Technological Innovation and Economic Growth: A Sectoral Analysis

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Abstract. This article explores the relationship between technological innovation and economic growth, focusing on specific industry sectors. We analyze how advancements in technology contribute to productivity increases and economic expansion. The study provides insights into the sectors that benefit most from technological innovation and suggests policy frameworks to foster growth.

Keywords: Technological Innovation, Economic Growth, Sectoral Analysis, Productivity, Policy Frameworks

Introduction

Technological innovation is a key driver of economic growth, impacting productivity and expansion across various sectors. This paper examines the role of technology in enhancing economic performance by conducting a sectoral analysis. We investigate how different industries leverage technological advancements to boost productivity and contribute to overall economic growth. By identifying sectors that benefit disproportionately from innovation, we provide recommendations for policy frameworks that can support sustainable growth.

References

1. Ola, M. H. Financing mix and Financial Performance: Evidence from listed Consumer and Industrial Goods Sector in Nigeria.
2. Babayev, F., Goncharenko, I., Mazur, H., Abdullaev, U., & Chernyaha, L. (2024). Investment Flows and Country Development in Emerging Markets: Analysing the Impact of Foreign Investment on Economic Growth. Theoretical and Practical Research in Economic Fields, 15(4), 894-908.

3. Babayev, F. (2020). GIDA SANAYİSİNDE YENİLİKÇİ GELİŞİM. In Econder 2020 3rd. International Economics, Business and Social Sciences Congress (p. 240).
4. Fikrat, B. F. (2023, January). THE ROLE OF AGRİCULTURE İN ENSURİNG ECONOMİC DEVELOPMENT. In Publisher. agency: Proceedings of the 1st International Scientific Conference «Research Retrieval and Academic Letters»(January 26-27, 2023). Warsaw, Poland (p. 73).
5. Авдеев, А. П. (2015). Макроэкономика.
6. Рагимов, Д. Р., & Джумшудов, С. Г. (2006). Пути и методы повышения экономико-экологической эффективности применения продуктов нефтегазовой промышленности на автомобильном транспорте. Ученые записки АзТУ,(3), 51-54.
7. Рагимов, Д. Р. О. (2010). ТЕХНИКО-ЭКОНОМИЧЕСКИЕ АСПЕКТЫ ЭФФЕКТИВНОСТИ ПРИМЕНЕНИЯ ГАЗОБАЛЛОННЫХ АВТОМОБИЛЕЙ. Вестник ИНЖЭКОНа. Серия: Экономика, (6), 409-412.
8. Рагимов, Д. Р. О. (2010). О подходе к технико-экономической и экологической эффективности применения газобаллонных автомобилей. Экономические стратегии, 12(11), 88-91.
9. оглу Рагимов, Э. Р., & оглу Искендерзаде, Э. Б. (2023). ЭФФЕКТИВНЫЕ МЕТРОЛОГИЧЕСКИЕ АСПЕКТЫ ПРИМЕНЕНИЯ НАНОТЕХНОЛОГИЧЕСКОЙ ПРОДУКЦИИ В ТРАНСПОРТНОЙ СФЕРЕ. Сетевое издание «Нефтегазовое дело», (1), 126-142.
10. Rahimov, E., Rahimov, C., & Davudova, S. A. Determining the optimal relationship between speed and acceleration of a vehicle to minimize pollutant emissions into the atmosphere.
11. Talibzade, O. A. (2023). Industry-based multiplier tables for cost of equity calculation (example of Azerbaijan). İqtisadi Artım Və İctimai Rifah, 4, 150–157.
12. Talibzadə, O. (2023). NATURE OF BUDGET PROCESS AND ANALYSIS OF BUDGET INDICATORS IN AZER-BAIJAN BANKING SYSTEM. Social and Technical Sciences Series, 3, 82–86.
13. Talibzade, O. (2022). Organization of expenses in budget management, enterprises and organizations. Geostrategy, 71 (5), 112–114.
14. Moraliyska, M. (2018). The EU cohesion policy's impact on regional economic development: The case of Bulgaria. Journal of Economic & Social Studies (JECOSS), (1).