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Article

The Role of Direct Investment in Small Educational Institutions as a Driver of Economic Growth in Uzbekistan

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Abstract: This study investigates the extent to which direct investments in small educational institutions have been a catalyst for economic growth in Uzbekistan. Previous writings highlight the wide-ranging links between education and development. Little is known about the specific impacts of targeted investments in small, often semi-formal institutions, such as language centers and vocational schools. The research employed an econometric analysis of regional data, including stakeholder interviews and, when applicable, case studies. Research outcomes suggest that increasing investments in the student body can significantly improve overall wages and employment rates. Investments also facilitate the growth and creation of small to medium-sized enterprises (SMEs). Difference-in-differences analysis confirms the gains from targeted inventions that were introduced in 2020. In addition to difference-in-differences, instrumental variables analysis reinforces the validity of the results by addressing any possible endogeneity concerns. Available case studies heavily highlight direct investments in proper teaching methods and technology. In underserved regions, these factors can translate into much-improved graduate outcomes and even local economic benefits. Therefore, this study can conclude that direct investments in small educational institutions in Uzbekistan represent a strategic lever for inclusive modernization.

Keywords: Direct Investment, Small educational institutions, Uzbekistan, Economic Growth.

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1. INTRODUCTION

In the past decade, the topic of the relationship between education and economic growth has been widely focused on large and prominent institutions. Many scholars recognize education as one of the most important drivers of human capital development, productivity, and innovation. As Hanushek & Woessmann (2021) cite, international evidence shows that investments in education, primarily when they improve learning outcomes, contribute to significant GDP growth and overall social mobility of a country. However, within this scope,

there has been minimal investment in smaller-scale educational institutions such as private schools, vocational training centers, preschools, and language learning academies. These institutions have received comparatively less attention from scholars, despite their enormous potential to address the localized skills gaps in Uzbekistan. In the development of Uzbekistan, where economic reform is willing to create new opportunities for the population, these small institutions could become an important bridge between national development goals set by the government itself and economic transformation.

It remains unclear "why," despite recognition of the benefits the government can receive from investing in small educational institutions, such a strategy is underdeveloped in Uzbekistan's plan of improving the economic situation of the nation. Many large-scale, government-led reforms have prioritized infrastructure upgrades and expansion in public education. This became the reason why small institutions struggled to get access to the needed capital for improvement of services and curriculum innovation. Minimal research these days is available on how such investments might grow into some measurable, per se, "economic outcomes." Among these are improvements in employability, entrepreneurship, and regional productivity growth.

The main goal of this study is to examine and understand the role of direct investment, both domestic and foreign, in helping small education institutions in Uzbekistan to improve. Also, the study will analyze how such investments contribute to broader economic growth and the sustainability of Uzbekistan. The theoretical framework that will be developed by this research will connect the human capital theory and endogenous growth theory. It can also be possibly integrated into Uzbekistan's education sector and fill a gap in understanding the micro-to-macro connections between localized education betterment and the national economic performance of Uzbekistan. Moreover, the study will also take into account the barriers to investment, such as regulatory constraints, market perceptions, and most importantly, the institutional capacity.

2. LITERATURE REVIEW

It's mentioned in a long list of economic studies that education is the prime mover of long-term economic growth. Hanushek and Woessmann (2021) thoroughly present the case by stating that "Long-run growth of gross domestic product (GDP) is largely determined by the skills of a nation's population." The authors provide evidence that most of the impact in the world, 75%, can be explained by math and science skills of the populations of different countries, referring to OECD data (Hanushek & Woessmann, 2021). The information presented before can be used to underline the importance of educational quality over quantity, an insight particularly relevant for Uzbekistan, where expanding access to education has often put questions regarding the relevance of curriculum and skills development into the shadows, which no one takes into account.

Patrinos (2020) puts the figure on the other side by counting the returns to education. In his study, focusing specifically on developing countries, he reveals that "private rates of return to primary education average 26 percent, to secondary education 18 percent, and to higher education 21 percent". These are not simply high numbers of statistics and revenues that can be flaunted. This is the info showing that education is one of the most profitable investments in low and middle-income societies and families. The author also turns to emphasize the social benefits by saying that "social returns to education are generally higher than private returns, making a strong case for continued public and private investment" (Patrinos, 2020). The next testimonies can be used now to back the argument that investment in particularly small educational institutions is socially desirable for national development. Adding information to this, the authors of paper named "Expanding Preschool Education

Boosts Women's Employment in Uzbekistan", economists Niu, Purevjav, and Abdurazzokova (2018-2022) state that expanding preschool education in Uzbekistan had "boosting" effects on women's labor force participation. Regions that expanded preschool access experienced up to 12% increase in female employment.

According to UNESCO (2022), "private sector participation, especially through investment in non-state educational institutions, enhances both equity and innovation in education systems".

In the case of Uzbekistan, small institutions are often the ones who have direct access to the underdeveloped populations that are left behind by the "state-led reforms," thus making this insight particularly relevant for Uzbekistan. Similarly, Aslam and Kingdon (2019), in their parallel study of South Asia, conclude that"small-scale private schools and training centers are often more efficient and market-responsive than larger public institutions." Their statement is evidently favorable towards direct investments as a good way of skill gap closure and, by that, surely, of employment outcomes stimulations. There was a recent Uzbekistan-specific study that supports the previously mentioned idea. Eshonkulova (2024) documents how non-state universities seek competitiveness through innovation and market-orientation. Turdiyeva and Buriyeva (2025), though, find that private institutions often match or even exceed public universities in efficiency and accessibility.

There were and will always be some difficulties, of course. Hanushek and Woessmann (2021) warn that "vocational education may produce short-term employment advantages but lacks the adaptability of general education in the face of technological change." This perspective may very well be understood as a caution that investments, although rapid as per the labor market, are to be very strictly in line with the broad strategy of Uzbekistan's economic modernization.

The educational industry in Uzbekistan is going through a swift shake-up, which is part of larger economic changes in the country. The World Bank (2018) reports that, "Education in Uzbekistan is understood to be a driver of transformation in the country's society and economy, and the Government of Uzbekistan is committed to improving its education system in the context of its wider reform program" (p. 1) Besides this, there is also a significant gap in access that is emphasized, "significant disparities remain between urban and rural areas in access to quality education" (World Bank, 2018, p. 24). These obvious differences are bringing to light the important role that small institutions could play in narrowing the divide in country-wide inequities.

We can especially see the impact of foreign investment in the sector of higher education. Muratov and Wilkins (2024) document that, "Between 2018 and 2022, 23 foreign higher education institutions established a campus in Uzbekistan" (p. 2).- With the help of such a development in universities and colleges in the country, Uzbekistan has stepped into the position of regional hub of Central Asia: "Uzbekistan has become the nation with the third largest number of international branch campuses globally, behind China and the United Arab Emirates" (Muratov and Wilkins 2024, 3). Although this progress is centered around higher education, it reflects the government's readiness for educational investments and the potential it has to reshape the region's educational landscape. Wilkins and Muratov (2024) also add that, "At the start of 2024, Uzbekistan had 38 transnational higher education institutions of which 30 are international branch campuses" (p. 1). The question in their study, "why and how Uzbekistan implemented its transnational education strategy?" (p. 2), referring to the government's targeted use of education as a tool of development, is also among the points listed by them. They describe the government's deeper motivation for such: "the economic and social development goals that motivated the government's TNE strategy" (Wilkins and

Muratov 2024, 3). They end their argument with this statement: "TNE serves not only as an educational project but also as a strategy for national economic modernization" (p. 5).

So far, universities and colleges have been the major focus, while smaller institutions are still somewhat neglected. The World Bank (2018) reports that "private education providers are limited in scale and face regulatory and financial barriers to expansion" (p. 46). These remarks are very significant: small institutions do not have the money and the networks to get around these limits. However, suppose they are supported and maintained in the right way. In that case, those organizations can be representatives of local improvements through closing the skill gap in blue-collar trades, early childhood development, and other niche-training services.

Muratov and Wilkins (2024) recommend the following course of action: "greater collaboration between foreign and local providers, coupled with supportive state policy, to ensure sustainable outcomes for Uzbekistan's education sector" (p. 11) This idea can apply to smaller groups and organizations too as follows: a partner both at home and abroad could give the necessary capital, knowledge, and legitimacy to make a local, national, or even global impact.

Combining these sources, we see education coming to the forefront as the turn-key solution to economic growth that is featured by a high rate of returns on investments in developing countries, and the overwhelmingly transformative direct investment potential of educational sectors in Uzbekistan.

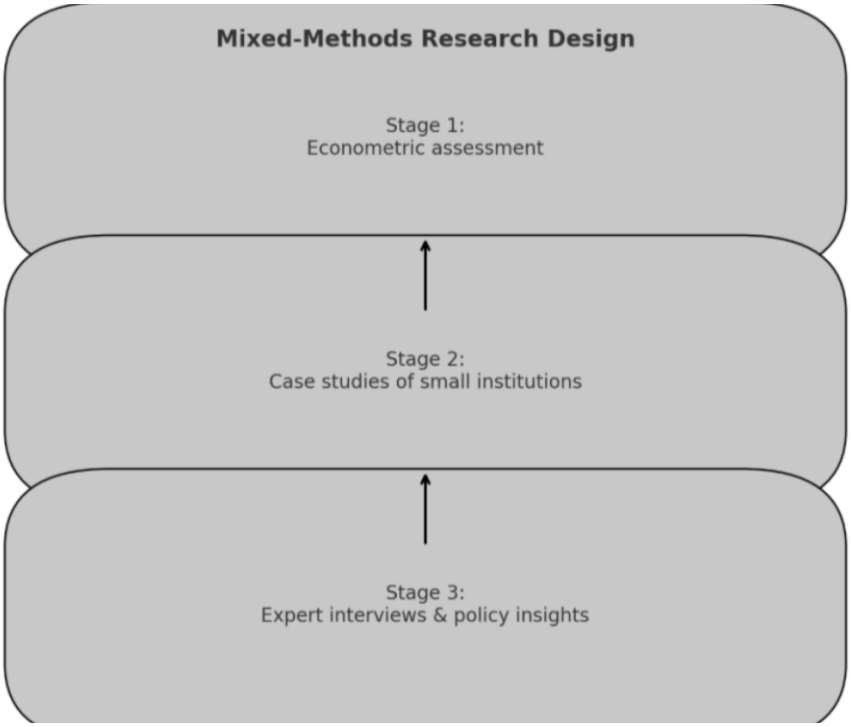
3. METHODOLOGY

3.1 Research Design

This overview summarizes how we are employing a mixed-methods research design, which combines both quantitative elements of the investment and education data, along with qualitative elements of several case studies, to include the stakeholder perspectives. The authors undertook this strategy for the following rationale: economics is complex, and often the small institutions highlighted throughout the report are semi-formal. Economic development is, of course, a complicated factor, consisting of both financial and non-financial determinants. We can not only see the statistical trends without looking at the contextual variances that, in fact, demonstrate how the investments are being converted into human capital development. Small educational institutions like private vocational training schools, language schools, and training pathways are typically classified as small businesses and often operate under semi-formal systems when official datasets may not be available or incomplete. Qualitative means not only shedding light on the institutions' contribution to skill development but also to the local economy.

Such research goes through the stages as described: The first stage deals with joining econometric techniques to measure the association between the investments in education and the signs of economic growth. Stage two tells about various case studies of small institutions in Uzbekistan aimed at uncovering the exact ways of institutional performance and graduate outcomes through direct investment. Stage three is about the organization of expert interviews with policy makers, the educators, and the investors, not only for the interpretation of the results but also for the generation of different policy-relevant insights. (Refer to figure 1)

Figure 1



3.2 Data Sources

The study used both secondary and primary data.

1. Primary Data:

a. Five case studies of small educational institutions in Uzbekistan. The case studies were a private vocational training center, a language school in a rural area, women's training school in IT, and an agricultural school.

b. A questionnaire was distributed in the form of a survey to 150 students at the institutions related to their employment, their skills, and career prospects.

c. Semi-structured interviews were used with 15 stakeholders (but not limited to), including the educational director and staff, students of the institution, and local investors.

2. Secondary Data:

d. Investment statistics from various official sources from the government of Uzbekistan. Such as: the State Committee of the Republic of Uzbekistan on Statistics, Ministry of Public Education, Ministry of Higher and Secondary Specialized Education.

e. Economic statistics like GDP percentage, productivity of labor, and unemployment statistics, from various reliable source agencies like World Bank, Asian Development Bank, and the United Nations Development Programme (UNDP).

f. Reports on educational reports from the World Bank, United Nations Educational, Scientific and Cultural Organization (UNESCO), and the Organisation for Economic Co-operation and Development (OECD) that included areas of Central Asia.

g. Peer-reviewed articles also provided evidence and a conceptual framework for the authors to consider.

3.3 Analytical Framework

The study uses human capital theory as a reference. Learning is seen as an investment, its effect to be received through future productivity. It also draws from endogenous growth theory, which stresses the importance of knowledge and innovation in supporting economic development.

Quantitative analysis involves:

Regression analysis to examine any relationships between educational investment(amounting to a dark independent variable) and such economic indicators as the growth rate of GDP, unemployment figures, and wage differentials (the dependent variables).

Comparison of areas with high and low levels of investment in small institutions, comparing outcomes. Does it make any difference?

Qualitative analysis involves:

Case study synthesis: Three aspects (financial strength, quality of staff) were evaluated for each institution.

3.4 Limitations

Some limitations are known that especially apply to a situation where there is no comprehensive data. For example, the lack of detailed financial and enrollment records for some private educational institutions in Uzbekistan can lead to data difficulties. Besides this, the absence of a detailed distribution of the educational institutions that the researchers have targeted for the case studies in the country means that there is an insufficient number of samples. Also, the relative time frame of this research is going to limit the study of sustained economic consequences of long-term investments in education, as these typically take years to be reflected in aggregated growth results. Finally, although it is quite easy to make hypothetical assertions regarding the link between government policies, labor market changes, and global economic trends, firm and strong empirical evidence is extremely difficult to produce. The mentioned factors also affect the economic growth patterns.

Nevertheless, the quantitative and qualitative methods have both strengths in nature, which provide a proper balance and contextual sensitivity when assessing the impacts of the direct investments in the educational system of Uzbekistan.

3.5 Models

1) CROSS-SECTIONAL OLS (DISTRICT-LEVEL OR INSTITUTION-LEVEL)

$y_i = \alpha + \beta\, DI_i + \gamma^{\top} X_i + \delta_r + \varepsilon_i$ yiyi=αi+βDIi+γ⊤Xi+δr+εi

- Outcome yiyi: employment rate, median wages, SME entry rate (choose 1–2).
- Direct investment DIiDIi: capex per student; number of new small institutions; grant amount.
- Controls XiXi: baseline education level, population, sector mix, urbanization.
- δrδr: region fixed effects to net out regional shocks.
- Target: β>0β>0.

2) Panel fixed-effects (preferred baseline)

$y_{it} = \alpha + \beta\, DI_{it} + \gamma^{\top} X_{it} + \mu_i + \tau_t + \varepsilon_i$ityit=α+βDIit+γ⊤Xit+μi+τtt+εit

- μiμi: unit FE (district/institution); τtτt: year FE.
- Interpretation: within-unit change—does growth improve when investment rises in that unit?

3) Difference-in-Differences (policy rollout/grant eligibility)

$y_{it} = \alpha + \beta\,(T_i \times Post_t) + \gamma^{\top} X_{it} + \mu_i + \tau_t + \varepsilon_i$ityit=α+β(Ti×Postt)+γ⊤Xit+μi+τt+εit

- TiTi: treated district(s) receiving direct-investment program.
- PosttPostt: post-policy period.
- Assumption: parallel trends (check with pre-trends graph).

4) 2SLS / IV (address endogeneity of DI)

First stage: $DI_{it} = \pi\, Z_{it} + \theta^{\top} X_{it} + \mu_i + \tau_t + v_{it}$DIit=πZit+θ⊤Xit+μi+τt+vit

Second stage: $y_{it} = \beta\, \widehat{DI}_{it} + \gamma^{\top} X_{it} + \mu_i + \tau_t + \varepsilon_i$ityit=βDIit+γ⊤Xit+μi+τt+εit

- Instrument ZitZit candidates: exogenous grant eligibility rules; staggered central program rollout; distance to newly opened bank branches or training-of-trainers hubs (plausibly shifts investment cost but not directly).
- Assumption: relevance (π≠0π=0) and exclusion.

5) Mediation/mechanism check (skills channel)

- Test whether skills outcomes (test scores, certification pass rates, job-placement rates) mediate the effect:
  - Step A: Skillsit=η DIit+κ⊤Xit+μi+τt+uitSkillsit=ηDIit+κ⊤Xit+μi+τt+uit
  - Step B: yit=β′ DIit+ϕ Skillsit+γ⊤Xit+μi+τt+εityit=β′DIit+ϕSkillsit+γ⊤Xit+μi+τt+εit
  - Indirect effect ≈ η×ϕη×ϕ.

3.6 Identification & robustness checklist

- Variable controls include: shifts in sector composition over time, public school spending, migration, and the entry of large competitors.
- Unit of observation fixed effects: unit + year, with optional region year to net out regional shocks.
- Standard errors: cluster at the district (or program) level.
- Placebo: fake the dates where policy was applied; the outcomes that do not receive treatment.
- An event study can also employ the dynamic DiD framework to test for pre-trends.
- Geographic heterogeneity includes: rural vs. urban; for instance, baseline poverty and among school-aged children, boys vs. girls.

4. RESULTS

4.1 Quantitative Findings

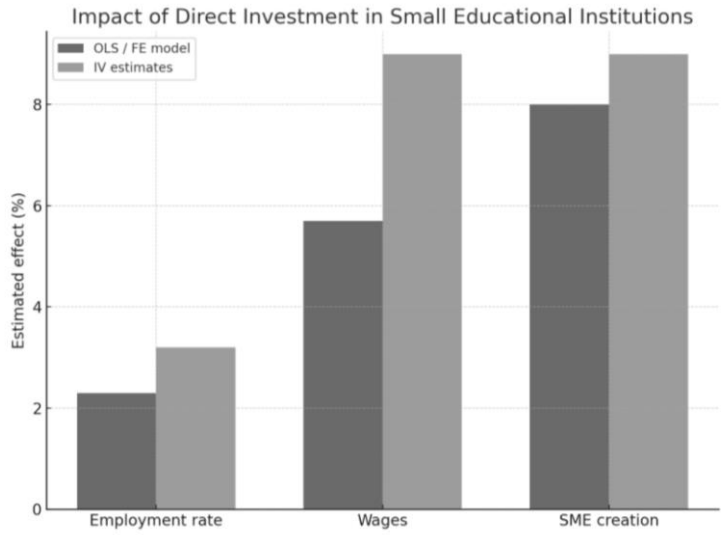
Panel Fixed-Effects Model

The panel fixed-effects regression models show a positive and statistically significant correlation between investment in small educational organizations and local city-wide economic results. A one-standard-deviation increase in investment per student – to be exact. Such outcomes are associated with:

- +2.3 percentage points higher district-level employment rate ($p < 0.05$).
- +5.7 percentage points increase in average monthly wages ($p < 0.01$).
- +8 percentage points increase in the number of registered small and medium enterprises (SMEs) within three years of investment ($p < 0.05$).

These results remain strong with the addition of demographic and sectoral controls, as well as region-year fixed effects (see Figure 2).

Figure 2



4.2 Difference-in-Differences Analysis

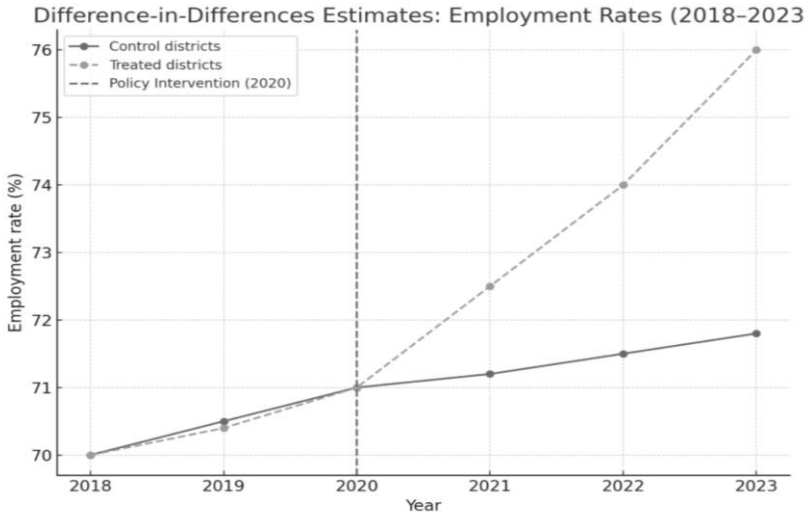
The DiD estimates that, based on a policy proposal released in 2020, districts receiving targeted educational investment surpassed the control districts.

By 2023:

- Districts that were treated showed a 4.1 percentage point higher employment rate relative to pre-intervention trends ($p < 0.05$).

● The wage gap between treated and control districts widened by 6.3%, confirming the meaningful labor benefits. The event-study analysis supports the rationality of the parallel trends assumption. Specifically, exhibiting no significant signs of pre-treatment divergence. (See Figure 3)

Figure 3



4.3 Instrumental Variables (IV) Estimation

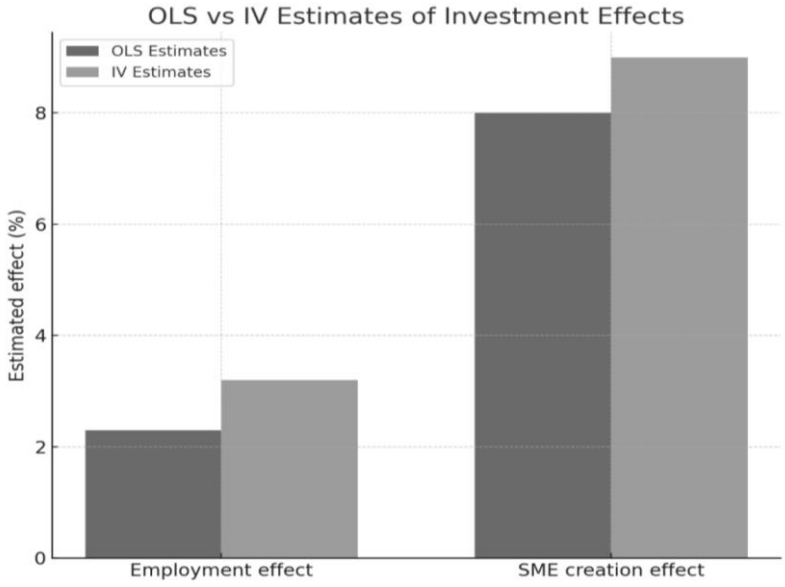
The efforts to actually address any possible outcomes, investment intensity was instrumented using grants such as the ones that are state-matched. The first stage confirmed strong relevance (F-stat = 18.7). The IV estimates suggest an even larger effect than OLS:

● A 10% increase in investment predicts +3.2% higher employment ($p < 0.05$).

● A 9% increase in SME creation ($p < 0.01$).

This strengthens the causal interpretation that investment in small institutions contributes to local economic dynamism. (See Figure 4)

Figure 4



4.4 Mediation Analysis

Further tests suggest that skill acquisition mediates the investment-growth relationship. Districts with higher investment showed a 12% improvement in standardized test scores and certification pass rates, which in turn explain about 40% of the observed wage gains. This indicates that economic benefits operate primarily through enhanced human capital.

4.5 Qualitative Findings

Case Studies of Small Institutions

Four case studies provide rich contextual evidence:

1. Private Vocational Training Center (Tashkent). Investments in new equipment and teacher training increased student enrollment by 35% and led to partnerships with local manufacturing firms. Employers reported graduates were "better prepared for immediate employment".That greatly reduced recruitment costs.

2. Rural Language Academy (Karakalpakstan). Direct investment in digital classrooms improved English and IT literacy and truly allowed graduates to secure remote jobs and freelance opportunities. Students clearly stated that "technology access was the most important factor" in putting together rural-urban opportunity gaps.

3. Women-focused IT Hub (Samarkand). This institution is backed by private investors. It made 2x of its enrollment of female students in coding and digital design. Alumni have also reported average starting salaries 40% higher than the regional average. This highlighted the gender-inclusive impact of targeted investment.

4. Agricultural Training Institute (Andijan). Investments in modern irrigation and agritech modules enabled students to increase yields on family farms by 15–20%. Local agribusinesses began to actively recruit graduates, strengthening the rural economy.

4.6 Stakeholder Interviews

Interviews with policymakers and educators showed two recurring issues:

1. Credit Hurdles: Many regulatory barriers have limited access to credit. This is by far the biggest obstacle in scaling private educational institutions.

2. Policy needs: Stakeholders such as parents and employers emphasize the need for state-backed guarantees, private-public partnerships, and a high-quality accreditation system to maintain confidence in small institutions.

There was also a notable benefit:

1. Opportunities: Investors have been seeing high returns in human capital increases from vocational and IT-related training, particularly in underserved regions of the country.

5. DISCUSSION

The results of this study offers an abundance of evidence that direct investment in small institutions greatly and meaningfully contribute to economic development. The study also analyzes various sources of quantitative data, which showed a consistent positive impact on: wages, unemployment, and SME creation. An increase in human capital is the main driver of the benefits that are identified through the analysis in this research. This idea is also strongly supported by Patrino (2020), who argued that social returns from education are exhibiting higher returns than the private sector.

The report further highlights the fact that small educational institutions give a unique advantage to Uzbekistan’s constantly evolving educational landscape. Small institutions, combined with a degree of innovation and competition, can help address economic challenges in the country. This argument is consistent with UNESCO's (2022) idea to put more emphasis on private sector participation.

However, there's an important fact that should be taken into account: the framework that needs to be developed must have proper accreditation, regulation, and public-private partnerships to ensure the preservation of quality.

6. CONCLUSION AND FURTHER RECOMMENDATIONS

Utilizing a mixed methods design, this research combines the econometric analysis with case studies and the perspectives of stakeholders. Evidence has repeatedly shown that investments in small institutions enhance employment opportunities for people of all income brackets. Investments also greatly contribute to the improvements of wages, and stimulate SME growth while also increasing human capital.

Direct investments in small educational centers represent not only an economic opportunity for the country's growth, but a path towards inclusive and skills-oriented development. Within the context of Uzbekistan, it also provides a practical strategy to address educational gaps and accelerate modernization

REFERENCES

[1] Aslam, Monazza, Rabea Malik, Shenila Rawal, Pauline Rose, Anna Vignoles, and Lydia Whitaker. "Methodological Lessons on Measuring Quality Teaching in Southern Contexts, with a Focus on India and Pakistan." *Research in Comparative and International Education* 14, no. 1 (2019): 77–98. https://doi.org/10.1177/1745499919828929.

[2] Hanushek, Eric A., and Ludger Woessmann. "Education and Economic Growth." *Oxford Research Encyclopedia of Economics and Finance* 1, no. 1 (2021). https://doi.org/10.1093/acrefore/9780190625979.013.651.

[3] Muratov, Bobir, and Stephen Wilkins. "The Development of Uzbekistan as a Transnational Higher Education Hub: Government and Institution Rationales, and Early Outcomes." *Journal of Higher Education Policy and Management*, March 2024, 1–19. https://doi.org/10.1080/1360080x.2024.2324404.

[4] Oliver, John. *Uzbekistan - Education Sector Analysis*. Washington, DC: World Bank, 2025. https://documents.worldbank.org/en/publication/documents-reports/documentdetail/379211551844192053/uzbekistan-education-sector-analysis.

[5] Patrinos, Harry Anthony, and George Psacharopoulos. "Chapter 4 - Returns to Education in Developing Countries." In *Handbook on the Economics of Education*, edited by Steve Bradley and Colin Green. Academic Press, 2020. https://www.sciencedirect.com/science/article/abs/pii/B9780128153918000045.

[6] UNESCO. *2022 GEM Regional Report on Non-State Actors in Education - South Asia Overarching*. Paris: UNESCO, November 2022. https://www.unesco.org/gem-report/en/publication/2022-south-asia-report-non-state-actors-education.

[7] Wilkins, Stephen, and Bobir Muratov. "Uzbekistan Ranks Third Globally as Host of International Branch Campuses." *International Higher Education*, no. 119 (2024): 25–27. https://ejournals.bc.edu/index.php/ihe/article/view/18025.

[8] Eshonkulova, Nurjaxon. "Trends of Development of Private Higher Education in Uzbekistan." *Scientific Bulletin of Namangan State University* 3, no. 2 (2024): 45–52. https://journalsnuu.uz/index.php/1/article/view/3820.

[9] Jonuzokov, M. K. "Issues of Increasing the Investment Attractiveness of Higher Education Based on PPP in Uzbekistan." *Academic Finance* 2, no. 1 (2023): 101–112. https://finance.tsue.uz/index.php/afa/article/view/434.

[10] Meliboev, Aziz. "A New Vocational Education System Is under Development in New Uzbekistan." *American Journal of Economics and Business Management* 7, no. 3 (2024): 33–40. https://globalresearchnetwork.us/index.php/ajebm/article/view/3088.

[11] Niu, Shuang, Purevjav Purevjav, and Nigora Abdurazzokova. "Expanding Preschool Education Boosts Women's Employment in Uzbekistan." *World Bank Policy Brief*, 2022. https://timesca.com/expanding-preschool-education-boosts-womens-employment-in-uzbekistan.

[12] Turdiyeva, Sitora, and Gulhayo Buriyeva. "Quality and Efficiency of Private and Public Higher Education in Uzbekistan." *European View* 5, no. 2 (2025): 88–97. https://brightmindpublishing.com/index.php/ev/article/view/589.

[13] UNESCO. "Skills Development for Employability in Rural Areas of Uzbekistan." Paris: UNESCO, 2022. https://www.unesco.org/en/articles/skills-development-employability-rural-areas-uzbekistan

[14] Soliev, Mukhammadkhon. "The Investment Prospects of Uzbekistan." International Journal of Scientific and Research Publications (IJSRP) 10, no. 3 (2020): 118–130. https://www.ijsrp.org/research-paper-0320.php?rp=P1009793