



# FDI AND SUSTAINABLE ECONOMIC GROWTH: TRENDS IN INDIA (1991–2023)

Aditi Shreya<sup>1</sup>, Prof. (Dr.) Anwar Khurshid Khan<sup>2</sup>

<sup>1</sup>Research Scholar, P.G. Department of Commerce, Magadh University, Bodh-Gaya, Gaya, Bihar

<sup>2</sup>Head & Dean, P.G. Department of Commerce, Magadh University, Bodh-Gaya, Gaya, Bihar

## Abstract

*This study explores the long-term relationship between Foreign Direct Investment (FDI) and key macroeconomic indicators in India from 1991 to 2023, a period marked by structural reforms and progressive liberalization. Using secondary data and descriptive statistical methods, the research examines how FDI inflows have influenced GDP growth, income per capita, gross national income, trade performance, gross domestic savings, and foreign exchange reserves. The results reveal a consistent upward trend in all indicators alongside rising FDI inflows, with strong Compound Annual Growth Rates (CAGR) and high correlation coefficients most notably with GDP per capita, savings, and exports. The findings suggest that FDI has not only supported quantitative economic expansion but has also contributed to structural transformation, productivity enhancement, and financial resilience. However, the benefits have not been uniformly distributed, raising questions about inclusivity and regional equity. The study highlights the need for targeted policies to diversify FDI flows, promote green investment, and ensure alignment with sustainable development goals. These insights offer valuable direction for policymakers aiming to optimize the long-term developmental impact of foreign capital in India.*

**Keywords:** Foreign Direct Investment (FDI), Sustainable Economic Growth, GDP, Trade, GNI,

## 1. Introduction

The economic history of post-independent India underwent a major transformation in 1991 when a severe balance of payments crisis compelled the government to initiate a series of structural reforms. These reforms signaled a decisive shift from a closed, state-controlled economy to a more liberalized and globally integrated economic system. Central to these reforms was the strategic emphasis on attracting Foreign Direct Investment (FDI) a policy pivot aimed at compensating for the domestic savings-investment gap, infusing advanced technology, fostering global competitiveness, and accelerating industrial modernization. Since then, FDI has been progressively liberalized in India, evolving into a cornerstone of its economic strategy. Policymakers have increasingly recognized FDI not merely as a supplement to domestic capital but as a powerful mechanism for transferring knowledge, enhancing human capital, improving infrastructure, and facilitating integration into global value chains.

As a result, India has emerged as one of the most attractive destinations for foreign investors among emerging economies, often ranking among the top recipients of FDI inflows globally. However, in

contemporary discourse, economic growth is no longer assessed solely in terms of rising GDP or investment inflows. The concept of sustainable economic growth that is socially inclusive, environmentally sound, and economically resilient has taken center stage. This shift is particularly significant for a country like India, where development challenges such as rural poverty, environmental degradation, regional disparities, and employment volatility persist despite robust macroeconomic performance.

In this context, a nuanced analysis of the relationship between FDI and India's sustainable development trajectory becomes crucial. FDI inflows may contribute to growth, but whether that growth translates into broad-based human development, regional equity, long-term employment, and environmental sustainability remains an empirical question. Moreover, while FDI has driven sectoral modernization in services, telecom, and information technology, its impact on core sectors like manufacturing, agriculture, and rural industries has been mixed and warrants deeper scrutiny. The present study addresses this critical gap by conducting a longitudinal assessment of FDI trends and their alignment with India's macroeconomic development indicators from 1991 to 2023. By leveraging extensive secondary data on variables such as GDP, GDP per capita, Gross National Income (GNI), exports and imports of goods, gross domestic savings, and foreign exchange reserves, this research aims to identify structural patterns, causative linkages, and developmental implications of FDI over three decades.

### 1.1 Research Objectives

1. To analyze the trends and fluctuations in FDI inflows in India between 1991 and 2023, highlighting periods of significant policy reform, global economic crises, and shifts in investor sentiment.
2. To evaluate the long-term relationship between FDI inflows and India's macroeconomic performance, with specific focus on GDP growth, income per capita, and GNI—indicators that reflect both economic scale and welfare outcomes.
3. To assess the extent to which FDI has contributed to sustainable economic development by examining its correlations with trade expansion (exports and imports), domestic savings capacity, and accumulation of foreign exchange reserves.
4. To explore sectoral and temporal imbalances in FDI deployment, and to identify areas where policy recalibration is necessary to ensure that FDI contributes to inclusive, equitable, and resilient growth.

This research contributes to the broader academic and policy discourse by offering a comprehensive, data-driven narrative of India's development through the lens of foreign investment. It is hoped that the findings will not only enrich theoretical understanding but also offer actionable insights for policymakers striving to optimize FDI's role in India's sustainable development goals (SDGs).

## 2. Review Of Literature

The relationship between Foreign Direct Investment (FDI) and economic growth has been a subject of extensive scholarly inquiry for decades. Theoretical and empirical studies have explored the various channels through which FDI influences host economies, ranging from capital formation and technological diffusion to trade enhancement, employment generation, and institutional strengthening. However, the nature and magnitude of this relationship often vary based on the structural characteristics of the recipient country, the sectoral distribution of FDI, and the prevailing policy environment.

Huang et al. (1999) laid the foundation for understanding the long-term impact of FDI on structural transformation in emerging economies. Their study emphasized the importance of technological spillovers and industrial upgrading facilitated by foreign capital. Similarly, Tang (2005) highlighted the role of FDI in enhancing productivity and innovation by introducing new managerial practices and technological know-how, thereby contributing to sustained growth. In the context of India, Sanjo (2012) explored how FDI has supported industrial modernization by strengthening infrastructure and enabling the transfer of global best practices. The study noted that FDI has helped modernize transportation, energy, and communication networks, all of which are vital for enabling sustainable economic development.

Hossain (2007) focused on the socio-economic outcomes of FDI, emphasizing its potential to create employment and improve workforce skills. The study found that FDI positively influences human capital formation, especially in the services and manufacturing sectors, making it a key driver of inclusive growth. Gamso and Grosse (2021) advanced this perspective by showing how FDI contributes to skill upgrading, productivity enhancement, and institutional improvements, thereby reinforcing long-term development objectives. Further, Mukim and Panagariya (2012) provided sector-specific insights by examining how FDI interacts with India's productivity levels and regional disparities. They argued that while FDI has bolstered growth in urban industrial clusters, its penetration in rural and backward regions remains limited, thereby raising concerns about spatial inequality in development benefits. Batra and Beladi (2008) examined the dual impact of FDI on economic and trade performance, observing that FDI inflows often lead to enhanced exports, especially in high-value sectors. However, they also warned about the risks of trade dependency and the crowding out of domestic firms in highly liberalized sectors. Studies by Jayachandran and Seilan (2010) and Kumar et al. (2022) specifically focused on India's FDI trajectory, analyzing its correlation with GDP growth, savings rates, and employment trends. These studies consistently found a positive association between FDI and macroeconomic performance, though they emphasized the need for regulatory reforms to maximize the developmental potential of such investments.

From a sustainability standpoint, Pulicherla et al. (2022) and Ali (2022) underscored the importance of directing FDI into green growth sectors such as renewable energy, sustainable manufacturing, and inclusive infrastructure. Their work aligns with global sustainable development goals, calling for policy frameworks that not only attract FDI but also ensure its alignment with long-term environmental and social priorities. Moreover, Dwyer (2022) highlighted the role of FDI in tourism and service sectors, arguing that foreign capital in these industries can generate multiplier effects in job creation, entrepreneurship, and rural development. However, he cautioned that the benefits are often concentrated in select regions unless equitable distribution mechanisms are enforced.

In summary, existing literature strongly affirms the positive association between FDI and economic growth, but it also calls attention to the qualitative dimensions of this growth. The consensus is shifting toward evaluating not just the volume of FDI inflows but also their alignment with sustainable, inclusive, and regionally balanced development. This growing emphasis underscores the need for country-specific studies like the present one, which contextualizes FDI's role in India's evolving economic landscape over a three-decade period.

### 3. Methodology

This study adopts a quantitative approach using secondary data to examine the relationship between Foreign Direct Investment (FDI) and sustainable economic growth in India from 1991 to 2023. Key macroeconomic indicators analyzed include FDI net inflows, GDP, GDP per capita, GNI, trade (exports and imports), gross domestic savings, and foreign exchange reserves. Data has been sourced from credible institutions such as the World Bank, RBI, UNCTAD, and India's Ministry of Commerce and Industry.

The research applies descriptive statistics and trend analysis to observe year-wise changes and growth patterns. Compound Annual Growth Rate (CAGR) is used to measure long-term growth, and correlation analysis helps assess the strength of association between FDI and other economic variables. The study interprets these results in the context of sustainable development, focusing on financial stability, investment trends, and trade performance. While causality is not established, the analysis offers valuable insights into how FDI has influenced India's economic trajectory over three decades.



#### 4. Results

The empirical analysis of India's key macroeconomic indicators from 1991 to 2023 reveals a clear and consistent correlation between rising FDI inflows and the country's economic growth trajectory. Following the liberalization reforms of 1991, FDI inflows began to steadily increase from just USD 73 million in 1991 to a historic peak of USD 64.36 billion in 2020. Although these inflows moderated in subsequent years, they remained substantial, reflecting India's sustained attractiveness as a global investment destination due to structural reforms, demographic advantage, and market scale.

**Table 4.1:** Key Economic Indicators of India (1991–2023) in Million USD

| Year | FDI Net Inflow | GDP     | GDP Per Capita (USD) | GNI     | Goods Exports | Goods Imports | Gross Domestic Savings | Reserves |
|------|----------------|---------|----------------------|---------|---------------|---------------|------------------------|----------|
| 1991 | 73             | 270105  | 305                  | 265995  | 18094         | 229304        | 59161                  | 234      |
| 1992 | 276            | 288208  | 319                  | 283798  | 20019         | 24108         | 67269                  | 1070     |
| 1993 | 550            | 279295  | 302                  | 275444  | 22015         | 29672         | 65762                  | 4211     |
| 1994 | 973            | 327274  | 347                  | 323107  | 25522         | 37957         | 80913                  | 10390    |
| 1995 | 2143           | 360281  | 375                  | 356252  | 31238         | 43788         | 92806                  | 733      |
| 1996 | 2426           | 392896  | 401                  | 389211  | 33737         | 45730         | 98671                  | 3957     |
| 1997 | 3577           | 415867  | 416                  | 412313  | 35702         | 44827         | 104214                 | 5321     |
| 1998 | 2634           | 421351  | 413                  | 417792  | 34075         | 45556         | 102309                 | 3070     |
| 1999 | 2168           | 458821  | 441                  | 455260  | 36877         | 53887         | 109268                 | 6663     |
| 2000 | 3584           | 468395  | 442                  | 463419  | 43246         | 51212         | 113881                 | 6067     |
| 2001 | 5128           | 485440  | 450                  | 481232  | 44793         | 54702         | 116950                 | 8693     |
| 2002 | 5208           | 514939  | 469                  | 511491  | 51141         | 68081         | 132114                 | 18854    |
| 2003 | 3681           | 607700  | 544                  | 603194  | 60893         | 95539         | 167847                 | 26221    |
| 2004 | 5429           | 709152  | 624                  | 704172  | 77921         | 134692        | 221565                 | 23649    |
| 2005 | 7269           | 820383  | 710                  | 814484  | 102403        | 166571        | 264615                 | 14554    |
| 2006 | 20029          | 940259  | 801                  | 932915  | 123876        | 208610        | 320511                 | 29169    |
| 2007 | 25227          | 1216736 | 1021                 | 121164  | 153529        | 323916        | 418282                 | 87488    |
| 2008 | 43406          | 1198895 | 992                  | 1191736 | 199065        | 275227        | 393054                 | 25372    |
| 2009 | 35581          | 1341888 | 1094                 | 1333878 | 167957        | 360146        | 437193                 | 17035    |
| 2010 | 27396          | 1675615 | 1347                 | 1657660 | 230967        | 475304        | 574192                 | 14126    |
| 2011 | 36498          | 1823051 | 1445                 | 1807020 | 307847        | 499988        | 596289                 | 4138     |
| 2012 | 23995          | 1827637 | 1429                 | 1806177 | 298320        | 481686        | 600473                 | 4022     |
| 2013 | 28153          | 1856721 | 1432                 | 1833600 | 319109        | 472434        | 595247                 | 10928    |
| 2014 | 34576          | 2039126 | 1553                 | 2015014 | 328386        | 409236        | 640926                 | 37583    |
| 2015 | 44009          | 2103588 | 1584                 | 2079182 | 272352        | 376090        | 642949                 | 44065    |
| 2016 | 44458          | 2294796 | 1707                 | 2268496 | 268614        | 452241        | 697530                 | 15739    |
| 2017 | 39966          | 2651474 | 1950                 | 2622801 | 304106        | 518778        | 808902                 | 37070    |
| 2018 | 42117          | 2702929 | 1966                 | 2673994 | 332086        | 488949        | 807864                 | 3778     |
| 2019 | 50610          | 2835606 | 2041                 | 2808367 | 331271        | 376995        | 796409                 | 55767    |
| 2020 | 64362          | 2674851 | 1907                 | 2638922 | 281545        | 579145        | 729951                 | 103853   |
| 2021 | 44727          | 3167270 | 2239                 | 3129982 | 402424        | 725459        | 904991                 | 67063    |
| 2022 | 49940          | 3353470 | 2352                 | 3307391 | 458271        | 681110        | 951111                 | 30610    |
| 2023 | 28078          | 3567551 | 2480                 | 3515454 | 435637        | 715459        | 1044111                | 38216    |

Source: <https://databank.worldbank.org/source/world-development-indicators>

In parallel, India's GDP expanded remarkably from ₹270,105 crore in 1991 to over ₹35, 67,551 crore in 2023. This robust growth in output was accompanied by a rise in GDP per capita from USD 305 to

USD 2,480 over the same period, suggesting significant improvements in income levels and overall economic welfare. Gross National Income (GNI) followed a similar upward trend, growing from ₹265,995 crore to ₹35, 15,454 crore, indicating comprehensive national income growth facilitated by productive capacity, investment, and sectoral diversification.

Trade performance exhibited strong growth as well, with goods exports increasing from USD 18.09 billion in 1991 to USD 435.64 billion in 2023. Imports, while higher, reflected India's rising demand for industrial inputs, technology, and consumer goods, underscoring the economy's growing integration into global value chains. The expansion of both exports and imports demonstrates the catalytic role of FDI in enhancing trade competitiveness and enabling global market access. Simultaneously, gross domestic savings rose significantly from ₹59,161 crore in 1991 to ₹10,44,111 crore in 2023. This increase reflects improved income generation, financial inclusion, and domestic capital accumulation factors critical to sustainable economic development. The upward trend in both FDI and domestic savings suggests a reinforcing cycle of capital formation supporting long-term investment.

One of the most notable indicators of economic resilience foreign exchange reserves increased dramatically from just USD 0.23 billion in 1991 to over USD 103 billion in 2020, before adjusting moderately in recent years. This sharp rise in reserves has strengthened India's external stability, enhanced its creditworthiness, and enabled the economy to buffer global shocks more effectively.

**Table 4.2: CAGR and Correlation of Key Economic Indicators with FDI (1991–2023)**

| Indicator                     | CAGR (%) | Correlation with FDI |
|-------------------------------|----------|----------------------|
| GDP (₹ Cr)                    | 8.40%    | 0.88                 |
| GDP Per Capita (USD)          | 6.77%    | 0.89                 |
| GNI (₹ Cr)                    | 8.40%    | 0.86                 |
| Goods Exports (USD Billion)   | 10.45%   | 0.87                 |
| Gross Domestic Savings (₹ Cr) | 9.39%    | 0.89                 |

The time-series analysis of India's macroeconomic indicators from 1991 to 2023 highlights (Table 4.2) the significant and consistent influence of Foreign Direct Investment (FDI) on the country's economic development. FDI inflows increased from USD 73 million in 1991 to a record high of USD 64.36 billion in 2020, reflecting India's liberal investment climate, policy reforms, and rising investor confidence. Simultaneously, India's GDP expanded from ₹270,105 crore to over ₹35.6 lakh crore during the same period, recording a CAGR of 8.40%. The growth was accompanied by a rise in GDP per capita, which increased from USD 305 to USD 2,480 at a CAGR of 6.77%, reflecting broader income gains. Similarly, Gross National Income (GNI) followed a parallel growth path, also recording a CAGR of 8.40%, indicative of consistent national productivity expansion. India's external sector also grew rapidly. Goods exports surged from USD 18.09 billion to USD 435.64 billion, achieving the highest CAGR among all indicators at 10.45%. Imports grew substantially as well, demonstrating India's deeper integration into global trade networks. This growth was strongly associated with increased FDI, which facilitated technology transfer, boosted production capacity, and opened global market access. Gross domestic savings rose from ₹59,161 crore to ₹10.44 lakh crore, reflecting a CAGR of 9.39%, pointing to improved income levels, financial inclusion, and capital accumulation within the domestic economy. The rise in savings complements FDI, indicating a balanced capital structure supported by both domestic and foreign investments.

Crucially, correlation analysis reveals a strong positive relationship between FDI and key economic indicators. The correlation coefficient between FDI and GDP is 0.88, and for GDP per capita it is 0.89, suggesting that increases in FDI are closely aligned with economic expansion. Similarly, FDI correlates strongly with goods exports (0.87), GNI (0.86), and gross domestic savings (0.89), emphasizing its foundational role in driving both internal and external development dimensions.

Additionally, foreign exchange reserves, a critical indicator of economic resilience, increased from USD 0.23 billion in 1991 to over USD 103 billion in 2020, strengthening India's external stability. Though not included in the correlation table due to data variability, reserves clearly reflect the cumulative effect of

FDI inflows and trade surpluses during high-growth periods. Overall, the results demonstrate that FDI has not only expanded in volume but has also maintained a strong, positive, and sustained influence on India's macroeconomic indicators. Its impact is evident in output growth, income enhancement, trade performance, savings mobilization, and external sector stability confirming its strategic role in supporting India's path to sustainable and inclusive economic development.

## 5. Discussion

The empirical findings derived from the time-series analysis of macroeconomic indicators clearly underscore the transformative role of Foreign Direct Investment (FDI) in India's economic development over the period 1991 to 2023. The sustained growth in GDP, income levels, trade volumes, savings, and foreign exchange reserves has occurred alongside a parallel increase in FDI inflows, suggesting a close alignment between foreign capital infusion and macroeconomic strengthening.

The CAGR analysis reveals significant long-term progress across all selected indicators. The highest CAGR of 10.45% in goods exports reflects India's growing trade integration and the catalytic role of FDI in enhancing export capacity, especially in high-performing sectors such as information technology, pharmaceuticals, and textiles. Likewise, the CAGRs of 8.40% for GDP and GNI confirm that FDI has consistently supported national output and income generation, fueling both production and consumption-based growth. The 6.77% CAGR in GDP per capita suggests steady improvement in living standards, though slightly slower than overall GDP, indicating that income growth may not be evenly distributed across all segments of the population. Additionally, the CAGR of 9.39% in gross domestic savings is particularly notable, reflecting increased income levels, rising financial inclusion, and enhanced internal capital formation. The growth in savings complements the rise in FDI, providing a dual framework for investment-led development. This duality has allowed the Indian economy to simultaneously leverage external capital while building strong domestic financial buffers.

The correlation analysis further reinforces the interconnectedness of FDI with India's economic advancement. The highest correlation coefficients—0.89 with both GDP per capita and GDS suggest that FDI has played a major role not only in raising incomes but also in strengthening the financial capacity of households and institutions. Similarly, strong positive correlations with GDP (0.88), exports (0.87), and GNI (0.86) indicate that FDI is positively associated with output growth, trade expansion, and income creation. These results demonstrate that FDI has contributed holistically to the Indian economy, not only by injecting capital but also by enabling technology transfer, employment generation, and market diversification. However, while the results reflect a clear and positive association, it is also important to recognize that correlation does not imply causation. The effectiveness of FDI in driving sustainable growth depends heavily on policy frameworks, sectoral priorities, absorptive capacities of domestic industries, and the ability to ensure equitable distribution of gains. In this context, the consistent upward trends in GDP and savings, coupled with the high correlation with FDI, suggest that India has, to a large extent, succeeded in channelizing foreign investment toward productive and growth-oriented sectors.

## 6. Conclusion

This study provides a comprehensive analysis of the long-term relationship between Foreign Direct Investment (FDI) and key macroeconomic indicators of India over the period 1991 to 2023. The findings clearly demonstrate that FDI has been a significant contributor to India's economic growth, not only by supplementing domestic capital but also by fostering technological advancement, enhancing trade competitiveness, and strengthening financial resilience. The data reveals a consistent rise in GDP, GDP per capita, GNI, exports, gross domestic savings, and foreign exchange reserves alongside the steady increase in FDI inflows. The high Compound Annual Growth Rates (CAGR) across these indicators reflect sustained progress in output, income, trade, and capital formation.

Moreover, the strong positive correlations between FDI and these macroeconomic variables highlight the strategic role foreign investment has played in supporting India's development journey. Importantly, the study confirms that FDI has contributed not merely to economic expansion in quantitative



terms, but also to structural transformation facilitating shifts towards a more globally integrated, capital-rich, and diversified economy. While the overall impact has been positive, the quality and distribution of growth remain key considerations for ensuring that the benefits of FDI are equitably realized across sectors and regions. Looking ahead, sustaining this growth trajectory will require continued policy support for investment facilitation, improved ease of doing business, and targeted reforms to direct FDI toward underdeveloped sectors such as agriculture, rural infrastructure, and green technologies. Furthermore, ensuring that FDI complements domestic capacity building, supports employment, and aligns with inclusive development objectives will be crucial to achieving long-term economic sustainability.

## 7. Suggestions

Based on the findings and analysis of the study, the following suggestions are proposed to enhance the role of FDI in promoting sustainable and inclusive economic growth in India:

1. **Promote Sectoral Diversification of FDI:** While FDI has significantly benefited the services and manufacturing sectors, its flow into agriculture, rural industries, and infrastructure remains limited. Policymakers should encourage FDI in underdeveloped sectors through targeted incentives, public-private partnerships, and investment-friendly frameworks.
2. **Strengthen Regional Equity in FDI Distribution:** FDI inflows are often concentrated in urban and industrialized states. There is a need to create enabling environments in less-developed regions by improving infrastructure, governance, and access to markets, thereby ensuring more balanced regional development.
3. **Link FDI with Employment Generation and Skill Development:** To enhance the socio-economic impact of FDI, investments should be aligned with employment-intensive sectors and linked with vocational training and capacity-building initiatives. This will help convert capital inflows into direct livelihood opportunities for India's growing workforce.
4. **Ensure Technological Spillovers and Domestic Linkages:** Regulatory policies should encourage foreign firms to collaborate with local enterprises, share technologies, and develop backward and forward linkages within the domestic economy. This will amplify productivity gains and innovation diffusion across sectors.
5. **Maintain Policy Stability and Transparency:** A predictable and transparent policy regime is essential for sustaining investor confidence. Continuous reforms in taxation, contract enforcement, ease of doing business, and digital governance will make India a more attractive and secure destination for long-term foreign investment.
6. **Align FDI with Sustainable Development Goals (SDGs):** Government should promote "green FDI" in areas such as renewable energy, sustainable agriculture, and climate-resilient infrastructure. Integrating FDI policies with environmental and social safeguards will ensure that investment-led growth does not compromise ecological or equity considerations.
7. **Monitor and Evaluate FDI Outcomes Regularly:** Establishing mechanisms for ongoing assessment of the economic, social, and environmental outcomes of FDI will help in fine-tuning policies. Data-driven evaluations can ensure that investments remain aligned with national development priorities.

These suggestions aim to guide policymakers, regulators, and development planners in harnessing the full potential of FDI for driving sustainable, inclusive, and regionally balanced economic growth in India.

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