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Technology: A fundamental element in the construction of BRICS development policies.

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Annotation: This article examines the vital role of technology in the development and execution of effective development policies within the BRICS. By analyzing the local context and the various challenges facing the BRICS countries, he studies how information and communication technologies (ICT), renewable energy sources and technological innovation can stimulate economic growth, improve public services, strengthen human capital and promote sustainable development and the projection of the BRICS on the international scene. In the end, the article proposes specific recommendations for the strategic integration of technology into public policies within the BRICS member countries.

Key words: Technology, development, BRICS, ICT, renewable energies, innovation, public policies.

Аннотация: В этой статье рассматривается жизненно важная роль технологий в разработке и осуществлении эффективной политики развития в рамках БРИКС. Анализируя местный контекст и различные вызовы, стоящие перед странами БРИКС, он изучает, как информационно-коммуникационные технологии (ИКТ), возобновляемые источники энергии и технологические инновации могут стимулировать экономический рост, улучшать государственные услуги, укреплять человеческий капитал и способствовать устойчивому развитию и продвижению БРИКС на международной арене. В заключение в статье предлагаются конкретные рекомендации по стратегической интеграции технологий в государственную политику стран-участниц БРИКС.

Ключевые слова: Технологии, развитие, БРИКС, ИКТ, возобновляемые источники энергии, инновации, государственная политика.

Introduction. Technology is no longer a peripheral attention however instead a significant pillar in shaping the developmental trajectories of countries. This holds mainly genuine for the BRICS nations, a bloc of emerging economies striving for greater worldwide have an impact on and progressed requirements of dwelling for his or her residents. Their development guidelines more and more apprehend technology as an important motive force of monetary growth, social progress, and worldwide competitiveness. From fostering innovation and entrepreneurship to enhancing productivity and addressing societal demanding situations, generation plays a multifaceted function inside the BRICS's strategic vision.

Material and Methods. Technology constitutes a foundational detail in shaping the developmental guidelines of the BRICS countries. It acts as a catalyst for economic growth, social progress, and worldwide competitiveness. Access to and mastery of generation are not mere alternatives but requirements for these rising economies to reap their favored degrees of development and have an impact on the arena stage.

BRICS Worldwide Place understands that generation is not just a tool, but a significant motivational power of innovation in Sevara regions, from production and agriculture to healthcare and schooling. Hence policies are prepared towards promoting strategic investments through technical upgradation in research and reforms, promoting cooperation between academics and professional enterprises and promoting the growing favorable environment for entrepreneurship

and innovation. Furthermore, emphasis is positioned on bridging the digital divide, making sure equitable get entry to generation for all citizens, and developing a professional staff able to leveraging technological improvements for the advantage of society. This proactive approach underscores the knowledge that technology isn't always just an end in itself but a way to gain broader socio-financial dreams inside the BRICS framework.

The result and discussion. Technology plays a pivotal function in shaping improvement guidelines in the BRICS international locations. These rising economies apprehend generation as an essential detail for reaching sustainable boom, improving competitiveness, and improving the first-class of lifestyles for their citizens. By strategically integrating technological improvements into their development agendas, BRICS international locations intention to address urgent challenges associated with infrastructure, healthcare, education, and environmental sustainability.

In addition, generation helps in innovation in many areas, promotes monetary diversification and increases new opportunities for trade and investment. The BRICS nations are actively investing in study and development, selling era transfer, and encouraging cooperation between academics, industries and officials to nurture a colorful innovation environment. This dedication to technological development underlines the importance of generations in using the collective progress of BRICS and strengthening their role as major gamers in the global economy.

The upward push of the BRICS countries represents a great shift within the global financial and political panorama. These countries, characterized by means of their big populations, burgeoning economies, and aspirations for greater worldwide have an impact on, have adopted awesome yet interconnected improvement guidelines aimed at accomplishing sustainable increase and improving the quality of life for their residents. At the coronary heart of those guidelines lies technology. This essay will argue that generation isn't always simply a supporting tool but an essential detail inside the production of BRICS development guidelines, shaping their monetary techniques, social programs, and geopolitical pursuits. We will know that BRICS international places took advantage of technology to reopen their accurate demand conditions, foster innovation and eventually, reopening the global order.

BRICS International locations have been given early recognition on technological development that is an important driver of monetary competition. Traditional fashions of development, closely reliant on herbal resources and coffee-skilled hard work, are insufficient for reaching sustained growth within the 21st century. Instead, the BRICS nations are an increasing number of focusing on growing their technological abilities to decorate productiveness, diversify their economies, and flow up the fee chain. This emphasis on era is evident of their country wide development techniques.

China, as an example, has explicitly prioritized technological innovation as a cornerstone of its countrywide time table. Initiatives like "Made in China 2025" and the "Internet Plus" approach display a dedication to fostering home innovation in key sectors, along with advanced production, artificial intelligence, and biotechnology [1]. These regulations' goal to transform China from an international manufacturing hub to a technological powerhouse, capable of competing with developed nations in current industries [2]. This ambition is supported through huge investments in research and improvement (R&D), education, and infrastructure.

Similarly, India has embraced generation as an essential enabler for its improvement dreams. The "Digital India" campaign targets to connect rural communities to the internet, sell virtual literacy, and deliver authorities services on line [3]. This initiative seeks to bridge the digital divide and empower residents with get entry to data and possibilities. Furthermore, India has witnessed top notch growth in its IT zone, becoming a global hub for software program development and outsourcing [4. P; 20]. This fulfillment has fueled financial boom and created employment possibilities for thousands and thousands of Indians.

Russia, despite going through economic challenges, has also diagnosed the importance of

technological innovation. The "National Technology Initiative" targets to foster the development of new technologies in priority areas, together with artificial intelligence, robotics, and quantum computing [5]. Russia's historical power in technology and engineering offers a stable basis for technological advancement, and the government is actively selling collaborations among studies establishments, universities, and companies to boost up innovation.

Brazil, while facing its personal set of financial and social challenges, has made big strides in growing its technological competencies, especially in agriculture. Embrapa, the Brazilian Agricultural Research Corporation, has performed a critical function in developing technology that have transformed Brazil into a prime agricultural exporter [6]. These technologies include improved crop sorts, sustainable farming practices, and precision agriculture techniques. Furthermore, Brazil is making an investment in renewable power technologies, such as biofuels and solar electricity, to sell sustainable improvement and reduce its reliance on fossil fuels.

South Africa, the smallest of the BRICS countries, faces specific demanding situations related to inequality, poverty, and unemployment. Technology is visible as a key tool for addressing these challenges. The government is selling the development of an information-based economy thru investments in training, studies, and innovation [7]. Furthermore, South Africa is leveraging technology to enhance get entry to healthcare, training, and monetary offerings in underserved groups.

Beyond economic development, technology performs an important position in addressing social demanding situations within the BRICS nations. These international locations face problems including poverty, inequality, healthcare disparities, and environmental degradation. Technology gives modern solutions for tackling these demanding situations and improving the high-quality of lifestyles for their residents.

For example, telemedicine is getting used to extend healthcare access to remote and underserved communities in Brazil, Russia, and India [8. P; 19]. Mobile era and digital platforms are being applied to supply schooling and education programs to marginalized populations [9]. Accurate agricultural strategies are being implemented in Brazil and India [10. P;3] to improve agricultural productivity and food safety. In addition, renewable power technologies are being deployed to reduce carbon emissions and sell sustainable development in all BRICS countries [11. P;128].

The BRICS countries also recognize the geopolitical implications of technology. As technology becomes more and more imperative to monetary and navy power, the BRICS countries are in search of to beautify their technological autonomy and reduce their dependence on Western technologies. This choice for technological independence is pushed with the aid of concerns approximately countrywide safety, monetary competitiveness, and the capacity for technological dominance by means of other countries [12. P; 52].

China's efforts to broaden its own semiconductor enterprise and its investments in artificial intelligence are examples of this pursuit of technological autonomy. Russia's improvement of its very own internet infrastructure and its focus on cybersecurity also are pushed through similar worries. The BRICS nations also are exploring opportunities for technological cooperation among themselves, with the intention of sharing knowledge, developing joint projects, and reducing their reliance on outside resources of era.

The BRICS countries' emphasis on era has now not been without its challenges. These countries face boundaries such as insufficient infrastructure, skills gaps, regulatory hurdles, and limited get right of entry to funding. Furthermore, issues about information privateness, cybersecurity, and the ethical implications of latest technology want to be addressed. However, the BRICS nation is actively working to conquer the demand for those situations. They are improving infrastructure, expanding training and school programs, streamlining rules, and promoting public-individual partnerships to promote innovation. In addition, they are engaged

in global cooperation and dialogues to deal with the moral and social implications of the latest technology.

In conclusion, technology is an essential detail within the production of BRICS development rules. It serves as an essential driver of economic boom, a device for addressing social challenges, and a key component in shaping the geopolitical panorama. The BRICS countries are leveraging generation to enhance their financial competitiveness, improve the nice of lifestyles for his or her residents, and assert their have an effect on the worldwide level. Whereas they provide promising possibilities for future development for their discovery of technological advancement, their commitment to innovation and their desire to cooperate. Since BRICS country continues to spend money to promote technology and innovation, they are ready to play a more important role in shaping the future and the order of the global economic system.

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