of accumulating knowledge that increases an individual's bargaining power with employers. An individual's decision to pursue higher education is analyzed by comparing current costs with projected earnings over their productive lifespan.

Beyond investment, human resource economics also examines public policies and government regulations that impact worker welfare (Pandiangan et al., 2025; Tambunan et al., 2024). This involves examining the impact of minimum wages, social security, and labor protection on work incentives and macroeconomic growth. These discussions often intersect with sociological issues such as workplace discrimination and female labor force participation, which require an inclusive policy approach. Overall, this discipline seeks to create a balance between the industry's need for operational efficiency and workers' rights to a decent living, thus creating a sustainable and competitive economic ecosystem.

Human resource transformation in the digital era is not simply a hardware change or the adoption of the latest software, but rather a profound paradigm shift in how organizations manage human potential (Gultom et al., 2024; Hamzah et al., 2025). This process begins with the reconstruction of a work culture that was previously rigid and hierarchical, becoming more agile and collaborative, so that every individual has room to innovate without restrictive bureaucratic barriers. The integration of artificial intelligence and big data analytics is a key driver in personalizing employee career development, enabling companies to accurately map competency gaps and provide training relevant to future needs (Nursiani, 2020). On the other hand, employee well-being is now viewed as a strategic asset that determines business sustainability, as companies no longer simply demand productivity but also create a work ecosystem that supports mental health and work-life balance.

As geographical boundaries disappear through remote work models, the role of the human resources department is shifting from a mere administrative function to a strategic partner focused on the holistic employee experience. Leadership in this transformational era requires high emotional intelligence to inspire teams amidst the uncertainty of a volatile global market. Investing in digital literacy is essential for any organization seeking to remain competitive, but this must be balanced with strengthening human values such as empathy and creativity, which cannot be replaced by machines. Ultimately, human resource transformation is a continuous journey to align individual ambitions with the company's broader vision, creating synergy that can generate significant added value not only for shareholders but also for society at large (Sisibintari, 2015).

Human resource transformation is the most crucial pillar in realizing the vision of Golden Indonesia 2045, as this momentum coincides with the peak of the demographic bonus, which must be converted into a competitive advantage on a global scale. This enormous opportunity opens up through the integration of digital technology and artificial intelligence into the education system and vocational training, capable of creating a workforce adaptable to future industrial changes. By capitalizing on a population structure dominated by a productive young generation, Indonesia has the potential to make a significant leap from a commodity-based economy to an innovation- and knowledge-based economy. Massive investment in the health sector to ensure prime physical fitness, along with curriculum reforms that prioritize critical thinking and creativity, will be key drivers in producing superior talent. If synergy between government policies, the private sector, and educational institutions is in place, the Indonesian workforce will not simply be spectators in the domestic market but will become key players dominating global supply chains and attracting high-quality foreign investment. The success of this transformation will ultimately create a prosperous, independent society with strong bargaining power on the international stage, while also solidifying Indonesia's position as one of the world's largest economic powers on the eve of its centenary.

The transformation of human resources towards Golden Indonesia 2045 presents significant opportunities rooted in optimizing national intellectual potential and productivity through leveraging technological advances and fundamentally strengthening the nation's character. In an increasingly competitive global context, Indonesia has a rare opportunity to transform its workforce structure from the informal sector to the formal sector, which offers high added value, leveraging digitalization as a key bridge. This opportunity is driven by the availability of a very large productive-age population, which, if equipped with high-level skills such as data analysis, software engineering, and renewable energy management, will be able to drive a green and circular economy. Furthermore, the shift in the educational paradigm from mere memorization to the development of logical thinking and complex problem-

solving skills provides opportunities for local talent to compete in the international labor market, both online and offline.

The integration of academic research with industry needs will create an innovation ecosystem where new discoveries from universities can be directly commercialized by national companies, thereby reducing dependence on imported technology and strengthening economic sovereignty. Equitable improvements in health care quality, even in remote areas, also open up opportunities for the birth of a generation free from physical and cognitive barriers, so that every individual has an equal starting point in pursuing achievement. With political stability and consistent policies for talent development, Indonesia can attract professionals from abroad to return home and establish centers of excellence at home. Ultimately, this series of opportunities will lead to the formation of a strong, high-purchasing middle class, which will not only drive domestic consumption but also produce solutions to global challenges, ensuring that by 2045 Indonesia truly stands as a developed and influential nation on the global stage.

The purpose of this study is to provide an explanation of human resource transformation opportunities towards a Golden Indonesia 2045.

RESEARCH METHOD

This research is presented using a qualitative and descriptive approach. A qualitative approach is a research paradigm that focuses on an in-depth understanding of social or humanitarian phenomena by depicting reality in a complex and comprehensive manner (Kurdhi et al., 2023). In its implementation, qualitative researchers position themselves as key instruments, diving directly into the field to capture the meaning behind participants' actions and statements in their natural context without intervention or variable manipulation. The primary focus of this approach is not to seek statistical generalizations but to explore the essence and quality of interpersonal relationships or specific events. Therefore, the resulting data is highly contextual and subjective while still possessing a strong theoretical foundation. In line with this, descriptive methods within a qualitative framework serve as techniques for systematically and accurately describing situations or events based on facts found in the field (Subagyo et al., 2023). Researchers using descriptive methods attempt to paint a narrative picture of the research subject, relying on written and spoken data to provide rich, detailed explanations. Through this process, all forms of interaction and unique characteristics of the object under study are transparently revealed, allowing readers to understand the situation as if witnessing it firsthand. This combination of qualitative and descriptive approaches allows for inductive analysis, where new theories or understandings emerge from the accumulated field data collected through in-depth observation and detailed interviews.

These qualitative and descriptive approaches are supported by secondary data such as books and journals. This research fundamentally relies on the

strengths of qualitative and descriptive approaches to explore phenomena in depth and comprehensively through analysis that focuses on the quality of information rather than numerical quantity (Mulyana et al., 2024). The use of qualitative methods allows researchers to understand the social context and meaning behind the research subject by narratively analyzing the data, resulting in a complete and comprehensive picture. In this process, a descriptive approach plays a crucial role in describing specific characteristics or situations as they exist without special treatment or manipulation of variables in the field. This entire methodological framework is fully supported by the use of secondary data collected from various authoritative literature, such as scientific textbooks and reputable research journals relevant to the topic.

RESULT AND DISCUSSION

Overview of Golden Indonesia 2045

The vision of a Golden Indonesia 2045 is a grand national aspiration to realize Indonesia as a sovereign, advanced, just, and prosperous nation in time for its centenary celebration of independence. This vision leads to a total transformation, with Indonesia projected to become one of the world's five largest economic powers, with a per capita income equivalent to that of developed countries (Sudarma, 2022). The core of this vision is the development of superior human resources through mastery of advanced science and technology and equitable, inclusive development across the archipelago to eliminate wide disparities between regions. Indonesian society in 2045 is envisioned as productive global citizens with strong character and upholding the nation's cultural values amidst rapid modernization. Beyond economic and social aspects, this vision also emphasizes strengthening national resilience and clean and authoritative governance to maintain political stability and security as the primary foundation of progress. By sustainably optimizing its demographic dividend and natural resources, Indonesia is expected to become a beacon for the Southeast Asian region and a key player on the international stage, actively maintaining world order while simultaneously symbolizing the rise of a modern yet religious eastern nation.

The vision of Golden Indonesia 2045 represents a quantum leap in civilization that demands a comprehensive transformation across all aspects of national life to achieve the status of a globally respected developed nation. The depth of this vision is rooted in strengthening the pillars of human development, which emphasize not only intellectual intelligence through high-quality education but also comprehensive public health and mastery of cutting-edge technological innovation as key drivers of growth. Economically, Indonesia is striving to escape the middle-income trap by massively downstreaming its industry, strengthening its digital economic structure, and building evenly integrated infrastructure from Sabang to Merauke to ensure logistical efficiency and strong connectivity.

Socio-politically, Indonesia's condition in 2045 is envisioned as a country with a poverty rate approaching zero percent and a narrowing economic inequality index, ensuring true social justice for all levels of society. Governance must transform into a fully digital, transparent, and accountable system to create a conducive investment climate and responsive public services. Internationally, Indonesia will no longer simply follow global trends but instead become a strategic leader, determining the direction of economic and security policies in the Indo-Pacific region. Environmental sustainability is also a crucial element in this vision, where economic development aligns with climate change mitigation efforts through the use of renewable energy and the protection of biological resources, which are a legacy for future generations. All of these grand ambitions culminate in the creation of a nation that is politically independent, economically self-sufficient, and culturally distinct, in accordance with the spirit of Pancasila, which remains relevant amidst increasingly dynamic advances.

Human Resource Transformation Opportunities Towards a Golden Indonesia 2045

Human resource transformation is the first pillar of the Golden Indonesia 2045 vision. With the goal of becoming one of the world's five largest economic powers, Indonesia can no longer rely solely on natural resources but must shift to an innovation- and knowledge-based economy. These opportunities include:

1.Leveraging the Demographic Bonus

Indonesia is currently experiencing a demographic bonus period, where the productive-age population (15-64) accounts for approximately 70% of the total population.

a.Opportunities

If properly managed through skills training, this group will become a driving force for domestic consumption and national productivity (Nursiani, 2020).

b.Targets

A low dependency ratio allows the government and families to allocate more resources to education and health investments rather than to dependents.

2.Digital Transformation and the Gig Economy

The Industrial Revolution 4.0 is opening up new, geographically unconstrained job opportunities.

a.Opportunities

The emergence of future jobs in artificial intelligence, data analytics, and the green economy. Indonesia has a rapidly growing digital market, providing

opportunities for local human resources to compete globally through remote work schemes (Sisibintari, 2015).

b.Government Digitalization

The GovTech and Satu Data Indonesia projects aim to create an efficient bureaucracy, requiring a technologically savvy civil servant.

3.Industrial Downstreaming and the Absorption of Specialized Labor

The downstreaming policy, or domestic processing of raw materials, requires technical expertise on a large scale.

a.Opportunities

Transformation from manual laborers to certified technical workers. Sectors such as the electric vehicle battery industry and renewable energy offer opportunities for vocational graduates to occupy strategic positions in the global supply chain (Handayani et al., 2025).

4.Reform of the Education and Vocational Systems

The government, through Bappenas and the Ministry of Education, Culture, Research, and Technology, is developing a more adaptive education roadmap.

a.Opportunities

Linking and matching the educational curriculum with industry needs. The integration of character education and soft skills such as leadership and independence is expected to produce individuals who are not only academically intelligent but also resilient and innovative.

CONCLUSION

The results show that human resource transformation is the first pillar of the Golden Indonesia 2045 vision. With the goal of becoming one of the world's five largest economic powers, Indonesia can no longer rely solely on natural resources but must shift to an innovation and knowledge based economy. These opportunities include leveraging the demographic bonus, digital transformation and the gig economy, industrial downstreaming and the absorption of specialized labor, and reform of the education and vocational systems.

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