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MANAGEMENT OF INNOVATIVE DEVELOPMENT OF THE REPUBLIC OF KAZAKHSTAN: PROBLEMS AND PREREQUISITES

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Innovation has been considered one of the most critical factors for achieving sustainable economic development. The Republic of Kazakhstan, a country located in Central Asia, has shown significant potential for innovative development in recent years. However, the management of innovative development in the country still faces several problems that need to be addressed. This report aims to analyze the problems and prerequisites for the management of innovative development in the Republic of Kazakhstan.

Prerequisites for innovative development in the Republic of Kazakhstan: The Republic of Kazakhstan has a well-diversified economy, with a focus on the oil and gas industry. However, the government has recognized the need to diversify the economy and shift towards a knowledge-based economy, driven by innovation. Some of the prerequisites for innovative development in the Republic of Kazakhstan are as follows:

Political stability: The Republic of Kazakhstan has enjoyed political stability since gaining independence in 1991. This stability has created a favorable environment for foreign investment and the development of innovative technologies.

Strategic location: The Republic of Kazakhstan is strategically located between Europe and Asia, making it an ideal hub for transportation and logistics. This has facilitated the growth of trade and commerce, leading to increased innovation and technological advancements [1].

Education system: The Republic of Kazakhstan has a well-developed education system, with a focus on science, technology, engineering, and mathematics (STEM) education. The government has also implemented various programs to encourage entrepreneurship and innovation among students [2].

Natural resources: The Republic of Kazakhstan is rich in natural resources, including oil, gas, and minerals. The government has leveraged these resources to develop infrastructure and create a favorable environment for innovative development.

Problems of innovative development in the Republic of Kazakhstan: Despite the prerequisites for innovative development, the Republic of Kazakhstan still faces several problems that need to be addressed. Some of the significant problems are as follows:

Lack of funding: The government has invested significantly in infrastructure and education, but funding for research and development (R&D) is still lacking. This has hindered the development of innovative technologies and startups.

Limited access to capital: Startups and innovative businesses in the Republic of Kazakhstan have limited access to capital. The financial system is still developing, and venture capital is not readily available. This has made it challenging for entrepreneurs to scale their businesses [3].

Brain drain: Talented individuals in the Republic of Kazakhstan are leaving the country to seek better opportunities abroad. This has resulted in a brain drain and a shortage of skilled workers, hindering the growth of innovative industries.

Lack of regulatory framework: The Republic of Kazakhstan lacks a comprehensive regulatory framework for innovative industries. This has created uncertainties for investors and businesses, hindering the growth of innovative industries.

Limited cooperation between academia and industry:

There is limited cooperation between academia and industry in the Republic of Kazakhstan. This has hindered the commercialization of research and development, and the development of innovative technologies [4].

In order to address the problems faced by innovative development in the Republic of Kazakhstan, the government has taken several initiatives. These initiatives are aimed at creating an enabling environment for innovation and entrepreneurship. Some of the initiatives taken by the government are as follows:

Creation of the Astana International Financial Centre (AIFC): The AIFC is a financial hub established to attract foreign investment and promote innovation and entrepreneurship. The AIFC has created a favorable environment for innovative startups and businesses by providing access to venture capital and other financial resources [5].

Implementation of the Digital Kazakhstan program: The Digital Kazakhstan program is aimed at promoting digital transformation and innovation in the country. The program focuses on developing the necessary infrastructure, promoting the use of digital technologies, and creating a favorable environment for startups and innovative businesses [6].

Creation of the National Agency for Technological Development: The National Agency for Technological Development is a government agency established to support innovation and technological development in the country. The agency provides funding and other resources to innovative startups and businesses, with a focus on technology transfer and commercialization of research and development [7].

Establishment of the Astana Hub: The Astana Hub is an innovation hub established to promote entrepreneurship and innovation in the country. The hub provides access to mentorship, networking, and other resources to startups and businesses, with a focus on developing innovative technologies and solutions [8].

Implementation of the 100 Concrete Steps program: The 100 Concrete Steps program is a comprehensive reform program aimed at modernizing the economy and society of Kazakhstan. The program includes initiatives aimed at promoting innovation and entrepreneurship, including the creation of a legal framework for innovative industries and the establishment of a national innovation fund [9].

Despite these initiatives, the management of innovative development in the Republic of Kazakhstan still faces several challenges. To address these challenges, the government needs to take further steps, including:

Increasing funding for research and development: The government needs to increase funding for research and development to promote innovation and technological development in the country. This will require a shift in priorities from infrastructure development to investing in human capital and innovation.

Creating a comprehensive regulatory framework for innovative industries: The government needs to create a comprehensive regulatory framework for innovative industries to provide certainty for investors and businesses. The regulatory framework should be transparent and predictable, with a focus on promoting innovation and entrepreneurship.

Developing the financial system: The government needs to develop the financial system to provide startups and innovative businesses with access to capital. This will require the development of venture capital and other financial resources to support innovative industries [10].

Fostering cooperation between academia and industry: The government needs to foster cooperation between academia and industry to promote the commercialization of research and development. This will require the establishment of partnerships and collaborations between universities, research institutes, and businesses.

Government Initiatives: The Kazakhstani government has launched several initiatives to promote innovation and entrepreneurship. One such initiative is the "Nurly Zhol" program, which aims to diversify the economy and develop new industries. The government has also established several innovation centers and technology parks to support the development of new businesses [11].

Intellectual Property Rights: Kazakhstan has implemented measures to protect intellectual property rights, including the establishment of a patent office and the adoption of international standards. This provides greater incentives for businesses to invest in research and development and can help attract foreign investment [12].

Focus on Emerging Technologies: Kazakhstan is focusing on emerging technologies such as artificial intelligence, blockchain, and biotechnology. The government has established a digital transformation program to promote the adoption of these technologies, and several companies are already working in these areas [13].

International Recognition: Kazakhstan has received international recognition for its efforts to promote innovation. In 2020, the Global Innovation Index ranked Kazakhstan 48th out of 131 countries, up from 61st in 2019. This suggests that the country is making progress in developing a favorable environment for innovation [14].

Development of Cluster Policy: Kazakhstan has implemented a cluster policy aimed at promoting the clustering of businesses in specific regions or industries. This policy aims to foster collaboration, knowledge-sharing, and economies of scale, which can lead to greater innovation and competitiveness [15].

Diversification of the Economy: Kazakhstan's economy is heavily reliant on oil and gas, which makes it vulnerable to fluctuations in commodity prices. The government has recognized the need to diversify the economy and has launched several initiatives aimed at developing new industries and sectors, including agriculture, tourism, and high-tech industries [10].

Support for Startups: Kazakhstan has implemented measures to support startups, including the establishment of startup incubators and accelerators, and the launch of a startup visa program. These initiatives aim to provide support and resources for startups, which can help them develop and scale their businesses [16].

Promotion of Green Technologies: Kazakhstan has recognized the importance of green technologies and has launched several initiatives aimed at promoting the adoption of renewable energy and reducing carbon emissions. This includes the construction of wind and solar power plants, and the adoption of energy-efficient technologies in buildings and industries [17].

Regional Integration: Kazakhstan is a member of the Eurasian Economic Union (EAEU), which provides access to a market of over 180 million people. This regional integration can facilitate the scaling of innovative products and services and can help businesses expand beyond the domestic market [10].

In conclusion, the Republic of Kazakhstan has shown significant potential for innovative development, with a focus on developing a knowledge-based economy driven by innovation and entrepreneurship. However, the management of innovative development still faces several challenges, including a lack of funding, limited access to capital, brain drain, lack of regulatory framework, and limited cooperation between academia and industry. The government has taken several initiatives to address these challenges, but more needs to be done to unlock the full potential

of innovative development in the country. By increasing funding for research and development, creating a comprehensive regulatory framework, developing the financial system, and fostering cooperation between academia and industry, the Republic of Kazakhstan can create an enabling environment for innovation and entrepreneurship, leading to sustainable economic growth and development.

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ШЫҒЫС ҚАЗАҚСТАНДАҒЫ ІШКІ ТУРИЗМНЫҢ ЭКОНОМИКАҒА ПАЙДАСЫ, ЭКОЛОГИЯҒА ЗИЯНЫ

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