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Public-Private Collaboration Models for Enhancing Workforce Inclusion Programs: A Conceptual Approach

Daphine Nyangoma ^{1*}, Ejuma Martha Adaga ², Ngodoo Joy Sam-Bulya ³, Godwin Ozoemenam Achumie ⁴

¹ Independent Researcher, USA

² Independent Researcher, Lagos, Nigeria

³ Independent Researcher, Abuja, Nigeria

⁴ Osmotic Engineering Group, Lagos, Nigeria

* Corresponding Author: Daphine Nyangoma

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Abstract

Workforce inclusion programs are critical in addressing employment disparities and fostering economic participation among underrepresented groups. Public-private collaboration offers a strategic approach to enhancing these programs by leveraging the combined resources, expertise, and influence of government agencies, private sector entities, and nonprofit organizations. This paper explores various models of public-private collaboration in workforce inclusion, emphasizing the importance of policy alignment, funding mechanisms, and multi-stakeholder engagement in achieving sustainable outcomes. The theoretical foundation is built upon Institutional, Stakeholder, and Social Partnership Theory, providing a conceptual lens for understanding effective collaboration. The study proposes a structured framework for designing and implementing workforce inclusion programs that integrate government-led initiatives, private sector engagement strategies, and data-driven decision-making. Legal and ethical considerations, as well as regulatory compliance, are examined to ensure responsible collaboration. Additionally, the paper evaluates key performance metrics such as employment rates, economic mobility, and workforce diversity to assess the impact and sustainability of inclusion initiatives. Challenges, including policy misalignment, organizational resistance, and funding constraints, are identified, along with strategies for overcoming these barriers. Policy recommendations highlight the need for sustainable funding models, regulatory incentives, technology-driven workforce solutions, and continuous program evaluation. By strengthening public-private collaboration, workforce inclusion programs can drive social equity, enhance economic growth, and create long-term opportunities for historically marginalized communities. This paper contributes to the discourse on inclusive workforce development by providing a conceptual approach that supports evidence-based policymaking and scalable workforce solutions.

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1. Introduction

1.1 Background on workforce inclusion

Workforce inclusion is critical to economic development and social equity, ensuring that individuals from diverse backgrounds have access to employment opportunities, skills training, and career advancement. Governments have primarily led traditional workforce inclusion efforts through policy frameworks, subsidies, and training programs aimed at marginalized groups, such as people with disabilities, immigrants, low-income workers, and individuals with limited formal education. However, these efforts have often been constrained by bureaucratic inefficiencies, funding limitations, and a disconnect between workforce skills and labor market demands (Abisoye *et al.*; A. I. Afolabi, Chukwurah, & Abieba).

Public-private collaboration has emerged as a strategic solution to enhance workforce inclusion, leveraging the strengths of both sectors to create more efficient and impactful programs. The public sector provides regulatory oversight, funding, and infrastructure, while the private sector offers industry expertise, technology, and employment opportunities (Ahmadu *et al.*). This collaborative approach fosters innovation, aligns training programs with labor market needs, and ensures sustainable employment pathways. Successful examples of such partnerships include employer-sponsored apprenticeship programs, public-private funding mechanisms for vocational training, and corporate initiatives aimed at hiring underrepresented groups. As global labor markets evolve with technological advancements and shifting economic demands, effective collaboration models become increasingly necessary to bridge skill gaps and promote inclusive growth (J. O. Basiru, C. L. Ejiofor, E. C. Onukwulu, & R. U. Attah, 2023b).

1.2 The need for innovative collaboration models in workforce development

Despite the benefits of public-private collaboration in workforce development, traditional models often face structural limitations that hinder their scalability and effectiveness. Many existing partnerships are transactional rather than transformational, focusing on short-term objectives rather than systemic change. For example, corporate-sponsored training initiatives may provide short-term skill-building opportunities but lack long-term employment commitments, while government-led programs may struggle with agility in responding to emerging industry trends (Babatunde, Okeleke, & Ijomah).

Innovative collaboration models are needed to address these gaps by integrating data-driven decision-making, adaptive policy frameworks, and sustainable funding mechanisms. Digital transformation plays a crucial role in modern workforce inclusion programs, enabling real-time labor market analysis, personalized skills training through e-learning platforms, and predictive analytics for workforce planning. Additionally, cross-sectoral partnerships that engage educational institutions, non-governmental organizations, and community groups can create more holistic workforce development ecosystems (Ejike & Abbulimen).

Moreover, ensuring inclusivity in workforce development requires moving beyond generic employment programs to targeted interventions that consider the unique needs of different workforce segments. For instance, individuals with disabilities may require accessible training environments and specialized career support, while low-income workers may benefit from wraparound services such as childcare and transportation assistance. By adopting flexible and innovative collaboration models, workforce inclusion programs can become more responsive, equitable, and impactful (J. O. Basiru, C. L. Ejiofor, E. C. Onukwulu, & R. U. Attah, 2023c; J. O. Basiru, L. Ejiofor, C. Onukwulu, & R. U. Attah, 2023).

1.3 Research objectives and scope

This paper aims to explore public-private collaboration models that enhance workforce inclusion by identifying best practices, challenges, and strategies for sustainable implementation. The research will examine how

collaborative models can be designed to address workforce skill gaps, promote long-term employment stability, and ensure equitable access to career opportunities. It will also analyze the role of technological advancements, policy frameworks, and multi-stakeholder partnerships in strengthening workforce development initiatives.

The scope of this study includes an in-depth analysis of key collaboration mechanisms such as co-funded workforce training programs, industry-led apprenticeships, government-supported employment incentives, and technology-driven workforce inclusion initiatives. It will also assess the effectiveness of different models by evaluating case studies from various regions and industries. The paper will further explore the challenges that hinder effective collaboration, including regulatory constraints, misalignment of objectives between public and private stakeholders, and resource limitations.

Ultimately, this research seeks to contribute to the discourse on workforce inclusion by providing actionable policy recommendations for enhancing collaboration models. By examining evidence-based strategies, the study aims to inform policymakers, business leaders, and workforce development practitioners on how to build more effective and inclusive labor markets.

2. Theoretical and conceptual foundations

2.1 Defining public-private collaboration in workforce inclusion

Public-private collaboration in workforce inclusion refers to the strategic partnership between government agencies, private sector organizations, and other stakeholders to create sustainable employment opportunities for underrepresented groups. This collaborative approach ensures that workforce development initiatives are responsive to market demands while also addressing social and economic disparities (Olanrewaju Awoyemi, Attah, Basiru, Leghemo, & Onwuzulike, 2023; J. O. Basiru, C. L. Ejiofor, E. C. Onukwulu, & R. Attah, 2023).

Unlike traditional government-led workforce programs, which often focus on compliance and large-scale funding mechanisms, public-private collaboration leverages the expertise and resources of multiple stakeholders to achieve more targeted and efficient outcomes. The public sector typically provides regulatory oversight, funding support, and policy guidance, while the private sector contributes industry insights, training opportunities, and employment placements. Additionally, non-governmental organizations (NGOs), educational institutions, and community-based organizations play an essential role in ensuring program accessibility and inclusivity (J. O. Basiru, C. L. Ejiofor, E. C. Onukwulu, & R. U. Attah, 2023a; Ezeanochie, Afolabi, & Akinsooto).

Successful workforce inclusion collaborations involve more than just funding partnerships; they require shared governance structures, joint decision-making processes, and a long-term sustainability commitment. These partnerships can take various forms, including co-designed training programs, employer-driven apprenticeship models, and multi-stakeholder initiatives that address systemic barriers to employment. By aligning workforce programs with economic and social needs, public-private collaboration fosters inclusive labor markets and promotes equitable access to opportunities (Ige, Chukwurah, Idemudia, & Adebayo).

2.2 Theoretical Frameworks

Public-private collaboration in workforce inclusion is underpinned by several theoretical frameworks that explain the dynamics of multi-stakeholder partnerships. Institutional theory provides insights into how organizations, including government agencies and businesses, operate within regulatory and normative structures. It highlights the role of institutional pressures in shaping workforce inclusion policies, such as legal mandates for diversity hiring and corporate social responsibility (CSR) initiatives that promote inclusive hiring practices (E. Jessa, 2017).

Stakeholder theory expands on institutional perspectives by emphasizing the importance of balancing the interests of different actors in workforce development. In a public-private collaboration model, stakeholders include governments, employers, workers, advocacy groups, and community organizations, all of whom have varying expectations and contributions. Effective collaboration requires alignment among these groups, ensuring workforce inclusion programs serve economic and social objectives (Ezeanochie *et al.*; Oladosu, Ike, Adeyemo, & Adepoju).

Social partnership theory further refines this understanding by highlighting the cooperative relationships between different sectors in addressing labor market challenges. It suggests that long-term, sustainable workforce development is possible when public and private entities engage in continuous dialogue, knowledge sharing, and joint decision-making (EZEANOCHIE, AFOLABI, & AKINSOOTO, 2021). This theory supports the idea that collaborative workforce programs should not be one-time interventions but rather ongoing partnerships that evolve based on labor market needs. By integrating these theoretical perspectives, workforce inclusion initiatives can be better structured to achieve sustainable outcomes, ensuring that policies and practices reflect both economic realities and social justice principles (S. O. Afolabi & Akinsoto, 2021; Elumilade, Ogundeji, Achumie, Omokhoa, & Omowole, 2021).

2.3 Key Components

Effective public-private collaboration models in workforce inclusion require three core components: policy alignment, sustainable funding mechanisms, and well-structured program implementation.

Policy alignment is crucial in ensuring that workforce inclusion initiatives meet national labor laws, industry regulations, and social equity goals. Government policies must be designed to support collaboration by offering incentives such as tax credits for inclusive hiring, funding for vocational training, and regulatory flexibility for innovative workforce models. At the same time, private sector organizations must align their workforce strategies with public policy objectives to create a mutually beneficial employment ecosystem (Hassan, Collins, Babatunde, Alabi, & Mustapha, 2021; Paul, Abbey, Onukwulu, Agho, & Louis, 2021).

Funding mechanisms play a significant role in sustaining workforce inclusion programs. Traditional government funding is often insufficient to address the full scope of workforce challenges, making private sector investment essential. Public-private partnerships (PPPs) can take various financial forms, such as co-investment models where government and businesses share the costs of training programs, employer-sponsored upskilling initiatives, and impact investing in workforce development. Additionally,

philanthropic contributions from foundations and social enterprises can further support these initiatives, ensuring long-term program sustainability (Udeh *et al.*, 2021).

Program implementation involves the practical execution of workforce inclusion strategies, including curriculum design, participant selection, training delivery, and job placement. Effective implementation requires coordination among all stakeholders, leveraging the expertise of industry leaders, training institutions, and policymakers. Digital technology also plays a critical role in modern workforce development, enabling data-driven decision-making, tracking participant progress, and ensuring that training programs remain relevant to evolving labor market demands (Basiru, Ejiofor, Onukwulu, & Attah, 2022; Elumilade, Ogundeji, Achumie, Omokhoa, & Omowole, 2022).

3. Designing effective public-private collaboration models

3.1 Government-led initiatives and private sector engagement strategies

Government-led initiatives play a crucial role in fostering public-private collaboration for workforce inclusion. These initiatives typically involve policy frameworks, funding incentives, and regulatory mechanisms encouraging private sector workforce development participation. Governments often introduce tax incentives, wage subsidies, and grant programs to support businesses in hiring and training individuals from underrepresented groups. In addition, national and local labor department's design policies that facilitate skill development, apprenticeships, and vocational training programs in partnership with industries facing talent shortages (Mustapha & Ibitoye, 2022; Oladosu *et al.*, 2022). Private sector engagement strategies are essential for ensuring that workforce inclusion programs align with labor market needs. Companies can participate in government-led initiatives by providing on-the-job training, offering mentorship programs, and establishing inclusive recruitment policies. Employers can also engage in industry consortiums that collaborate with governments to develop workforce policies and training curricula that address sector-specific skill gaps. Additionally, corporate social responsibility (CSR) programs serve as a mechanism for businesses to contribute to workforce inclusion beyond their direct employment needs, investing in community-based initiatives that enhance skills development and economic mobility (Onukwulu, Fiemotongha, Igwe, & Ewim, 2022).

A successful public-private collaboration requires continuous dialogue between government agencies and businesses to ensure that policies remain relevant to changing workforce dynamics. By aligning public policy goals with business interests, collaboration models can foster sustainable workforce inclusion, benefiting both employers and job seekers (Otokiti, Igwe, Ewim, Ibeh, & Sikhakhane-Nwokediegwu, 2022).

3.2 Multi-stakeholder partnerships

Beyond government and private sector partnerships, a comprehensive workforce inclusion model requires the active participation of non-governmental organizations (NGOs), educational institutions, and employers. These multi-stakeholder partnerships ensure that workforce programs are holistic, addressing not just employment placement but also education, training, and social support services (Adewale, Olorunyomi, & Odonkor, 2023).

NGOs play a crucial role in workforce inclusion by

advocating for marginalized job seekers, providing career counseling, and delivering specialized training programs. Many organizations focus on assisting refugees, individuals with disabilities, and economically disadvantaged populations in accessing employment opportunities. Additionally, NGOs often act as intermediaries, connecting job seekers with businesses and government programs (Abbey, Olaleye, Mokogwu, & Queen, 2023a; Adefila, Ajayi, Toromade, & Sam-Bulya, 2023).

Educational institutions, including vocational schools, community colleges, and universities, contribute by designing curricula that align with labor market needs. Collaborative programs, such as employer-sponsored apprenticeships and industry-academic partnerships, ensure that graduates possess the skills required for the modern workforce. Institutions also play a role in lifelong learning initiatives, enabling workers to reskill and adapt to evolving industries (Anyanwu, Dawodu, Omotosho, Akindote, & Ewuga, 2023).

Employers, as key stakeholders, are responsible for implementing inclusive hiring practices, creating diverse workplace environments, and fostering career advancement opportunities for underrepresented groups. Through collaboration with NGOs and educational institutions, businesses can access a pipeline of qualified workers while contributing to broader workforce development goals. Multi-stakeholder partnerships create a robust support system that ensures the long-term success of workforce inclusion programs (Abbey, Olaleye, Mokogwu, & Queen, 2023b).

3.3 Data-driven decision-making for workforce development

A data-driven approach is essential for designing, implementing, and evaluating workforce inclusion programs. By leveraging data analytics, policymakers and businesses can make informed decisions about workforce trends, skills gaps, and program effectiveness (Olanrewaju Awoyemi *et al.*, 2023). Governments and businesses collect workforce data through labor market surveys, employer feedback, and training program assessments. This data is used to identify disparities in employment rates, track the progress of inclusion initiatives, and develop targeted interventions. For example, predictive analytics can help policymakers anticipate future labor market demands, allowing them to adjust workforce development programs accordingly.

Data-driven decision-making also enhances program accountability. Performance metrics, such as job placement rates, wage growth, and employee retention, provide insights into the success of workforce initiatives. Businesses can use human resource analytics to assess diversity hiring outcomes and ensure that workforce inclusion goals are being met (O Awoyemi, Attah, Basiru, & Leghemo, 2023).

Additionally, digital platforms facilitate collaboration by centralizing workforce data and streamlining communication between stakeholders. Governments can establish workforce databases that connect job seekers, training providers, and employers, ensuring that individuals receive personalized career support based on real-time labor market insights. A strong data-driven approach strengthens public-private collaboration models by improving transparency, efficiency, and overall impact (Daramola, Apeh, Basiru, Onukwulu, & Paul, 2023).

3.4 Legal, regulatory, and ethical considerations in collaboration

Public-private workforce inclusion initiatives must navigate a complex legal and regulatory landscape to ensure compliance with labor laws, anti-discrimination policies, and data protection regulations. Governments play a critical role in establishing legal frameworks that protect workers' rights while enabling businesses to operate within ethical guidelines.

Labor laws define fair employment practices, including equal pay, non-discrimination policies, and workplace safety regulations. Public-private partnerships must align with these legal standards to ensure that workforce inclusion programs uphold social justice principles. Additionally, immigration laws and work authorization policies influence the extent to which certain populations, such as refugees or international workers, can participate in workforce initiatives (Fiemotongha, Igwe, Ewim, & Onukwulu, 2023a).

Regulatory frameworks also dictate how workforce inclusion programs are funded and monitored. Government oversight ensures that public funds allocated for workforce development are used effectively and equitably. Businesses participating in public-private collaborations must comply with financial reporting requirements and demonstrate the impact of their workforce programs.

Ethical considerations are equally important in workforce inclusion efforts. Employers must implement inclusive recruitment practices that prioritize skills and potential rather than personal biases. Additionally, privacy concerns must be addressed when collecting and analyzing workforce data. Transparency in decision-making and equitable treatment of all participants are key ethical principles that public-private collaboration models should uphold (Hassan, Collins, Babatunde, Alabi, & Mustapha, 2023).

4. Evaluating the impact and sustainability of workforce inclusion programs

4.1 Metrics for assessing workforce inclusion and economic mobility

Assessing the effectiveness of workforce inclusion programs requires the use of well-defined metrics that measure both individual and systemic progress. Key performance indicators (KPIs) are essential in determining the extent to which these programs contribute to employment accessibility, job retention, and overall economic mobility.

One of the primary metrics for workforce inclusion is the employment rate among targeted populations. Tracking job placements, industry-specific hiring trends, and time-to-employment ratios provides valuable insights into whether inclusion programs are effectively connecting marginalized groups to sustainable job opportunities. In addition, wage growth and career progression serve as critical indicators of economic mobility. Longitudinal tracking of earnings before and after program participation helps evaluate whether workforce initiatives are facilitating upward economic movement (Fiemotongha, Igwe, Ewim, & Onukwulu, 2023b).

Another key area of assessment is job retention rates, which measure how long individuals remain employed after placement. High retention rates often indicate that workforce inclusion programs are successfully matching job seekers

with appropriate employment opportunities and that businesses are fostering inclusive workplace cultures. Furthermore, workforce satisfaction surveys and employer feedback provide qualitative data on the effectiveness of training, job matching, and workplace support.

To ensure long-term program impact, broader labor market trends should also be considered. Analyzing the overall participation of underrepresented groups in specific industries, leadership roles, and entrepreneurship can provide a macro-level understanding of workforce inclusion success. By implementing a combination of quantitative and qualitative metrics, policymakers and stakeholders can continuously refine workforce programs to achieve meaningful and sustainable economic outcomes (E. K. Jessa, 2023; Myllynen, Kamau, Mustapha, Babatunde, & Adeleye, 2023).

4.2 Barriers to effective collaboration

Despite the benefits of public-private collaboration in workforce inclusion, several barriers hinder the effectiveness and scalability of these initiatives. These challenges can be broadly categorized into policy constraints, organizational misalignment, and funding limitations.

Policy challenges often arise when government regulations do not adequately support workforce inclusion efforts. In some cases, restrictive labor laws, outdated job classification systems, or immigration policies limit access to employment for specific groups. Additionally, fragmented policymaking across different government agencies can create inconsistencies, making it difficult for businesses and organizations to navigate compliance requirements (Ogundeji, Omowole, Adaga, & Sam-Bulya, 2023).

Organizational barriers stem from differing priorities and operational models between public, private, and nonprofit stakeholders. Government agencies may prioritize long-term policy objectives, while businesses focus on short-term profitability and immediate workforce needs. Nonprofits, on the other hand, may advocate for social justice outcomes that do not always align with corporate efficiency goals. These divergent perspectives can lead to miscommunication, lack of coordination, and inefficiencies in program execution.

Funding remains one of the most significant obstacles to sustaining workforce inclusion initiatives. Many programs rely on government grants, philanthropic donations, or corporate sponsorships, which are often subject to economic fluctuations and policy changes. The lack of stable, long-term funding can limit the ability of programs to scale, invest in innovation, or expand outreach efforts. Additionally, measuring the return on investment for workforce inclusion programs is complex, making it difficult to attract sustained private-sector investment (Onukwulu, Fiemotongha, Igwe, & Ewim, 2023). Overcoming these barriers requires a commitment to policy reform, stronger inter-organizational partnerships, and innovative funding mechanisms that ensure financial sustainability. Addressing these challenges is essential for fostering inclusive workforce development models that are resilient and adaptable to evolving labor market demands.

4.3 Strategies for long-term sustainability and scalability

To ensure the sustainability and scalability of workforce inclusion programs, stakeholders must implement strategies that promote long-term impact, adaptability, and continuous improvement. One of the most effective approaches is

embedding workforce inclusion within national and corporate strategies. Governments can integrate workforce inclusion objectives into broader economic and labor market policies, while businesses can incorporate diversity, equity, and inclusion (DEI) principles into their core human resource and corporate social responsibility (CSR) strategies.

Developing diversified funding streams is another crucial strategy. Instead of relying solely on government grants or philanthropic donations, workforce inclusion programs can explore blended financing models that involve corporate investments, social impact bonds, and public-private co-funding mechanisms. This diversified funding approach ensures financial stability while enabling scalability.

The use of technology and data analytics can also enhance sustainability. Digital workforce platforms, AI-driven job-matching systems, and predictive labor market analytics enable programs to operate efficiently at scale. By leveraging technology, workforce initiatives can expand their reach, streamline operations, and provide personalized career support to job seekers. Moreover, fostering cross-sector partnerships enhances sustainability. Establishing long-term collaboration frameworks between governments, businesses, NGOs, and educational institutions ensures that workforce inclusion programs remain relevant, adaptable, and well-supported. Regular evaluations, knowledge-sharing networks, and policy dialogues further contribute to program longevity.

5. Conclusion and policy recommendations

Public-private collaboration is essential for advancing workforce inclusion programs, as it allows for the integration of government policies, private sector expertise, and nonprofit support. This study highlights that successful collaboration models rely on policy alignment, strategic funding mechanisms, and well-structured program implementation. Additionally, multi-stakeholder partnerships involving educational institutions, businesses, and civil society organizations significantly enhance workforce inclusion efforts by expanding access to training, employment opportunities, and career advancement pathways.

One of the key findings is that data-driven decision-making is a critical component in workforce inclusion strategies. Organizations can optimize program outcomes and better align workforce development initiatives with industry demands by leveraging workforce analytics, employment trends, and real-time labor market insights. However, several challenges persist, including policy misalignment, limited funding, and resistance to inclusive workforce strategies within some organizations. Overcoming these barriers requires coordinated efforts among stakeholders to create adaptable, evidence-based workforce programs that prioritize long-term sustainability.

The sustainability of workforce inclusion programs depends on innovative financing strategies, the adoption of digital workforce solutions, and a strong commitment to diversity, equity, and inclusion. Governments and businesses must view workforce inclusion as an integral component of broader economic and social development, ensuring that inclusive hiring and career advancement initiatives are embedded within corporate and public policy frameworks. A well-designed public-private collaboration model ultimately contributes to economic resilience, social mobility, and equitable workforce participation.

Several key policy recommendations should be considered to strengthen workforce inclusion programs through public-private collaboration. First, governments must establish clear and enforceable regulatory frameworks that promote inclusive hiring and workforce development. This includes introducing tax incentives for businesses implementing diversity-focused hiring practices and ensuring compliance with labor laws protecting marginalized and underrepresented groups. Public-private workforce councils should also be established to enhance collaboration and facilitate knowledge sharing between government agencies, businesses, and nonprofit organizations.

Second, workforce inclusion initiatives should adopt data-driven approaches to decision-making. By utilizing artificial intelligence, labor market analytics, and real-time employment data, policymakers and employers can design more effective workforce development programs. National workforce databases should be developed to track employment trends and assess program effectiveness, allowing for continuous policy adjustments to improve workforce participation rates.

Another crucial recommendation is the need for sustainable funding models. Many workforce inclusion programs fail due to short-term financial constraints. Governments and the private sector should explore blended financing options, such as impact bonds, co-investment strategies, and social enterprise funding, to ensure that these programs remain financially viable and scalable. Long-term investments in skills development and workforce training must also be prioritized to align labor market needs with future economic trends.

Inclusive leadership and workplace diversity must be embedded into organizational strategies. Employers should implement bias-free recruitment processes, equitable career advancement opportunities, and accountability mechanisms to measure diversity and inclusion progress. Additionally, businesses should integrate technology-driven workforce solutions, such as AI-powered job placement platforms and digital credential verification systems, to improve hiring efficiency and workforce accessibility.

Finally, workforce inclusion programs must undergo continuous evaluation to measure their impact and effectiveness. Key performance indicators, such as employment retention rates, wage growth, and career progression metrics, should be used to assess program success. Regular feedback from employers and workers should also inform program adjustments, ensuring that workforce development strategies remain relevant and responsive to evolving economic needs. These recommendations can make public-private workforce inclusion initiatives more effective, sustainable, and impactful. Strengthening stakeholder collaboration, leveraging data-driven insights, and ensuring long-term financial commitment will contribute to a more inclusive and resilient labor market fostering economic growth and social equity.

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