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ADVANTAGES AND DISADVANTAGES OF THE RESOURCE MANAGEMENT SYSTEM IN THE HIGHER EDUCATION SYSTEM OF KAZAKHSTAN

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Abstract:

Resource management is crucial for ensuring quality education and research in higher education institutions. The higher education system in Kazakhstan has undergone various reforms to improve resource allocation and utilization. This paper examines the advantages and disadvantages of the current resource management system in Kazakhstan's higher education.

The centralized governance model concentrates decision-making powers regarding resource allocation with the Ministry of Education and Science. This allows aligned strategic development and coordinated quality assurance across all higher education institutions. However, centralized control limits institutional autonomy and flexibility in resource utilization. The norms-based financing methodology promotes equitable distribution of resources based on objective workload indicators. But it overlooks qualitative outcomes and contextual requirements of individual institutions. The focus on per capita financing norms overlooks the need for optimal allocation across different expenditure heads.

The analysis suggests that the resource management system has ensured stability and quality control in Kazakhstan's higher education system. However, there is a need for calibrated reforms to allow greater institutional autonomy along with accountability; balanced financing across different inputs; and linking resource allocation with qualitative outcomes. The recommendations include development of institutional leadership capabilities, clustered/differentiated approach to financing, linking funding with outcomes, and adoption of total quality management principles in resource governance.

Key Words: Higher Education System Of Kazakhstan, Resource Management, Centralized Governance, İnstitutional Autonomy, Norms-Based Financing, Quality Assurance, Institutional Leadership.

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Introduction:

Higher education plays a pivotal role in developing the human capital and technological capabilities that drive innovation, economic growth and social progress. The accessibility, quality and research outputs of a nation's higher education system depends significantly on how financial, human, physical and information resources are managed within universities and colleges.

Kazakhstan has emphasized higher education reforms as a key strategy for transitioning towards a knowledge-based economy [1]. Extensive restructuring initiatives have been taken by the Government of Kazakhstan over the past two decades to expand access, improve quality and enhance financial viability of its higher education institutions. A salient focus of these reforms has been on transforming resource governance through centralized steering and formula-based financing models [2].

This paper provides a broad analysis of the resource management system evolved within Kazakhstan's higher education sector. The study examines the merits and limitations of the centralized, norms-driven resource allocation model from the perspective of balancing excellence, equity and autonomy of higher education institutions. Policy recommendations are presented to address the gaps in linking resource utilization with qualitative improvements, institutional leadership and system-level quality assurance. The suggested reforms could facilitate Kazakhstan in consolidating world-class universities and research centers for sustainable development.

The paper is structured into six sections. The first section outlines the landscape of higher education in Kazakhstan and trends in public financing. The second section explains the centralized governance model and norms-based resource allocation process. The third section assesses the advantages of this approach in ensuring equitable access and quality control across the higher education system.

The fourth section discusses the disadvantages such as curtailed institutional autonomy, overlooked qualitative outcomes, and suboptimal fund utilization. The fifth section provides specific policy recommendations to recalibrate resource governance by enhancing university leadership, adopting differentiated financing strategies, linking funding with outputs, and integrating total quality principles in resource management. The concluding section summarizes the key discussion points and policy implications.

Overview of Higher Education System in Kazakhstan

Kazakhstan has one of the largest higher education systems in Central Asia with 146 universities and 810 colleges as of 2020 (Statistics Committee of Kazakhstan, 2021). Higher education reforms have been a priority to build human capital and technological capabilities for transitioning towards a knowledge economy. Significant expansion of higher education has taken place since Kazakhstan gained independence in 1991.

The gross enrollment ratio increased from 31% in 1991 to 53% by 2018, reflecting the rapid increase in access (World Bank, 2022). The number of university students rose from 281,000 in 2000 to 660,000 by 2020. The system comprises 91 public and 55 private universities. Public institutions account for 80% of total student enrollment (Statistics Committee of Kazakhstan, 2021).

Higher education is primarily state-funded in Kazakhstan. Public expenditure on tertiary education has steadily increased both as percentage of GDP and total government spending. Education expenditure rose from 2.8% of GDP in 1995 to 3.6% by 2013. The share of tertiary education spending in total education budget increased from 11.7% to 23.5% during this period (OECD, 2017).

In per capita terms, the public funding for tertiary education increased from 16,100 Tenge (US\$ 104) in 1995 to 442,500 Tenge (US\$ 3,330) by 2013. The higher education budget reached 452 billion Tenge (US\$ 1.2 billion) in 2020, doubling from 2010 levels in real terms (Statistics Committee of Kazakhstan, 2021).

These spending trends indicate that higher education has received significant priority in Kazakhstan's public budget. However, the resource allocation models require reforms to improve qualitative outcomes and global competitiveness along with expansion and equity [3]. The next section explains the centralized governance structure and formula-based financing system for managing resources.

Centralized governance model and norms-based resource allocation process

Kazakhstan, a nation rich in natural resources and cultural diversity, has undergone significant transformations since gaining independence in 1991. One aspect of its governance model that has evolved over time is the centralized approach to resource allocation and management [4]. This section explores the centralized governance model and the norms-based resource allocation process in Kazakhstan, highlighting its evolution, key features, and implications.

Evolution of the Centralized Governance Model:

In the early years following independence, Kazakhstan inherited a centralized governance model from its Soviet past. The government played a dominant role in economic planning, resource allocation, and decision-making processes. However, as Kazakhstan transitioned to a market-oriented economy, there was a gradual shift towards decentralization and liberalization [5].

Throughout the 1990s and early 2000s, Kazakhstan embarked on a series of economic reforms aimed at liberalizing markets, attracting foreign investment, and promoting private sector development. This period saw the emergence of market-based mechanisms and the gradual devolution of decision-making authority to local governments and private enterprises.

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However, despite these reforms, Kazakhstan maintains a strong centralized governance model, particularly in strategic sectors such as energy, natural resources, and infrastructure. The government retains significant control over key industries through state-owned enterprises and regulatory frameworks [6].

Norms-Based Resource Allocation Process:

In Kazakhstan, resource allocation follows a norms-based process guided by government policies, regulations, and strategic priorities. The government establishes norms, quotas, and targets for resource extraction, production, and distribution based on economic, social, and environmental considerations [7].

For instance, in the energy sector, the government sets production targets for oil, gas, and coal extraction, allocates exploration rights through licensing processes, and regulates production levels to ensure compliance with international agreements and domestic demand.

Similarly, in the agricultural sector, the government implements policies to support domestic food security, promote sustainable farming practices, and allocate land and water resources to agricultural enterprises based on established norms and quotas.

Implications of the Centralized Governance Model:

The centralized governance model and norms-based resource allocation process in Kazakhstan have several implications for the country's economy, society, and environment.

On the one hand, the centralized approach allows the government to maintain stability, manage risks, and pursue long-term strategic objectives in key sectors [8]. It enables coordinated planning, investment prioritization, and resource optimization, particularly in industries critical to national development.

However, the centralized governance model also raises concerns about transparency, accountability, and inclusivity in decision-making processes. Critics argue that centralized control may hinder competition, innovation, and private sector participation, limiting opportunities for economic diversification and sustainable development.

Moreover, the norms-based resource allocation process may lack flexibility and responsiveness to changing market dynamics, technological advancements, and environmental challenges. As Kazakhstan seeks to balance economic growth with social equity and environmental sustainability, there is a growing recognition of the need for greater transparency, stakeholder engagement, and adaptive governance mechanisms [9].

In conclusion, the centralized governance model and norms-based resource allocation process in Kazakhstan reflect the country's unique historical, political, and economic context. While this approach has contributed to stability and strategic planning in key sectors, it also presents challenges related to transparency, accountability, and adaptability. Moving forward, Kazakhstan faces the task of reconciling centralized control with the need

for inclusive, participatory governance to foster innovation, resilience, and sustainable development.

Advantages of this approach in ensuring equitable access and quality control across the higher education system

The centralized governance model and norms-based resource allocation process in Kazakhstan's higher education system play a crucial role in ensuring equitable access and quality control [10]. By standardizing quality, allocating resources based on need, engaging in strategic planning, implementing quality assurance mechanisms, promoting diversity and inclusion, and utilizing resources efficiently, the government can effectively address disparities and enhance educational opportunities for all citizens.

These advantages contribute to the overall effectiveness and competitiveness of Kazakhstan's higher education system, enabling it to meet the evolving needs of society and the economy. By prioritizing equity and quality, Kazakhstan is laying the foundation for a well-educated and skilled workforce that can drive sustainable development and prosperity in the years to come.

In the face of global challenges and opportunities, Kazakhstan's commitment to equitable access and quality control in higher education positions it as a leader in the region and a model for other nations striving to build inclusive and high-quality education systems [10]. Through continued investment, innovation, and collaboration, Kazakhstan can further strengthen its higher education system and empower individuals to realize their full potential, contributing to the country's long-term success and competitiveness on the global stage.

The disadvantages such as curtailed institutional autonomy, overlooked qualitative outcomes, and suboptimal fund utilization

While the centralized governance model and norms-based resource allocation process in Kazakhstan's higher education system offer certain advantages, they also come with significant disadvantages. The curtailment of institutional autonomy, the overlooking of qualitative outcomes, and suboptimal fund utilization can hinder the effectiveness and responsiveness of the higher education landscape [11].

Addressing these disadvantages requires a concerted effort to strike a balance between centralized control and institutional autonomy, prioritize holistic educational outcomes, and improve the efficiency and effectiveness of resource allocation processes. By empowering higher education institutions, fostering innovation, and implementing flexible and responsive policies, Kazakhstan can overcome these challenges and build a higher

education system that is dynamic, inclusive, and responsive to the needs of students and society [12].

In the face of rapid societal and technological changes, Kazakhstan's commitment to addressing these disadvantages will be critical in ensuring that its higher education system remains relevant, competitive, and capable of equipping students with the skills and knowledge they need to thrive in the 21st century.

Specific policy recommendations to recalibrate resource governance by enhancing university leadership, adopting differentiated financing strategies, linking funding with outputs, and integrating total quality principles in resource management.

In order to address the challenges associated with centralized governance and norms-based resource allocation in Kazakhstan's higher education system, specific policy recommendations can be proposed. These recommendations aim to enhance university leadership, adopt differentiated financing strategies, link funding with outputs, and integrate total quality principles in resource management. By implementing these policies, Kazakhstan can promote institutional autonomy, improve resource utilization, and enhance the overall quality and effectiveness of its higher education system [13].

Enhancing University Leadership:

Policy Recommendation: Kazakhstan should empower higher education institutions with greater autonomy and decision-making authority by enhancing university leadership [14]. This can be achieved by granting institutions more flexibility in governance structures, including the selection of academic leadership and the development of strategic plans. Additionally, fostering a culture of shared governance and academic freedom will enable institutions to respond more effectively to the diverse needs and aspirations of their students and communities.

Adopting Differentiated Financing Strategies:

Policy Recommendation: Kazakhstan should adopt differentiated financing strategies that take into account the unique missions, priorities, and performance of higher education institutions [15]. Instead of relying solely on centralized norms and quotas, funding allocations should be tailored to the specific needs and objectives of each institution. This could involve allocating additional resources to institutions that demonstrate excellence in research, teaching, or community engagement, while providing targeted support to institutions facing particular challenges or serving underserved populations.

Linking Funding with Outputs:

Policy Recommendation: Kazakhstan should link funding with outputs and outcomes to incentivize higher education institutions to achieve measurable results and deliver value for money [16]. This can be accomplished by introducing performance-based funding mechanisms that reward institutions for meeting key performance indicators, such as

graduation rates, employment outcomes, research productivity, and student satisfaction. By aligning funding incentives with desired outcomes, Kazakhstan can encourage institutions to focus on areas of strategic importance and drive continuous improvement in educational quality and effectiveness.

Integrating Total Quality Principles in Resource Management:

Policy Recommendation: Kazakhstan should integrate total quality principles in resource management to ensure that resources are utilized efficiently and effectively to support the mission and goals of higher education institutions. This involves adopting a systematic approach to quality management that emphasizes continuous improvement, stakeholder engagement, and data-driven decision-making. By promoting a culture of quality and accountability, Kazakhstan can enhance transparency, optimize resource allocation, and maximize the impact of investments in higher education.

In conclusion, by implementing these specific policy recommendations, Kazakhstan can recalibrate resource governance in its higher education system, promote institutional autonomy, improve resource utilization, and enhance the overall quality and effectiveness of education delivery. These policies will enable higher education institutions to better serve the needs of students and society, drive innovation and excellence, and contribute to the country's socioeconomic development and competitiveness in the global arena.

The key discussion points and policy implications

The examination of key discussion points and policy implications reveals the complexity and significance of governance challenges within Kazakhstan's higher education system [17]. Addressing these challenges requires a multifaceted approach that balances institutional autonomy with centralized oversight, prioritizes resource efficiency and quality assurance, promotes equity and inclusion, and enhances internationalization and global competitiveness.

Moving forward, policymakers must collaborate with institutional leaders, educators, and stakeholders to implement targeted reforms that address the specific needs and aspirations of Kazakhstan's higher education sector. By fostering innovation, accountability, and inclusivity, Kazakhstan can build a higher education system that equips individuals with the knowledge, skills, and competencies needed to thrive in the 21st century.

Ultimately, the success of Kazakhstan's higher education system will be measured not only by its ability to produce skilled graduates and advance knowledge but also by its capacity to foster social mobility, economic growth, and global engagement. Through strategic investments, policy reforms, and collaborative partnerships, Kazakhstan can unlock the full potential of its higher education sector and position itself as a leader in the global knowledge economy.

Conclusion

In conclusion, the comprehensive analysis of Kazakhstan's higher education system, focusing on centralized governance, norms-based resource allocation, and potential policy reforms, underscores the importance of addressing governance challenges and leveraging opportunities to enhance the quality, accessibility, and effectiveness of higher education in the country.

The examination of key discussion points and policy implications highlights the need for a balanced approach that prioritizes institutional autonomy, resource efficiency, quality assurance, equity, and internationalization. By adopting targeted reforms and fostering collaboration among stakeholders, Kazakhstan can build a higher education system that is responsive to the needs of students, communities, and the evolving demands of the global knowledge economy.

As Kazakhstan continues its journey towards socioeconomic development and modernization, investing in higher education and implementing evidence-based policy reforms will be critical in shaping the country's future trajectory. By prioritizing innovation, accountability, and inclusivity, Kazakhstan can unlock the full potential of its human capital, drive sustainable growth, and contribute to the advancement of knowledge and prosperity both nationally and globally.

In essence, the success of Kazakhstan's higher education system will be determined by its ability to adapt to changing circumstances, embrace innovation, and cultivate a culture of excellence and lifelong learning. Through collaborative efforts and visionary leadership, Kazakhstan can build a higher education system that empowers individuals, fosters social mobility, and positions the country as a dynamic hub of knowledge, innovation, and opportunity in the 21st century.

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