

Pages: 75 – 86 | Volume: 4 | Issue: 1 (Winter 2025) | ISSN (Online): 3006-8428 | DOI: 10.63062/trt/WR25.058

Financial Development and Sustainable Development: Evidence from Asia

Sidra Waheed ¹ Ammara Mubashar ² Shoaib Ghulam ³ Nayab Fatima ⁴ Shahzad Hussain ⁵

ABSTRACT: The objective of this research is to forecast sustainable development within South Asian countries from 2009 to 2021. Employing endogenous theory, the study examines how financial development facilitates sustainable economic development through trade, foreign direct investment (FDI), and tourism. The ordinary least squares (OLS) regression method is utilized to analyze this relationship. This research underlines the essential role of robust financial institutions and sound regulation in promoting financial growth to achieve sustainable economic growth and builds on current understandings of the intricate connection between these factors. The study explores the relationship between financial growth and sustainable development in South Asian countries. The conclusions drawn from the analysis highlight the synergy between economic sustainability and environmental well-being. By aligning the financial sector with sustainable development goals, the region could lay the groundwork for enduring economic stability and enhance living standards. Important lessons about fostering sustainable economic growth and formulating effective policies could be gleaned from this investigation by policymakers and practitioners. The findings also have implications for the environment.

KEYWORDS: Sustainable Development, Financial Development, South Asian Countries, Trade, Foreign Direct Investment (FDI), OLS Regression Method ¹ MS Scholar, Department of Accounting and Finance, International Islamic University Islamabad, Pakistan. Email: <u>sidra.msaf000388@student.iiu.edu.pk</u>

² Assistant Professor, Department of Business Administration, Fatima Jinnah Women University, Rawalpindi, Punjab, Pakistan. Email: ammara.mubashar@fiwu.edu.pk

³ Lecturer, Faculty of Management Sciences, NUML, Rawalpindi Campus, Punjab, Pakistan. Email: <u>Shoaib.ghulam@numl.edu.pk</u>

⁴ MS Scholar, Department of Business Administration, Rawalpindi Women University (RWU), Rawalpindi, Punjab, Pakistan. Email: <u>fatimaimr44n@gmail.com</u>

⁵ Assistant Professor, Department of Business Administration, Rawalpindi Women University (RWU), Rawalpindi, Punjab, Pakistan. Email: <u>shahzadhussainpeace@gmail.com</u>

Corresponding Author: Shoaib Ghulam ⊠ Shoaib.ghulam@numl.edu.pk

Introduction

Lately, the connection between financial development and sustainable economic growth has come under inspection owing to its relevance to economic stability and prosperity. Financial development encompasses the increasing sophistication of financial institutions, markets, and tools, the key components needed to promote stability and economic growth. The aim of achieving sustainable economic growth is to raise GDP while also ensuring social equity, the protection of the environment, and the well-being of future generations. It is necessary to understand the linkage between financial development and economic growth for a given country's economic health in the long term.

Numerous studies have been carried out on the correlation between economic development and financial development. According to Beck and Levine (2003), developed financial systems lead to improved investment

resources, allocation, and technological improvement which results in increased economic growth. Beck, Levine, and Loayza (2000) posit that there is a positive relationship between financial development and economic growth in countries that have good legal and regulatory policies. Moreover, the potential of financial development in promoting environmentally sustainable development is gaining attention. Markets and financial institutions can promote green technology, encourage environmentally responsible business practices, and help make it easier to finance sustainable initiatives. For instance, Batten, Sowerbutts, and Tanaka (2016) emphasize the importance of green finance in supporting the transition to a low-carbon economy and contributing to environmental sustainability.

Financial development significantly influences key dimensions of social sustainability, including poverty reduction, income distribution, and financial inclusion. Enhanced access to financial services and well-designed financial systems can fundamentally transform individuals' economic opportunities and living conditions. Empirical evidence from Demirgüç-Kunt and Klapper (2012) demonstrates a robust correlation between expanded financial access and diminished income inequality and poverty levels. Furthermore, research on microfinance interventions by Armendariz and Morduch (2009) illustrates the transformative potential of financial development in advancing financial inclusion and strengthening historically underserved populations.

Recent literature stresses the central function of financial development in sustaining economic growth via effective mechanisms of financial intermediation, which enhance the optimum allocation of capital to productive units. As evident from the examples of Cihák, et al., (2012), better access to financial services and products, especially among excluded segments of the population, improves economic resilience. Financial development shows powerful linkages with the key economic aggregates, such as per capita income growth, improvement in productivity, and human capital accumulation.

Nonetheless, the measurement of financial development poses serious methodological issues, requiring the examination of various dimensions such as depth of financial system, intensity of market competition, and effectiveness of the regulatory framework. Additionally, a thorough analysis needs to take into account the wider implications of financial development on socioeconomic inequalities, institutional resilience, and environmental sustainability. Bank (2018) presents empirical evidence that financial inclusion leads to lower income inequalities, improved economic resilience, and long-term macroeconomic stability.

This study intends to investigate the relationship between financial development and long-term economic growth from all angles. It will examine the ways that improved access to capital, stimulated investment, and effective resource allocation are just a few of the ways that financial development supports economic growth. The current study analyzes the enhancement of financial frameworks in order to determine financial development in emerging countries. While applying endogenous growth theory, the present study demonstrates how FDI positively affects economic growth. Moreover, the objective of this study is to examine the impact of certain growth parameters that belong to the financial sector while critically emphasizing the positive role of FDI.

Furthermore, the study examines the role of trade in fostering enduring economic growth through innovation, human capital, information dissemination, and technology transfers and productivity.

To analyze the relationship between tourism and sustainable economic growth, endogenous growth theory will support which suggests that sustainable growth can conveniently achieved by promoting tourism.

Since tourism generates employment opportunities, and create linkages with other commercial sectors, promote innovation, improvement in infrastructural components and entrepreneurship. This research aims to contribute to the understanding of how financial systems can be leveraged for sustainable development. After analyzing these different aspects of financial development, we explore their effects on sustainable economic growth.

The role of financial development in advancing sustainable economic growth is unclear. To delve into this area, this study examines how financial development impacts sustainable economic growth, utilizing trade, foreign direct investment (FDI), and tourism as control variables. Financial growth comprises several macroeconomic and finance systems. Sustainable economic development, conversely, involves long-term growth that ensures present and future prosperity. However, research on the link between financial development and sustainability shows contradictory results. The stability of financial systems is crucial in determining the sustainability of economic growth over time. Evaluating this relationship requires consideration of several factors. There are many components that make up sustainable economic development, including the necessity to balance trade-offs between financial growth and environmental concerns. Understanding these dynamics is essential for policymakers aiming to craft effective policies. The connection between economic growth and financial development is essential. While the results of past studies differ, they underline the importance of systemic stability in financial development. Such stability impacts not only economic factors but also human elements. It is essential that decision-makers focus on these interlinkages, creating a more stable and inclusive economy.

Some studies support strong government policies for economic growth. However, others argue that the expansion of the financial sector may harm sustainability by causing instability, income disparity, and environmental damage. This study aims to examine financial capital and sustainable economic growth by including trade, FDI, and tourism as control variables. By doing so, the research endeavors to reveal the mechanisms through which the financial sector affects sustainability and the impact of financial development on sustainability. Economists, policymakers, and investors will find the results valuable, as developing countries confront a daunting task in implementing policies that promote economic growth. They must balance growth with environmental and social sustainability to establish successful outcomes. The study's insights could guide important decisions in this area. The influence of financial development on sustainability is complex, but understanding these relationships is critical for ensuring that sustainability in this complex interaction can be achieved. This research not only focuses on the direct impacts but also considers broader implications for sustainability in the economic context. https://app.aidetectplus.com/app/detect-humanize-aicontent

Literature Review

This literature review examines the co-alignment among financial development, economic stability and sustainable growth. Financial expansion is commonly considered crucial for stimulating economic stability, poverty eradication, and advancing commerce. Financial development also lies at the nexus of sustainable development, which seeks to achieve economic stability while simultaneously addressing societal and environmental challenges.

Several economic indicators show that economic stability and financial progress have a positive correlation. Economic accessibility stimulates investment, innovation, and competitiveness—all of which are vital to economic growth." Moreover, a sound financial system mitigates inequality, and alleviates poverty, and Stability and Growth. In addition, financial development allows investment in R&D, green technology, and private sector efforts that drive environmental priorities. Additionally, social sustainability demands economic activity that creates value for all, especially those who are most disadvantaged. The financial and sustainability spheres can help each other achieve sustainable growth.

The relationship between financial development and economic growth has been one of the most described Various perspectives regarding the relationship between financial development and economic growth have been the subject of several researches. For instance, empirical evidence indicates that financial development impacts economic growth positively, particularly in developing countries. Many economic factors, such as urban population, energy demand, foreign investment inflow commerce, tourism, etc., have also been studied related to the country's economic growth and CO2 emissions. The findings suggest that tourism and foreign direct investment (FDI) reduce energy consumption while promoting trade openness and GDP growth. Specific case studies have also been pitched to elucidate the relationship between financial growth and economic stability in various countries. For instance, a study on the financial development of Pakistan found that it had both positive and negative impacts on economic growth and stability.

Similar studies have shed light on the link between financial development and economic growth in nations like Sri Lanka, Korea, Thailand, and India, emphasizing the importance of variables like investment ratios, trade, and lending to the private sector.

Ramzan, Sheng, Shahbaz, Song, and Jiao (2019) suggested that by adding the degree of total factor productivity, or TFP, development as an additional criterion for measuring a country's trade integration on the basis that the different openness measures cannot adequately capture the nature of trade openness. The 35-year, equally split sample of 82 nations used in the empirical application covers the years 1980 to 2014. The GMM estimator was created to deal with the potential endogeneity issue in dynamic panel data models. The findings reveal an intriguing non-linear connection between the openness to trade and the advancement of GDP when the TFP level of progress is considered as a contributing factor: trade may negatively impact GDP growth while countries specialize in low-TFP development level; trade willingness effectively increases GDP expansion when nations show a minimum amount of TFP growth level. As a result, openness to trade and TFP development level tend to complement one another, with trade openness' influence on GDP growth increasing as the TFP growth level increases. Saidi, Mani, Mefteh, Shahbaz, and Akhtar (2020) look at the connections between FDI, transportation, logistics, and economic growth in developing nations between 2000 and 2016. The Middle East, North and South Africa, as well as East and South Asia, and the Pacific, make up the Eurasian nations. Using GMM estimators, we discovered that each of the underlying factors had a longterm impact on one another. In panels with varying degrees of significance, the causal link among each factor tended to alter in one direction. The infrastructure of transport and logistics is in charge of both FDI "attractiveness" plus steady economic stability, according to the results of empirical study. These findings are going to be of particular importance to managers in developing nations, assisting them in designing and creating cutting-edge transport and logistics systems as well as associated technological elements that might be beneficial for long-term economic growth and draw in foreign direct investment.

To analyze the effects of international tourist spending on Greenhouse gas emissions and per capita income, Zaman et al. (2017) focused on 11 transitional economies. They find that tourist spending is correlated with earnings from tourism, carbon dioxide emissions, and disposable income. The research identified a number of patterns, including energy-fueled emissions, investment-driven growth and emissions, and energy consumption driven by income and trade.

Likewise, Zuo and Huang (2018) examined the link between tourism specialization and economic growth and found that between 1995 and 2013, there was a significant association in 31 Chinese provinces. A study of US economic policy uncertainty's effect on carbon dioxide emissions by Wang, Xiao, and Lu (2020) between 1960 and 2016 finds that rising per capita income alongside higher economic uncertainty produces rising CO2 emissions.

Using long-run relationship analysis, Nepal, Paija, Tyagi and Harvie (2021) discovered a powerful long-run very sizeable association among India's energy manufacturing, CO2 emissions, and overseas immediate funding in their examination of energy safety in India. They also underscored the importance of FDI in facilitating energy-efficient technology and reducing carbon dioxide emissions. Findings from this research provide policy makers with new data as well as emphasize the importance of sustainable practices within both the tourist and energy sectors.

Puatwoe and Piabuo (2017) emphasize the considerable and favorable effects of financial growth on economic progress, which have already been studied by writers like Bagehot (1873) - Schumpeter (1911). These intriguing findings were obtained using the unit root, co-integration, and Granger causality tests. The findings of this investigation demonstrate that the model's variables were all incorporated in the same sequence. It also demonstrates the connection between the financial stability and expansion of the economy; the variables in the research have a long-term link. Additionally, in this study, unilateral correlations between variables were shown to exist. This indicates that through expanding the availability of money in the economy, enhancing the roles of financial companies and intermediaries, and enhancing the investment climate. This suggests that boosting the economy's money supply, enhancing the roles of banking institutions and middlemen, and enhancing the investment climate in Cameroon would encourage growth in the economy, which will finally result in economic development. Rahman et al. (2020) examine the connection between revenue growth and economic stability in Pakistan from 1975 to 2017 using the Markov Switching approach. The economic growth index was created using principal component analysis. Surprisingly, empirical study shows that Pakistan's financial development is harming both the high and low periods of economic growth. According to the research, growing the labor force greatly slows economic growth. Gross fixed capital development significantly quickens economic expansion. The findings indicate that the government may need to evaluate its financial advancement goals in order for the financial sector to favorably affect Pakistan's economic development. Additional efforts are consequently required to further liberalize the banking sector in order to boost Pakistan's economic growth.

Methodology

The link between financial development and sustainable development can be traced across various dimensions of economic activity. Firstly, Financial development plays a crucial role in economic growth, which

is an important component of sustainable development. Accessibility to finance encourages investment, innovation, and competition, important catalysts to economic growth.

Sound financial systems also are a powerful driver of inclusive growth, reducing poverty and widening the distribution of income. Second, sustainable development entails the achievement of environmental objectives like minimizing pollution, conserving natural resources, and safeguarding biodiversity.

Financial development can also promote investment in green technologies, research and development, as well as private sector efforts that support environmental objectives. Thirdly, social sustainability means making sure economic growth serves all, more specifically the most vulnerable ones in society. Financial development can also promote social sustainability through the reduction of income inequality. Any potential must be weighed up against the risks and challenges posed by financial development Exploitation of resources, and unsustainable and harmful business practices of financial institutions can damage the environment and hinder sustainable development. Moreover, the process of financial development can create an uneven playing field where resources become increasingly concentrated, undermining the advances made in poverty alleviation and access to services. These two interrelated fields which can feed off each other are sustainable development.

Variables	Dimensions	Acronym	Operationalization	sources
Sustainable development	1. Environmental sustainability	ENVS	Resource depilation rate Access	WDI
	2. Social sustainability	SS	to health care and education	WDI
	3. Economic sustainability	ECOS	GDP growth rate, employment rates, income distribution	WDI
Financial development	1. Financial System depth	FSD	The ratio of bank assets to GDP.	WDI
	2. Financial system efficiency	FSE	The ratio of bank assets to GDP, speed of financial transaction.	WDI
	3. Financial system stability	FSS	Non-performance loan, Level of financial regulation.	WDI
Control variables	1. Economy growth	GDPPC	Income level	WDI
	2. Foreign direct investment	FDI	Inflow (% of GDP)	WDI
	3. Trade	TRAE	Trade (% of GDP)	WDI

Operationalization of Variables

Baseline Equation

The baseline equation for the relationship between sustainable development on financial development and the control variables are

 $SD=\beta_0+\beta_1FD+\beta_2EG+\beta_3FDI+\beta_4Trade+\epsilon$

Where:

SD is sustainable development

 β_o is the intercept term representing the baseline LEVEL of SD when FD and all the CV are zero β 1 is the coefficient of FD

 β 2 is the coefficient representing the impact of economic growth on SD

 β 3 is the coefficient representing the impact of foreign direct investment on SD

 β 4 is the coefficient representing the impact of trade on SD.

 ϵ is the error representing the unexplained variation in SD.

The baseline equation allows us to estimate the impact of FD and CV on SD

They operate under the presumption that sustainable development has an impact on financial development. The control variable economy growth, foreign direct investment, and trade may also create an indirect impact on FD. Expanding the scope of this indicator can reveal a strong correlation. A country's financial development may improve with further advancements in sustainable development. And the phrase used to define systematic risk is the error term.

Data Analytics

This chapter sheds information on statistical and theoretical structure. To record the outcomes, several data analysis techniques are used. It discusses the connections or relationships between financial development and sustainable development. The data for statistical analysis has been collected from WBI of South Asian countries for the period of 2009-2021.

Table 1

Descriptive Statistics

Beschpure statist					
Variable	Obs	Mean	Std. Dev.	Min	Max
env sus	169	2.18	2.411	0	8.441
SOC SUS	169	13.929	21.193	1.511	99.739
eco sus	169	4.18	6.287	-33.493	41.745
fd	169	60.022	35.784	2.981	166.325
fss	169	6.518	5.704	1.157	49.901
eg	169	5538.9	9027.025	390	44520
fdi	169	3.05	3.928	-1.321	17.133

The analysis of subject variables in term of descriptive statistics is presented in tabulated form. Average value shows that sustainable development may financial development among observed countries during last 13 year. It is evident from descriptive values of mean and median which are differed and showing that data is skewed at all level.

The first column of the table represents the variable name. And the other represents the number of the observation, mean, standard deviation, minimum value, maximum value. The total number of observations are 169. The mean of environmental sustainability is 2.18, SD is 2.411 the min value between the observations is 0 and the max value is 8.441.

The mean value of social sustainability with dispersion of value 2.411 and its value ranges from minimum 1.511 percent to maximum 99.739. This mean value indicates the moderate level of effective governance and having the highest volatility.

Table 2

Matrix of Correlations

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)
(1)	1.000						
env_sus							
(2) soc_sus	0.074	1.000					
(3) eco_sus	0.115	0.021	1.000				
(4) fd	0.498	-0.083	-0.120	1.000			
(5) fss	0.296	0.473	0.001	-0.522	1.000		
(6) eg	0.477	0.156	-0.320	0.124	-0.114	1.000	
(7) fdi	0.178	0.356	0.175	0.139	-0.068	0.048	1.000

A statistical indicator of the strength of a linear link between two variables is the correlation coefficient. In both science and finance, correlation coefficients are used to measure the degree of relationship between two variables, factors, or data sets. Correlation coefficients are listed in tabulated form in Table 3. In coefficient analysis, most of variables have shown statistical significance and multicollinearity factors are absent. This table consists of correlation matrix among environmental sustainability (resource depilation rate), social sustainability (access to health care and education), economic sustainability (GDP growth rate, employment rates, income distribution), financial system depth (Ratio of bank assets to GDP), financial system efficacy (the ratio of bank assets to GDP, speed of financial transaction), financial system stability (Non-performance loan), economy growth (income level), foreign direct investment (Inflow % of GDP), trade (% of GDP). The correlation relation of sustainability is 0.074 correlated with environmental sustainability, financial development is .498 correlated with environmental sustainability, financial development is .498 correlated with environmental sustainability change in sustainable development may have an impact on financial development.

The first column of the table represents the variable name. And the other represents the number of the observation, mean, standard deviation, minimum value, maximum value. The total number of observations are 169. The mean of environmental sustainability is 2.18, SD is 2.411 the min value between the observations is 0 and the max value is 8.441.

The beginning table shows a correlation between sustainable development and other variables the result indicates a value of 1.000 suggesting a perfect positive correlation between development sand itself. The value 0.390 indicates a positive correlation between sustainable development and sustainable development. Both (SD and FD) are the move in the same direction. The correlation between env sus is positively correlated with fd, which we will now discuss, is found to be positively 0.498. However, the correlation between fss and eco sus, is -0.083. This negative correlation reveals a negative association between environmental

sustainability and financial development. The correlation coefficient, on the other hand, is close to zero, indicating a weak connection. The coefficient is nearly zero, though, just like the prior connection, showing a tenuous association.

This table shows that there is a positive correlation between sustainable development and financial development. The positive change in sustainable development may cause positive change in financial development.

Table 3

Variables	env_sus	env_sus	env_sus	soc_sus	soc_sus	soc_sus	eco_sus	eco_sus	eco_sus
	OLS	Random	Fixed	OLS	Random	Fixed	OLS	Random	Fixed
fd	0.0254***	0.00582*	0.00736* *	0.0920**	0.0206**	0.0211**	0.0184***	0.0185***	0.0725**
	(0.00618)	(0.00317)	(0.00317)	(0.0445)	(0.00963)	(0.00915)	(0.0012)	(0.0018)	(0.0328)
fss	0.00334	0.0179	0.0141	3.165***	0.136*	0.145*	0.105	-0.1035	-0.147
	(0.0351)	(0.0254)	(0.0252)	(0.664)	(0.0773)	(0.0734)	(0.0862)	(0.167)	(0.260)
eg	0.000435** *	0.00033* *	0.0095	0.000551* *	0.0083** *	- 0.000101	0.00137** *	0.00137** *	0.000174
	(0.0001)	(0.0002)	(0.0090)	(0.000262)	(0.00016 4)	(0.00016 1)	(0.0002)	(0.0006)	(0.00034 2)
FDI	0.151***	0.0123	0.00256	1.997***	0.137	0.117	0.0944	0.0944	0.567
	(0.0246)	(0.0441)	(0.0466)	(0.604)	(0.157)	(0.150)	(0.180)	(0.133)	(0.481)
Constant	-0.00900	1.733***	1.898***	-19.23***	17.28***	14.65***	6.979***	6.979***	11.01***
	(0.590)	(0.584)	(0.374)	(6.197)	(6.395)	(1.041)	(1.293)	(2.066)	(3.863)
R-squared	0.481		0.069	0.431		0.097	0.056		0.064
F-Stats (P value)	0.000		0.000	0.000		0.000	0.000		0.000
Wald Stats (P value)		0.000			0.000			0.000	
Observations	169	169	169	169	169	169	169	169	169
Number of ids	13	13	13	13	13	13	13	13	13

Impact of Financial Development on Sustainable Development

Robust standard errors in parentheses, *** p<0.01, ** p<0.05, * p<0.1

OLS (Ordinary Least Squares) is a basic linear regression model that assumes a linear relationship between the dependent variable and the independent variables. It estimates the coefficients by minimizing the sum of squared residuals. The coefficient for Fd is 0.0254 with three asterisks (***) indicating statistical significance at the 1% level. This means that a one-unit increase in Fd is associated with a 0.0254 unit increase in the dependent variable. The standard error of this coefficient is 0.00618.

Random Effect Model is a panel data regression model that accounts for unobserved heterogeneity across individual units (e.g., countries) by assuming random effects. It allows the coefficients to vary across different units. The coefficient for Fd is 0.00582 with one asterisks (*) indicating statistical significance at the 10% level. A one-unit increase in Fd is associated with a 0.00582 unit increase in the dependent variable. The standard error of this coefficient is 0.00317.

Fixed Effect Model is also a panel data regression model that addresses unobserved heterogeneity by including fixed effects for each individual unit. It assumes that the coefficients of the independent variables are constant across different units. The coefficient for Fd is 0.00736 with three asterisks (**) indicating

statistical significance at the 5% level. A one-unit increase in Fd is associated with a 0.00736 unit increase in the dependent variable. The standard error of this coefficient is 0.00317.

With coefficient values of 0.0058 and 0.026 for inclusive finance, the estimated results from OLS and Random-GLS imply that there is a beneficial impact on sustainable development and financial development. As a result, the first hypothesis is accepted. These findings supported the earlier debates. The value of financial development will increase by 0.0058 and 0.026 units for every unit increase in the value of sustainable development. Thus, long-term sustainable growth could be achieved through growing banking infrastructure and services. By allocating funds wisely, utilizing savings in a productive way, and minimizing risks, effective and healthy financial services promote economic growth. Numerous studies examine the relationship between the financial markets, the role of financial intermediaries, financing accessibility, and the effectiveness of the financial markets.

The influence of sustainable development on financial development is shown by this model. The findings indicate that there is a positive association between economic development and financial sustainability, with positive correlations of 0.004 for OLS and Random-GLS, respectively, suggesting a potentially favorable impact on financial development Baltagi and Kao (2000). These findings are consistent with earlier research. The financial sector is one of the most crucial sectors of government action, and it is constantly improving and developing Ahmed, Kousar, Pervaiz, and Shabbir (2022).

Conclusion

This study used a sample of South Asian nations from 2009 to 2021 to examine the effect of financial development on sustainable economic growth. Utilizing the OLS regression approach, the impact of financial development on long-term economic growth is assessed. The study's objective is to examine how sustainable development and financial development are related. The results demonstrate that sustainable development could boost economic expansion. This study will assist policymakers in better concentrating their efforts on the transformation of the financial system to support financial inclusiveness.

During this period, other economies saw a halt in their growth, while Asian nations filled these gaps with their economic potential. Therefore, any improvement in growth and its outcomes in the form of advantages might have benefitted one or two generations. Regulatory authorities may assure and concentrate on the affordability for the customer and sustainability for the provider in order to go beyond the informal sector and include the low-income portion of society. Importantly, it is extremely difficult to distinguish between users and non-user person surviving since users who are involuntarily removed are included in the nonuser group. The findings of this study provide developing nations with a strong foundation upon which to construct their strategies to expand the scope of an inclusive economy, eradicate poverty through development funding, and successfully eradicate poverty. According to empirical evidence, society's financial development fosters progress and eradicates poverty.

Due to the fact that this analysis only covers data from 2009 to 2021, it has several limitations. The link between financial development and sustainable economic growth may be impacted by economic and financial developments that take place outside the specific research's purview. External shocks, worldwide financial

crises, or economic spillover from neighboring economies may have an impact on the findings and restrict their applicability.

This study conducted on the impact of financial development on sustainable development. Further research can be conducted along similar lines and their focus should be green finance, restructuring financial setup and ensuring sustainable economic growth. Moreover, the role of the governance level and its impact on economic growth and financial development can also be explored.

For long-term economic growth, the positive outcome of sustainable development is crucially associated with the development of the financial sector. Saving mobilization is another factor with a profound impact on the economy via financial development.

In a sophisticated monetary system, individuals and businesses can channel their savings towards impactful endeavors like sustainable ventures, renewable energy initiatives, and infrastructural enhancements. The efficacy of capital allocation is significantly heightened by a robust financial system, fostering the seamless transfer of funds from savers to borrowers while enabling investments in ventures with enduring profitability. This dynamic allocation bolsters industries poised for sustained long-term growth. The underpinning of risk management is another pivotal facet of a sophisticated financial ecosystem, affording access to an array of tools such as insurance, derivatives, and hedging mechanisms. These mechanisms mitigate perceived risks inherent in environmentally conscious investments, stimulating increased engagement in ecologically beneficial projects. Crucially, strides in financial progress nurture a long-term investment perspective, necessitated by the financing demands of sustainable projects with extended gestation periods. Through the provision of diverse long-term financing options, such as bonds, venture capital, and private equity, enterprises are empowered to make substantial investments in sectors like clean technology, renewable energy, and sustainable infrastructure. By extending access to financial services, financial development fosters inclusivity, encompassing savings accounts, credit lines, insurance, and investment avenues. This expansion of financial inclusivity empowers marginalized groups and individuals to actively participate in economic activities, contribute to sustainable initiatives, and partake in the holistic growth of the economy.

References

- Ahmed, F., Kousar, S., Pervaiz, A., & Shabbir, A. (2022). Do institutional quality and financial development affect sustainable economic growth? Evidence from South Asian countries. *Borsa Istanbul Review, 22*(1), 189-196. <u>https://doi.org/10.1016/j.bir.2021.03.005</u>
- Armendariz, & Morduch, J. (2009). The Economics of Microfinance. Journal of Asia-Pacific Business, 10.
- Baltagi, B. H., & Kao, C. (2000). Nonstationary panels, cointegration in panels and dynamic panels: A survey. *Advances in Econometrics*, 7-51. <u>https://doi.org/10.1016/s0731-9053(00)15002-9</u>
- Bank, W. (2018). Global Financial Development Report 2017 2018. https://doi.org/10.1596/978-1-4648-1148-7
- Batten, S., Sowerbutts, R., & Tanaka, M. (2016). *Let's talk about the weather: the impact of climate change on central banks*. <u>https://dx.doi.org/10.2139/ssrn.2783753</u>
- Beck, T., & Levine, R. (2003). Legal Institutions and Financial Development. *Handbook of New Institutional Economics*, 251–278. <u>https://doi.org/10.1007/0-387-25092-1_12</u>
- Beck, T., Levine, R., & Loayza, N. V. (2000). Financial intermediation and growth: Causality and causes. *Journal of Monetary Economics*, 46(1), 31-77. <u>https://doi.org/10.1016/s0304-3932(00)00017-9</u>
- Cihák, M., Demirgüç-Kunt, A., Feyen, E., & Levine, R. (2012). Benchmarking financial systems around the world. *Policy Research Working Papers*. <u>https://doi.org/10.1596/1813-9450-6175</u>
- Demirguc-Kunt, A., & Klapper, L. (2012). Measuring financial inclusion: The global Findex database. *Policy Research Working Papers*. <u>https://doi.org/10.1596/1813-9450-6025</u>
- Nepal, R., Paija, N., Tyagi, B., & Harvie, C. (2021). Energy security, economic growth and environmental sustainability in India: Does FDI and trade openness play a role? *Journal of Environmental Management, 281*, 111886. <u>https://doi.org/10.1016/j.jenvman.2020.111886</u>
- Puatwoe, J. T., & Piabuo, S. M. (2017). Financial sector development and economic growth: Evidence from Cameroon. *Financial Innovation, 3*(1). <u>https://doi.org/10.1186/s40854-017-0073-x</u>
- Rahman, A., Khan, M. A., & Charfeddine, L. (2020). Does the financial sector promote economic growth in Pakistan? Empirical evidences from Markov switching model. *Sage Open*, *10*(4). <u>https://doi.org/10.1177/2158244020963064</u>
- Ramzan, M., Sheng, B., Shahbaz, M., Song, J., & Jiao, Z. (2019). Impact of trade openness on GDP growth: Does TFP matter? *The Journal of International Trade & Economic Development, 28*(8), 960-995. <u>https://doi.org/10.1080/09638199.2019.1616805</u>
- Saidi, S., Mani, V., Mefteh, H., Shahbaz, M., & Akhtar, P. (2020). Dynamic linkages between transport, logistics, foreign direct investment, and economic growth: Empirical evidence from developing countries. *Transportation Research Part A: Policy and Practice*, 141, 277-293. <u>https://doi.org/10.1016/i.tra.2020.09.020</u>
- Wang, Q., Xiao, K., & Lu, Z. (2020). Does economic policy uncertainty affect CO2 emissions? Empirical evidence from the United States. *Sustainability*, *12*(21), 9108. <u>https://doi.org/10.3390/su12219108</u>
- Zaman, K., Moemen, M. A., & Islam, T. (2017). Dynamic linkages between tourism transportation expenditures, carbon dioxide emission, energy consumption and growth factors: Evidence from the transition economies. *Current Issues in Tourism, 20*(16), 1720-1735. https://doi.org/10.1080/13683500.2015.1135107
- Zuo, B., & Huang, S. (. (2017). Revisiting the tourism-led economic growth hypothesis: The case of China. *Journal of Travel Research*, *57*(2), 151-163. <u>https://doi.org/10.1177/0047287516686725</u>