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Impact of High-Skill Immigration Fast-Tracks on National Innovation Output in Rwanda



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Impact of High-Skill Immigration Fast-Tracks on National Innovation Output in Rwanda



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Abstract

Purpose: The purpose of this article was to analyze impact of high-skill immigration fast-tracks on national innovation output in Rwanda.

Methodology: This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

Findings: Rwanda's high-skill immigration fast-tracks have successfully boosted national innovation by rapidly injecting foreign expertise into its tech and finance sectors, accelerating startup growth and digital services. This strategy has effectively addressed critical skill shortages and enhanced the country's reputation as an innovation hub. However, the impact remains concentrated, with the long-term success dependent on deepening knowledge transfer to the local workforce to build a self-sustaining domestic innovation ecosystem.

Unique Contribution to Theory, Practice and Policy: Knowledge spillovers theory, national innovation systems (NIS) framework & network theory may be used to anchor future studies on the impact of high-skill immigration fast-tracks on national innovation output in Rwanda. For practical evaluation, it is recommended that immigration and science agencies implement longitudinal talent cohort tracking. At the policy level, governments should mandate comparative policy experimentation and evaluation." This involves deliberately designing variations in fasttrack programs (e.g., different visa conditions for entrepreneurs versus researchers) and rigorously evaluating their comparative impact.

Keywords: High-Skill Immigration Fast-Tracks, National Innovation Output

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INTRODUCTION

National innovation output is a multi-dimensional metric that captures a country's capacity to generate and commercialize new knowledge and technologies. It is commonly measured by indicators such as the number of patents filed by residents, which reflects inventive activity; high-tech exports as a percentage of total exports, indicating the ability to compete in knowledge-intensive global markets; and research and development (R&D) expenditure as a percentage of GDP, which shows the financial commitment to innovation. For instance, the United States consistently demonstrates high innovation output, with R&D expenditure hovering around 3.1% of GDP and maintaining a dominant position in patent filings for sectors like biotechnology and software. Similarly, Japan, a long-standing leader, showcases its strength through high-tech exports often constituting over 20% of its total goods exports, driven by its automotive and electronics industries. The sustained high investment in R&D by these nations is a key driver of their economic competitiveness and technological leadership on the global stage (Furman, 2020).

In developing economies, national innovation output is often characterized by rapid growth from a lower base, with a focus on adapting existing technologies and improving process efficiency. Countries like China and India have seen dramatic increases in resident patent filings, a trend supported by government policies aimed at transforming their economies from manufacturing hubs to innovation powerhouses. For example, China's R&D expenditure as a percentage of GDP has surged past 2.4%, approaching levels common in the OECD, which has directly contributed to its rise as the world's top filer of patents. Meanwhile, Vietnam has emerged as a notable player, significantly increasing its high-tech exports, which now comprise a substantial portion of its total exports, largely due to foreign direct investment in electronics manufacturing. This growth trajectory highlights their strategic shift towards building more resilient, knowledge-based economies (Lee, 2019).

Sub-Saharan African economies generally exhibit low levels of national innovation output, constrained by limited funding, infrastructure, and human capital. R&D expenditure across most countries in the region remains far below the global average, often at less than 0.5% of GDP, which severely restricts systematic research activities. Consequently, the number of patents filed by residents is minimal, reflecting the challenges in creating and protecting novel inventions. South Africa is a regional outlier, with comparatively higher R&D intensity and a more diversified innovation profile, though it still lags behind developed and major developing nations. For most other Sub-Saharan nations, high-tech exports are negligible, with economies remaining dependent on the export of raw materials and primary commodities, underscoring the critical need for targeted investment in science, technology, and education to foster future innovation-led growth (Mugo & Kibera, 2019).

The implementation of a high-skill immigration fast-track policy can be conceptualized along a spectrum of selectivity and integration support, which directly influences its impact on national innovation output. These policies are measured by the stringency of their eligibility criteria such as salary thresholds, educational qualifications, and field-of-study requirements and the resulting annual inflow of qualified migrants. We can identify four archetypal models: a Restrictive Point-Based System (highly selective criteria focusing on a few strategic sectors, leading to a low but elite inflow), a Broad Occupational Shortage Model (moderate criteria targeting a wider list of indemand professions, resulting in a steady, substantial inflow), an Entrepreneurial & Startup Visa

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(criteria based on venture capital funding or business innovation, attracting a small but highly impactful cohort of job creators), and a Comprehensive Talent Attraction Scheme (liberal criteria coupled with integration pathways like fast-tracked citizenship, designed to generate a large, diverse inflow). The linkage to innovation is that these migrants augment the domestic human capital stock, directly contributing to R&D teams, starting patent-generating companies, and enhancing the complexity of exports (Furman, 2020).

The effect of these policy models on national innovation output escalates with their ambition and scale. A Restrictive Point-Based System may yield a marginal positive effect, slightly boosting patent filings in niche technological areas without significantly altering broader macroeconomic indicators like R&D expenditure as a percentage of GDP. In contrast, a Broad Occupational Shortage Model has a more pronounced impact, as a consistent influx of qualified STEM professionals strengthens the research workforce, directly contributing to the number of resident patent filings and supporting the growth of high-tech export sectors. The Entrepreneurial & Startup Visa, while small in scale, can have an outsized impact by creating new, high-growth companies that are inherently innovative, thus rapidly increasing patenting activity and commercializing new technologies. Finally, a Comprehensive Talent Attraction Scheme has the potential to fundamentally transform a nation's innovative capacity by creating a large, permanent, and diverse talent pool that drives up all metrics R&D intensity, patenting rates, and high-tech export share establishing a sustainable cycle of innovation-led growth (Kerr & Kerr, 2022).

Problem Statement

In an increasingly competitive global knowledge economy, national innovation output measured through patents, high-tech exports, and R&D intensity is a critical determinant of long-term economic growth and prosperity. Many developed and emerging economies are responding to perceived skills shortages by implementing high-skill immigration fast-track policies, such as the EU Blue Card or national startup visas, designed to attract a global elite of scientists, engineers, and entrepreneurs. However, a significant problem exists: the causal link between the specific design features of these programs and their ultimate impact on national innovation metrics remains inadequately understood and empirically contested (Czaika & Toma, 2020). Policymakers are thus operating with incomplete information, potentially investing in programs that may not yield the desired innovative returns or that could have unintended consequences for the domestic labor market.

The core of the problem lies in the complex interplay between policy design and innovation ecosystems. While some studies suggest that high-skill immigrants make disproportionate contributions to patenting and firm creation, it is unclear whether this is directly attributable to fast-track programs or to broader, self-selecting migration flows (Kerr & Kerr, 2022). Furthermore, the impact may vary significantly based on a program's eligibility criteria, its integration support mechanisms, and the absorptive capacity of the host country's domestic R&D infrastructure. Without a rigorous evaluation that disaggregates the effects of different policy models, governments risk implementing suboptimal strategies that either fail to attract sufficient talent or attract talent that is not effectively integrated into the national innovation system. This knowledge gap hinders the ability of nations to strategically design immigration policy as a precise tool for enhancing their technological competitiveness and sustainable economic development.

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Theoretical Review

Knowledge Spillovers Theory

Rooted in endogenous growth theory (Romer, 1990), this concept posits that knowledge diffusion from skilled individuals boosts the productivity of others. The main theme is that ideas are non-rivalrous, and proximity to highly skilled people creates positive externalities. Its relevance is direct: high-skill immigrants are potent carriers of tacit knowledge and new techniques, and fast-track policies concentrate this talent, accelerating knowledge spillovers to domestic researchers and thereby increasing national patenting and innovation rates (Kerr & Kerr, 2022).

National Innovation Systems (NIS) Framework

Pioneered by Freeman (1987) and Lundvall (1992), the NIS framework argues that innovation stems from complex interactions between firms, universities, and government institutions. The core theme is that the structure and strength of these linkages determine innovative performance. This theory is crucial for evaluating how high-skill immigration fast-tracks integrate newcomers into the host country's NIS. It shifts the focus from merely counting migrants to assessing how effectively they connect with domestic R&D labs, universities, and innovation clusters to enhance systemic output (Doshi & Ziegler, 2021).

Network Theory

Originating in sociology, network theory examines how social structures create opportunities and constraints. Its main theme is that individuals are embedded in webs of social relationships that facilitate access to information and resources. The theory is highly relevant as high-skill immigrants often arrive with pre-existing global networks, providing the host country with unique "bridging social capital." Fast-track policies can be analyzed for their ability to leverage these transnational networks, fostering international collaboration and providing access to diverse knowledge pools that fuel breakthrough innovations (Czaika & Toma, 2020).

Empirical Review

Kerr and Lincoln (2023) estimated of how changes in the United States' H-1B visa program for high-skill workers directly influence the nation's innovation output. The research was motivated by ongoing policy debates about whether restricting skilled immigration would protect domestic jobs or, conversely, harm the country's technological edge. The researchers employed a robust difference-in-differences methodology, leveraging the annual cap fluctuations on H-1B visas as a natural experiment. They analyzed comprehensive data from the US Patent and Trademark Office (USPTO), tracking patent filings at the firm level over more than a decade. Their central finding was that firms highly dependent on H-1B visas experienced a statistically significant and substantial decline in patent applications following years with restrictive visa caps. This negative effect was particularly pronounced in technology sectors like computer science and electrical engineering. The study also found evidence of a "crowding-in" effect, where immigrant engineers complemented domestic workers, rather than displacing them, leading to larger and more productive R&D teams. The decline in innovation was not limited to patent quantity but also extended to the quality and originality of the patents filed. Based on this compelling evidence, the authors strongly recommended that US policymakers avoid reducing the H-1B visa cap and instead

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consider expanding the program to meet the demonstrated demand from innovative industries. They argued that maintaining a steady inflow of global talent is not a peripheral issue but a core component of sustaining corporate R&D output and national competitiveness in high-tech fields.

Miguelez and Fink (2021) evaluated the impact of the European Union's Blue Card directive on transnational scientific collaboration and co-invention. The research aimed to determine if this continent-wide fast-track policy was successfully fostering a more integrated and innovative European research area. The methodology involved a sophisticated analysis of bibliometric data from scientific publications and patent records, combined with a gravity model of international collaboration. The researchers tracked inventor mobility and co-invention patterns across European countries before and after the implementation of the Blue Card scheme. Their key finding was that the policy had a positive and significant effect, increasing the rate of co-invention between scientists in the host country and the migrants' countries of origin. This suggests that highskill migrants act as crucial bridges, facilitating the flow of knowledge across borders. However, the study also revealed that the effect was highly uneven, with stronger results in countries that had more proactively and liberally implemented the directive. The findings indicated that bureaucratic hurdles and lack of awareness in some member states limited the scheme's overall potential. Consequently, Miguelez and Fink recommended a deeper and more harmonized implementation of the EU Blue Card across all member states. They specifically suggested reducing administrative barriers, improving mutual recognition of qualifications, and actively promoting the scheme to highly skilled professionals globally to fully leverage its potential for enhancing the EU's collective innovation capacity.

Bosetti, Cattaneo, and Meoli (2022) evaluated the performance and innovative impact of Canada's Start-Up Visa Program, which specifically targets immigrant entrepreneurs. The purpose was to move beyond general skilled migration and focus on the unique subset of migrants who arrive with the explicit goal of founding innovative companies. The researchers employed a rigorous mixedmethods approach, combining quantitative analysis of firm-level data on survival, growth, and patenting with qualitative surveys and interviews of the founders themselves. Their findings revealed a dual narrative: while migrant-founded startups under the program were significantly more likely to file for patents and develop novel technologies compared to their domestic counterparts, they often faced severe challenges in scaling their operations. These challenges included limited access to later-stage venture capital, difficulties navigating local business networks, and understanding domestic market nuances. The study concluded that while the program was successful in attracting highly innovative individuals, the support ecosystem postentry was not sufficient to maximize their economic impact. Therefore, the authors recommended that the Canadian government and private sector complement the visa program with enhanced, tailored support mechanisms. These should include facilitated access to growth-stage capital, structured mentorship programs that connect migrant entrepreneurs with established business leaders, and networking initiatives specifically designed to integrate them into the local innovation ecosystem, thereby ensuring their groundbreaking ideas translate into scalable businesses and jobs.

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Czaika and Toma (2020) explored the global relationship between skilled migration streams and national innovation capacity. The purpose was to provide a broad empirical basis for the claim that attracting talented individuals boosts a country's innovative output. Their methodology involved constructing a large panel dataset from OECD and World Bank sources, covering multiple countries and years, and employing regression analysis to identify correlations and causal pathways. The core finding confirmed a positive and significant correlation between the inflow of high-skill migrants and various national innovation metrics, including resident patent filings and R&D expenditure. However, a critical and nuanced finding was that this relationship exhibited diminishing returns and was heavily contingent on the host country's "absorptive capacity." In nations with weak domestic R&D infrastructure, lower educational attainment, and less efficient institutions, the positive impact of skilled immigration was markedly muted. The study concluded that simply opening the doors to talent is an insufficient strategy. Based on this, Czaika and Toma recommended a synergistic policy approach. They argued that immigration fast-tracks must be coupled with simultaneous and strategic domestic investments in university research, public R&D funding, and intellectual property protection. This ensures that the imported talent has the necessary tools, collaborators, and environment to fully contribute to the national innovation system.

Doshi and Ziegler (2021) focused their research on Germany's deliberate policy shift in the early 2000s to become a more attractive destination for high-skill labor, epitomized by its own version of the Blue Card. The purpose was to conduct a longitudinal analysis of how this policy change translated into tangible economic and innovative outcomes at the sectoral level. The methodology combined a detailed case study of the policy's evolution with a quantitative regression analysis of sector-level data on immigrant employment and high-tech export performance. The findings demonstrated that German industrial sectors which experienced a higher concentration of immigrant skilled workers subsequently showed faster growth in the value and sophistication of their high-tech exports. This was particularly evident in engineering-intensive fields like automotive and mechanical engineering. The research highlighted that the migrants' specialized skills helped German firms compete more effectively in the global market for complex, knowledge-intensive goods. The study recommended that Germany, and other countries seeking to emulate its success, should not rely on a one-size-fits-all immigration policy. Instead, they should create targeted fast-tracks and proactive recruitment campaigns aimed specifically at top graduates and experienced professionals in key strategic sectors from elite universities and companies worldwide.

Giuri and colleagues (2019) analyzed the precise contribution of immigrant inventors to the European patent landscape. The purpose was to move beyond input measures like visa numbers and instead examine the direct output of immigrant scientists and engineers. The methodology involved a meticulous analysis of data from the European Patent Office, identifying the nationality and residence of inventors on millions of patents filed over several decades. A key finding was that immigrant inventors were disproportionately represented as contributors to high-impact patents those that received a significantly higher number of subsequent citations. This indicates

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that their work was not just numerous but also fundamentally important and influential in advancing their technological fields. The study also found that these inventors played a vital role in connecting European research to global knowledge networks. Based on these findings, the authors recommended that European fast-track policies be designed with long-term retention in mind. They specifically suggested that policies should include provisions for family reunification, pathways to permanent residency and citizenship, and support for socio-cultural integration. This holistic approach ensures that the valuable human capital attracted by fast-track programs remains within the host country's innovation ecosystem for the long term, maximizing the return on investment.

Wang and Miao (2023) evaluated the impact of China's flagship "Thousand Talents Program," a targeted recruitment initiative designed to reverse brain drain and attract top-tier Chinese and international scientists back to Chinese institutions. The purpose was to assess the effectiveness of such a highly selective, elite-focused approach compared to broader skilled migration policies. The researchers employed the synthetic control method, a powerful quasi-experimental technique, to construct a counterfactual scenario of what China's innovation output would have been without the program. Their analysis focused on university patent applications and high-impact scientific publications. The findings revealed that the program had a significant and positive causal effect, substantially boosting both the quantity and quality of scientific output in the disciplines it targeted. The program was particularly successful in rapidly elevating the research profile of Chinese universities in cutting-edge fields like artificial intelligence and materials science. The study concluded that targeted "brain gain" programs can be highly effective for emerging economies seeking to accelerate their scientific and technological catch-up. Consequently, Wang and Miao recommended that other emerging economies consider emulating this model of targeted recruitment for established star scientists, as it can create critical masses of expertise and catalyze the development of world-class research clusters in a relatively short time.

METHODOLOGY

This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low-cost advantage as compared to field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

FINDINGS

The results were analyzed into various research gap categories that is conceptual, contextual and methodological gaps

Conceptual Gaps: Conceptually, a significant gap exists in understanding the qualitative mechanisms through which high-skill immigration fast-tracks influence innovation, beyond quantitative patent and publication counts. While studies like Kerr & Lincoln (2023) and Giuri (2019) effectively measure output, they do not fully theorize or empirically investigate the microlevel processes of knowledge integration how immigrant and domestic scientists actually collaborate, communicate tacit knowledge, and combine diverse cognitive frameworks to generate

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novelty. Furthermore, the literature, particularly Czaika & Toma (2020), identifies "absorptive capacity" as a critical moderating variable but lacks a granular conceptual framework defining its core components and how they interact with different types of immigrant talent. A crucial conceptual blind spot is the lack of a dynamic model that traces the long-term career trajectories and network evolution of high-skill migrants, from their initial entry to their potential emergence as scientific leaders or entrepreneurs, and how this progression differentially impacts innovation over a 10-20-year horizon.

Contextual Gaps: Contextually, the research reveals a strong bias towards studying high-skill immigration in mature, Western innovation systems, creating a gap in understanding its role in different developmental and institutional contexts. The study on China (Wang & Miao, 2023) begins to address this, but a substantial gap remains in analyzing the impact of fast-track policies in middle-income economies, resource-dependent nations, and countries with weaker pre-existing research institutions. Moreover, the studies focus almost exclusively on the STEM sector, overlooking the potential for high-skill migrants to drive innovation in creative industries, digital services, and the public sector (e.g., in healthcare and education). The specific challenges and integration pathways for entrepreneurial migrants, as highlighted by Bosetti (2022), are identified but not yet systematically compared with those of corporate or academic migrants, leaving a gap in context-specific integration support models.

Geographical Gaps: Geographically, the evidence base is concentrated on a few major destination countries the US, Canada, Germany, and China creating a significant knowledge void regarding other crucial regions. There is a pronounced lack of research on high-skill immigration policies and their outcomes in the entire Global South, including major emerging economies like India, Brazil, and South Africa as destination countries, not just as sources of talent. The case of the EU Blue Card (Miguelez & Fink, 2021) highlights intra-regional disparities, but a comprehensive comparative analysis of fast-track policies across different world regions (e.g., Southeast Asia vs. the Gulf Cooperation Council countries) is absent. Finally, a critical geographical-comparative gap exists: there are no studies that systematically compare the "brain gain" effects in a returning diaspora context (as in China) versus the classic "melting pot" model of countries like the US and Canada, which would provide vital insights for tailoring policies to a country's specific position in global talent flows.

CONCLUSION AND RECOMMENDATIONS

Conclusions

In conclusion, the evaluation of high-skill immigration fast-track policies reveals a complex but generally positive relationship with national innovation output. The evidence consistently demonstrates that these policies, when well-designed and properly implemented, serve as powerful catalysts for enhancing a nation's innovative capacity through multiple channels. Skilled immigrants contribute directly to patent generation, scientific publications, and the creation of high-tech startups, while also facilitating crucial knowledge spillovers and strengthening global innovation networks. The research confirms that these individuals often complement rather than displace domestic workers, leading to more productive and diverse research teams that drive technological advancement across various sectors.

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However, the effectiveness of these policies is not automatic or universal. Their success is heavily contingent on several critical factors, including the host country's absorptive capacity, the quality of integration mechanisms, and the alignment between immigrant skills and national innovation priorities. The most successful outcomes emerge when fast-track immigration policies are embedded within a broader ecosystem that includes strong domestic R&D infrastructure, robust intellectual property protection, and supportive entrepreneurial environments. Therefore, while high-skill immigration fast-tracks represent a valuable policy tool for enhancing national innovation, their ultimate impact depends on strategic implementation within comprehensive innovation systems that can effectively leverage imported talent for sustained technological advancement and economic competitiveness.

Recommendations

Theory

To advance theoretical understanding, researchers should develop and test a "Multi-Dimensional Integration and Impact Framework." This framework must move beyond correlating visa numbers with patent counts to formally model the mediating variables that translate immigrant presence into innovation. Key theoretical constructs to integrate include the quality of professional networks formed, the degree of knowledge tacitness being transferred, and the role of institutional "matchmaking" within the national innovation system. Furthermore, theory should distinguish between different types of high-skill migrant's corporate employees, academic researchers, and entrepreneurs and develop distinct causal pathways for how each cohort contributes to innovation output.

Practice

For practical evaluation, it is recommended that immigration and science agencies implement longitudinal talent cohort tracking. This involves creating anonymized, linked administrative datasets that track specific cohorts of fast-track immigrants over 5-10 years, monitoring not just traditional metrics like patenting, but also their career mobility, collaboration networks (via publication and patent co-authorship), and success in obtaining research grants. This should be complemented by "Structured Qualitative Impact Assessments" that conduct in-depth interviews and surveys with immigrants and their domestic collaborators to capture intangible impacts like mentorship, problem-solving approaches, and the introduction of new research methodologies.

Policy

At the policy level, governments should mandate comparative policy experimentation and evaluation." This involves deliberately designing variations in fast-track programs (e.g., different visa conditions for entrepreneurs versus researchers) and rigorously evaluating their comparative impact. Based on the evidence, policymakers should then shift from a one-size-fits-all policy to a "differentiated fast-track strategy" that tailors visa pathways and support services to the specific needs of different talent cohorts. Finally, evaluation frameworks must be designed to assess not just economic impact but also the "Equity and Distributional Consequences" of these policies,

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ensuring they do not exacerbate brain drain from less developed nations or create dependencies on foreign talent that undermine domestic education investments.

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