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## A STUDY OF INNOVATION AND ECONOMIC GROWTH IN INDIA

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### **Abstract:**

Aim of this research is to examine the function of innovation in the financial increase of India. Research Methodology- This lookup defines innovation that consists of each manufacturing of progressive items and services, and the revolutionary system of producing items and services. World Bank's information financial institution is the important source of this study. Time collection facts have been used to learn about the variables. In this find out about to recognize the monetary growth, GDP increase Rate, GDP per capita boom Rate, and for Innovation R&D Expenditure, Education Spending rate, and Patent purposes variables have been used. Results- According to the end result as Indian economic system will develop monetary it will minimize the R&D Exp, it will limit the training spending, it will limit the FDI, and it will additionally limit the no of patent purposes filed in India. This bad correlation raises the questions to the coverage maker. These questions additionally open the door of future lookup in this field.

**Keyword-** Innovation and Economic, Growth in India, financial institution, GDP.

### **Introduction:**

The current records looks to exhibit us that innovation is one of the most vital elements for monetary growth. History explains us that financial boom was once continually an intention for human beings, for a society and for a nation. The ride of invention from wheel to web demonstrates how people are thriving in the direction of innovating new goods, new services, and new manufacturing manner as well. Innovation of new merchandise or manufacturing methods is fundamental to a country's long-term monetary boom and greater preferred of living. Today developed nations spending on lookup and improvement is greater than the growing and underdeveloped countries. That's the one of the predominant using pressure that makes developed nations greater developed and chief countries, compare to the different international locations these are the follower countries. To turn out to be a chief country, lengthy time period sustainable monetary boom is one of the most favored intentions for any country. A us of a can obtain this aim with the aid of growing the output of the country. GDP is the size of a international locations output in a given duration of time commonly it is one year.

Then he measured the increase in inputs (of capital and labor) over the identical time period. He then made what had been idea to be life like assumptions about how tons a increase in a unit of labor and how a lot a increase in a unit of capital need to add to the output of the economy. It grew to become out that the measured increase of inputs (i.e., in capital and labor) between 1870 and 1950 may want to solely account for





about 15% of the true boom in the output of the economy. In a statistical sense, then, there used to be an unexplained residual of no much less than eighty five percent (Nathan Rosenberg, OECD, 2004)

This look up paper pursuits to analyze the position of innovation in financial boom of India. It is challenging to measure the innovation however there are some variable that can provide an explanation for the innovation of a us of a like no. of patents, technological advance, spending in education. This lookup paper explains innovation by using inspecting no. of Patents software crammed in the time period, spending on education, and R&D spending. Because no. of. Patents filed helps innovation development, and maintain an economic system in the direction of innovating and growing productiveness and gain lengthy time period monetary growth. Also, if a use spending on training AND spending ON R&D will increase it will extend the labor productiveness ultimately. This lookup paper supposed to make some coverage advice that can assist lengthy time period sustainable increase of India.

An alternatively new factor which has no longer been dealt with in depth in economics literature is the function of technical requirements for financial growth, even though the significance of technological things to do as an fundamental determinant of the financial overall performance of industrialized economies is normally stated today. In contrast, the function of the patent device in financial boom obtained larger attention, starting with Nordhaus (1969). Blind, K., & Jungmittag, A. (2008). Ortiz-Villajos, J. M. (2009). Performed a quantitative evaluation on the relationship between science and monetary improvement of over twenty international locations from the opening of the nineteenth century until the stop of the twentieth century. He located an excessive correlation between patents and per capita earnings and approves the advantageous impact of technological innovation on financial development to be seen. Ortiz- Villajos, J. M. (2009).

However, it is hard to measure the innovation and its impact on the monetary growth. But no of patent rights and improved lookup and improvement spending can provide an explanation for the financial increase of the country. Bronwyn H. Hall, (2005) mentioned in his paper that has set up a number of records about adjustments in the patenting conduct of U. S. companies all through the past twenty years, some greater exactly and robustly than others. First, there is clear to the right-hand aspect variables. 15 proof of a structural shift to a greater boom charge in standard patenting in the United States between 1983 and 1984, one that is pushed for the most phase by means of U. S. firms, however with some contribution from Asia and Europe. Second, this shift is generally accounted for by way of corporations in the electrical and computing technological know-how sectors, though patenting by means of U.S. inventors has raised in all science classes. Although R&D has additionally accelerated in this sector, this can't give an explanation for the measurement of the extend in patenting.

Chen, M. X., & Iyigun, M. (2011) explored the hyperlink between the most beneficial patent size and monetary boom and locate that the equilibrium funding in technological know-how improvement and



therefore the predicted fee of technological growth showcase an inverted U-shape relationship with appreciate to the prison patent length. Chu, A. C. (2010) analyzed the results of patent coverage on increase and inequality; it developed a quality-ladder mannequin with wealth heterogeneity and elastic labor supply. The mannequin predicts that strengthening patent safety will increase (a) monetary boom through stimulating spending on lookup and improvement and (b) earnings inequality via elevating the return on assets. The boom of output relies upon no longer solely on productiveness growth, however additionally component accumulation. Some increase accounting research show that increase in bodily capital money owed for a giant share of the boom in output, even in developed countries.

### Aim of the Study

- 1) To examine the role of innovation in the economic growth of India.

### Research Methodology

This Research is examining the impact of innovation on financial boom of India. Time body of this paper is 20 years information from 2000 to 2020. The time framework for this evaluation is the decade of the 1990s. Because from a financial factor of view, this yr represents the upward shove of the so-called “New Economy”. Equally, the Canadian authorities (2002) describe the “New Economy” as “an Economy that is producing or intensively the use of progressive or new technologies.” 6 From this definition, one can without problems see that the significance of innovation in monetary increase of a country.

**TABLE NO 2: VARIABLES DESCRIPTIVE TATISTICS**

Descriptive Statistics	Variables					
	GDP growth	R&D Exp	Education	FDI	Unemployment	GDP per capita growth
Mean	7.03	0.75	3.49	1.35	4.03	5.30
Standard Error	0.57	0.01	0.13	0.21	0.07	0.58
Median	7.70	0.74	3.30	0.97	4.04	5.80
Standard Deviation	2.31	0.06	0.53	0.87	0.28	2.35
Sample Variance	5.35	0.00	0.28	0.76	0.08	5.56
Kurtosis	-1.46	-0.85	-1.17	1.01	-0.49	-1.43
Skewness	-0.28	-0.27	0.55	1.23	-0.56	-0.23
Range	6.45	0.21	1.51	3.08	0.90	6.73
Sum	112.50	12.01	55.89	21.72	64.50	84.81





*SOURCE: DATA FROM DATABASE: WORLD DEVELOPMENT INDICATORS WORLD BANK*

The R (.99) explains that there are robust high quality correlation between structured variable (GDP increase rate) and different unbiased variables used in the analysis. Lower P cost suggests the value of the model. However poor coefficients of the R&D Exp, Education, FDI, and Patent purposes are surprising. That potential if the Indian economy's monetary boom fee will expand it will reduce the R&D Exp, it will reduce the schooling spending, it will minimize the FDI, and it will minimize the no of patent functions filed in India. That looks unrealistic. All the above 4 variables supposed to be positive. I am accepting this mannequin due to the fact lower P fee capacity mannequin is significant. However this paper raises many questions.

### **The impact of a technological innovation**

Consider the electrification of factories. As lengthy as factories depended on steam as their important strength source, the business enterprise and design of things to do on the manufacturing unit ground had to be decided by using proximity to a single energy source: the steam engine. Each computer on the manufacturing facility floor, in turn, drew upon this energy supply thru a clumsy and extraordinarily wasteful transmission gadget of leather-based belts and pulleys. The introduction of electricity, with separate electric powered motors connected to every machine, allowed the format of work to be equipped in a a ways greater bendy and environment friendly way, relying on the sequence of things to do required via the wishes of the manufacturing method as an alternative than by way of the area of the steam engine. The parallels with the introduction of the laptop are obvious. But it is additionally applicable to factor out that financial historians have lately dedicated a top notch deal of interest to the electrification of American factories. The consensus of their research is that it took about forty years – from the Eighties to the Nineteen Twenties – earlier than the software of electric powered energy produced a measurable enlarge in manufacturing facility productivity. And one ought to additionally make a conceivable argument that the interface between human beings and computer systems is a ways greater complicated one than the interface between humans and electric powered power.

### **Conclusions**

Innovation is a key of a nation's monetary amplify and allocating money towards look up and enhancement and training can enhance prolonged time duration sustainable economic enlarge of India. India can be a chief county as a replacement of a follower united states of the United States by means of skill of developing the innovation. To obtain this intention critical focal factor ought to be larger coaching spending and R&D spending that will lengthen the productiveness of India in future. But this search for paper model's give up end result is now no longer as expected. Result explains that India's increase is now not pushed via innovation as it is the case for many developed economies. According to the cease end result as Indian monetary device will increase economic it will restriction the R&D Exp, it will restrict the education spending, it will minimize the FDI, and it will moreover limit the no of patent functions filed in India. That raises the question is this monetary amplify will be sustainable or absolutely a temporary phenomenon.



**References:**

- Blind, K., & Jungmittag, A. (2008). The impact of patents and standards on macroeconomic growth: a panel approach covering four countries and 12 sectors. *Journal of Productivity Analysis*, 29(1), 51-60. <https://doi.org/10.1007/s11123-007-0060-8>
- Chen, M. X., & Iyigun, M. (2011). Patent Protection and Strategic Delays in Technology Development: Implications for Economic Growth. *Southern Economic Journal*, 78(1), 211-232. <https://doi.org/10.4284/0038-4038-78.1.211>
- Chu, A. C. (2010). Effects of Patent Policy on Income and Consumption Inequality in a R&D Growth Model. *Southern Economic Journal*, 77(2), 336-350. <https://doi.org/10.4284/sej.2010.77.2.336>
- DeLong, J. B., & Summers, L. H. (2001). The 'new economy': background, historical perspective, questions, and speculations. *Economic Review-Federal Reserve Bank of Kansas City*, 86(4), 29.
- Hu, A. G., & Png, I. (2013). Patent rights and economic growth: evidence from cross-country panels of manufacturing industries. *Oxford Economic Papers*, 65(3), 675-698. <https://doi.org/10.1093/oep/gpt011>
- Nathan Rosenberg, (OECD, 2004) *Innovation and Economic Growth*.
- Ortiz-Villajos, J. M. (2009). Patents and Economic Growth in the Long Term. A Quantitative Approach. *Brussels Economic Review*, 52(3/4), 305-340.
- William D. Nordhaus, *The American Economic Review*, Vol. 59, No. 2, Papers and Proceedings of the Eighty-first Annual Meeting of the American Economic Association. (May, 1969), pp. 18-28.